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Broward College Locations

A. HUGH ADAMS
CENTRAL CAMPUSS
3501 Southwest Davie Road
Davie, Florida 33314
954 201 6865

NORTH CAMPUS
1000 Coconut Creek Boulevard
Coconut Creek, Florida 33066
954 201 2240

JUDSON A. SAMUELS
SOUTH CAMPUS
7200 Hollywood Pines Boulevard
Pembroke Pines, Florida 33024
954 201 8835

WILLIS HOLCOMBE
DOWNTOWN CENTER
College Administration Offices
111 East Las Olas Boulevard
Fort Lauderdale, Florida 33301
954 201 7491

PINES CENTER
16957 Sheridan Street
Pembroke Pines, Florida 33331
954 201 3601

WESTON CENTER
4205 Bonaventure Boulevard
Weston, Florida 33332
954 201 8501

MAROONE AUTOMOTIVE
AND MARINE CENTER AT
BC MIRAMAR
7451 Riviera Boulevard
Miramar, FL 33023
954 201 8601

MIRAMAR TOWN CENTER
2050 Civic Center Place
Miramar, FL 33025
954 201 8660

TIGERTAIL LAKE
RECREATIONAL CENTER
580 Gulfstream Way
Dania Beach, FL 33004
954 201 4500

CORAL SPRINGS ACADEMIC CENTER
(Opens 2012- This Center will specialize in
degrees and certificates leading to high wage,
high demand careers.)
9441 W. Sample Rd.
954-201-2905

ACCREDITATION
Broward
College is accredited by The
Commission on Colleges of the
Southern Association of Colleges and Schools
(1866 Southern Lane, Decatur, GA 30033-4097:
Telephone Number 404 679 4500: www.sacs.org)
To award Associate and Baccalaureate Degrees

MEMBER OF:
American Association of Community Colleges
American Association for Higher Education
American Council on Education
American Technical Education Association, Inc.
Association of Community College Trustees
Association of Governing Boards
College Consortium for International Studies
College Entrance Examination Board Florida
Association of Colleges and Universities Florida
Association of Community Colleges National
Association of Foreign Student Affairs
Southern Association of Colleges and Schools
Southern Association of Community and Junior Colleges

Broward College is an equal access/equal opportunity institution. Students with documented disabilities are assured participation
in all college activities and services. Registrants seeking accommodations should contact the Campus Office of Disability Services
at least two weeks prior to the first class session. This information is available in alternative format upon request.

This document is prepared and presented as an informational guide only. Course offerings, fee schedules and other
representations provided are not controlling and are subject to change, amendment, or deletion by the College as deemed
appropriate. The information is taken from Board Policies and Procedures. These sources can be accessed online at
www.broward.edu.

NOTE: BC APPLICATION IS ONLINE AT WWW.BROWARD.EDU
Welcome to Broward College!

Choosing to further your education is a very important decision. On behalf of our District Board of Trustees and our faculty and staff, I’m delighted to welcome you to Broward College.

Southeastern Florida offers many places to earn a higher education. We are pleased you have made the decision to become a Broward College student. Our faculty and staff are committed to doing all we can to provide the best in instruction and all the support you need to succeed.

Whether you are working toward an associate or baccalaureate degree, developing a marketable skill, or taking classes for personal enrichment, we’re here to help you achieve your educational, career and personal goals.

We believe everyone deserves the opportunity to earn a college degree. For more than a half century, Broward has helped our students earn a quality, affordable education at locations near where they live and work.

So once again, welcome to Broward College. I look forward to seeing you on campus.

Sincerely,

J. David Armstrong, Jr.,
President
REGISTRATION DATES

Term I (20121)
Term II (20122)
Term III (20123)

ACADEMIC CALENDARS

Term I (20121)
Term II (20122)
Term III (20123)

BACCALAUREATE PROGRAMS

Term I (20121)
Term II (20122)
Term III (20123)

WEEKEND COLLEGE

INTERNATIONAL STUDENT ADMISSION DEADLINES

FINAL EXAMINATION SCHEDULE
## TERM REGISTRATION DATES

### TERM I (20121)

<table>
<thead>
<tr>
<th>Term</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADUATION CANDIDATES*, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY</td>
<td>Aug 18-Dec 12</td>
<td>Aug 18-Oct 12</td>
<td>Sept 6-Dec 4</td>
<td>Oct 18-Dec 12</td>
</tr>
<tr>
<td>GRADUATION CANDIDATES*, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY</td>
<td>May 18-Aug 17</td>
<td>May 18-Aug 17</td>
<td>May 18-Sept 5</td>
<td>May 18-Oct 17</td>
</tr>
<tr>
<td>CONTINUING, NEW AND RE-ENTRY STUDENTS</td>
<td>May 24-Aug 17</td>
<td>May 24-Aug 17</td>
<td>May 24-Sept 5</td>
<td>May 24-Oct 17</td>
</tr>
<tr>
<td>DUAL ENROLLED</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STATE EMPLOYEE WAIVER</td>
<td>Aug 17</td>
<td>Aug 17</td>
<td>Sept 2</td>
<td>Oct 17</td>
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### TERM 2 (20122)

<table>
<thead>
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<th>Session III</th>
<th>Session IV</th>
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</thead>
<tbody>
<tr>
<td>GRADUATION CANDIDATES*, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY</td>
<td>Oct 4-Jan 4</td>
<td>Oct 4-Jan 4</td>
<td>Oct 4-Jan 22</td>
<td>Oct 4-Mar 11</td>
</tr>
<tr>
<td>CONTINUING, NEW AND RE-ENTRY STUDENTS</td>
<td>Oct 5-Jan 4</td>
<td>Oct 5-Jan 4</td>
<td>Oct 5-Jan 22</td>
<td>Oct 5-Mar 11</td>
</tr>
<tr>
<td>DUAL ENROLLED</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A – F</td>
<td>Dec 1-Jan 4</td>
<td>Dec 1-Jan 4</td>
<td>Dec 1-Jan 22</td>
<td>Dec 1-Mar 11</td>
</tr>
<tr>
<td>G – L</td>
<td>Dec 6-Jan 4</td>
<td>Dec 6-Jan 4</td>
<td>Dec 6-Jan 22</td>
<td>Dec 6-Mar 11</td>
</tr>
<tr>
<td>M – R</td>
<td>Dec 9-Jan 4</td>
<td>Dec 9-Jan 4</td>
<td>Dec 9-Jan 22</td>
<td>Dec 9-Mar 11</td>
</tr>
<tr>
<td>S – Z</td>
<td>Dec 14-Jan 4</td>
<td>Dec 14-Jan 4</td>
<td>Dec 14-Jan 22</td>
<td>Dec 14-Mar 11</td>
</tr>
<tr>
<td>STATE EMPLOYEE WAIVER</td>
<td>Jan 4</td>
<td>Jan 4</td>
<td>Jan 20</td>
<td>Mar 2</td>
</tr>
</tbody>
</table>

### TERM 3 (20123)

<table>
<thead>
<tr>
<th>Term</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADUATION CANDIDATES*, HONORS, HEALTH SCIENCE, BACHELORS, COLLEGE ACADEMY</td>
<td>Mar 15-May 6</td>
<td>Mar 15-May 6</td>
<td>Mar 15-June 24</td>
</tr>
<tr>
<td>CONTINUING, NEW AND RE-ENTRY STUDENTS</td>
<td>Mar 28-May 6</td>
<td>Mar 28-May 6</td>
<td>Mar 28-June 24</td>
</tr>
<tr>
<td>DUAL ENROLLED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A – F</td>
<td>Mar 28-May 6</td>
<td>Mar 28-May 6</td>
<td>Mar 28-June 24</td>
</tr>
<tr>
<td>STATE EMPLOYEE WAIVER</td>
<td>May 6</td>
<td>May 6</td>
<td>June 22</td>
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</table>

* Special registration for students within 15 hours (or less) of degree completion.
### ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSES BEGIN</td>
<td>Aug 18</td>
<td>Aug 18</td>
<td>Sept 6</td>
<td>Oct 18</td>
</tr>
<tr>
<td>WEEKEND COLLEGE CLASSES BEGIN*</td>
<td>Aug 19</td>
<td>Aug 19</td>
<td>Sept 9</td>
<td>Oct 21</td>
</tr>
<tr>
<td>LAST DAY TO DROP FOR 100% REFUND**</td>
<td>Aug 25</td>
<td>Aug 23</td>
<td>Sept 13</td>
<td>Oct 20</td>
</tr>
<tr>
<td>ATTENDANCE VERIFICATION BEGINS</td>
<td>Aug 26</td>
<td>Aug 24</td>
<td>Sept 14</td>
<td>Oct 21</td>
</tr>
<tr>
<td>LAST DAY TO DROP FOR 100% REFUND WEEKEND COLLEGE*</td>
<td>Aug 22</td>
<td>Aug 22</td>
<td>Sept 12</td>
<td>Oct 24</td>
</tr>
<tr>
<td>HOLIDAY (Labor Day)</td>
<td>Sept 5</td>
<td>Sept 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Fall Holiday)</td>
<td>Sept 29</td>
<td>Sept 29</td>
<td>Sept 29</td>
<td></td>
</tr>
<tr>
<td>MIDTERM</td>
<td>Oct 13</td>
<td>Sept 14</td>
<td>Oct 18</td>
<td>Nov 14</td>
</tr>
<tr>
<td>LAST DAY TO WITHDRAW FROM ANY CLASS</td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td>LAST DAY TO CHANGE FROM CREDIT TO AUDIT***</td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td>HOLIDAY (Veterans Day)</td>
<td>Nov 11</td>
<td>Nov 11</td>
<td>Nov 11</td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Thanksgiving)</td>
<td>Nov 23</td>
<td>Nov 23</td>
<td>Nov 23</td>
<td>Nov 23</td>
</tr>
<tr>
<td></td>
<td>Nov 24-27</td>
<td>Nov 24-27</td>
<td>Nov 24-27</td>
<td>Nov 24-27</td>
</tr>
<tr>
<td>LAST DAY OF CLASSES</td>
<td>Dec 12</td>
<td>Oct 12</td>
<td>Dec 4</td>
<td>Dec 12</td>
</tr>
<tr>
<td>FINAL EXAMINATIONS</td>
<td>Dec 6-12</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
</tr>
<tr>
<td>GRADUATION</td>
<td>Dec 13</td>
<td>Oct 13</td>
<td>Dec 13</td>
<td>Dec 13</td>
</tr>
<tr>
<td></td>
<td>Dec 14</td>
<td>Dec 14</td>
<td>Dec 14</td>
<td>Dec 14</td>
</tr>
</tbody>
</table>

* Weekend College has a separate Calendar on Page 12.
** Last day to withdraw from College Prep Classes and not have enrollment in class counted as an attempt.
*** Students wishing to change from credit to audit, after the drop period has ended, must receive instructor permission. This will also count as an attempt in that subject area.

International Students should refer to Page 13 for additional information regarding Admission Deadlines.

College Offices will be closed from December 19, 2011 through January 1, 2012. Limited on-campus services may be provided. Registration on the Web will be available except December 25, 2011 and January 1, 2012.

NOTE: Session 1 Friday evening, Saturday, and Sunday classes will have final examinations on December 9-11, 2011.

NOTE: Refunds permitted if withdrawals are done prior to the second class meeting for short courses that meet less than eight weeks.
<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASSES BEGIN</strong></td>
<td>Jan 5</td>
<td>Jan 5</td>
<td>Jan 23</td>
<td>Mar 12</td>
</tr>
<tr>
<td><strong>WEEKEND COLLEGE CLASSES BEGIN</strong>*</td>
<td>Jan 6</td>
<td>Jan 6</td>
<td>Jan 27</td>
<td>Mar 16</td>
</tr>
<tr>
<td><strong>LAST DAY FOR DROP AND</strong></td>
<td>Jan 12</td>
<td>Jan 10</td>
<td>Jan 27</td>
<td>Mar 14</td>
</tr>
<tr>
<td><strong>LAST DAY FOR 100% REFUND</strong></td>
<td>Jan 13</td>
<td>Jan 11</td>
<td>Jan 30</td>
<td>Mar 15</td>
</tr>
<tr>
<td><strong>ATTENDANCE VERIFICATION BEGINS</strong></td>
<td>Jan 16</td>
<td>Jan 16</td>
<td></td>
<td></td>
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<tr>
<td><strong>LAST DAY TO DROP FOR 100%</strong></td>
<td>Jan 9</td>
<td>Jan 9</td>
<td>Jan 30</td>
<td>Mar 19</td>
</tr>
<tr>
<td><strong>REFUND FOR WEEKEND COLLEGE</strong>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Martin L. King, Jr. Birthday)</strong></td>
<td>Jan 16</td>
<td>Jan 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PROFESSIONAL DEVELOPMENT DAY</strong></td>
<td>Feb 24</td>
<td>Feb 24</td>
<td>Feb 24</td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Spring Break)</strong></td>
<td>Mar 5-11</td>
<td>Mar 5-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MIDTERM</strong></td>
<td>Mar 1</td>
<td>Feb 2</td>
<td>Mar 2</td>
<td>Apr 5</td>
</tr>
<tr>
<td><strong>LAST DAY TO WITHDRAW FROM ANY CLASS</strong></td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td><strong>LAST DAY TO CHANGE FROM CREDIT TO AUDIT</strong>*</td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td><strong>LAST DAY OF CLASSES</strong></td>
<td>May 2</td>
<td>Feb 29</td>
<td>Apr 20</td>
<td>May 2</td>
</tr>
<tr>
<td><strong>FINAL EXAMINATIONS</strong></td>
<td>Apr 26-May 2</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
</tr>
<tr>
<td><strong>GRADES DUE BY 3:00 PM</strong></td>
<td>May 3</td>
<td>March 1</td>
<td>May 3</td>
<td>May 3</td>
</tr>
<tr>
<td><strong>GRADUATION</strong></td>
<td>May 4</td>
<td>May 4</td>
<td>May 4</td>
<td>May 4</td>
</tr>
</tbody>
</table>

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** Last day to withdraw from College Prep Classes and not have enrollment in class counted as an attempt.
*** Students wishing to change from credit to audit after the drop period has ended, must receive instructor permission. This will also count as an attempt in that subject area.

International Students should refer to Page 13 for additional information regarding Admission Deadlines.

College Offices will be closed from December 19, 2011 through January 1, 2012. Limited on-campus services may be provided. Registration on the Web will be available except December 25, 2011 and January 1, 2012.

**NOTE:** SESSION 1 Friday evening, Saturday and Sunday classes will have final exams on April 27 - April 29, 2012.

**NOTE:** Refunds permitted if withdrawals are done prior to the second class meeting for short courses that meet less than eight weeks.
# ACADEMIC CALENDAR

## TERM III (20123)

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSES BEGIN</td>
<td>May 7</td>
<td>May 7</td>
<td>Jun 25</td>
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<tr>
<td>WEEKEND COLLEGE CLASSES BEGIN*</td>
<td>May 11</td>
<td>May 11</td>
<td>Jun 29</td>
</tr>
<tr>
<td>LAST DAY FOR DROP AND</td>
<td>May 11</td>
<td>May 9</td>
<td>June 27</td>
</tr>
<tr>
<td>LAST DAY FOR 100% REFUND**</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATTENDANCE VERIFICATION BEGINS</td>
<td>May 14</td>
<td>May 10</td>
<td>June 28</td>
</tr>
<tr>
<td>LAST DAY TO DROP FOR 100% REFUND FOR</td>
<td>May 14</td>
<td>May 14</td>
<td>July 2</td>
</tr>
<tr>
<td>WEEKEND COLLEGE*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Memorial Day)</td>
<td>May 28</td>
<td>May 28</td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Summer Break)</td>
<td></td>
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<tr>
<td>MIDTERM</td>
<td>Jun 19</td>
<td>May 29</td>
<td>July 16</td>
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<tr>
<td>LAST DAY TO DROP FOR 100% REFUND FOR</td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td>ANY CLASS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAST DAY TO CHANGE FROM CREDIT TO AUDIT***</td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td>HOLIDAY (Independence Day)</td>
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<tr>
<td>LAST DAY OF CLASSES</td>
<td>Aug 6</td>
<td>Jun 19</td>
<td>Aug 6</td>
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<td>FINAL EXAMINATIONS</td>
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<tr>
<td></td>
<td>Meeting</td>
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<tr>
<td>GRADES DUE BY NOON</td>
<td>Aug 7</td>
<td>Jun 20</td>
<td>Aug 7</td>
</tr>
</tbody>
</table>

Alternate Friday classes are divided as follows:

**Session 2**
Monday and Wednesday classes will meet on May 11, May 25, and June 8, 2012.
Tuesday and Thursday classes will meet on May 18, June 1, and June 15, 2012.

**Session 3**
Monday and Wednesday classes will meet on June 29, July 13, and July 27, 2012.
Tuesday and Thursday classes will meet on July 6, July 20, and August 3, 2012.

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*** Students wishing to change from credit to audit after the drop period has ended, must receive instructor permission. This will also count as an attempt in that subject area.

International Students should refer to Page 13 for additional information regarding Admission Deadlines.
# Baccalaureate Programs

## Academic Calendar

### Term I (2021)

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASSES BEGIN</strong></td>
<td>Aug 18</td>
<td>Aug 18</td>
<td>Sept 6</td>
<td>Oct 18</td>
</tr>
<tr>
<td><strong>LAST DAY FOR DROP AND LAST DAY FOR 100% REFUND</strong></td>
<td>Aug 25</td>
<td>Aug 23</td>
<td>Sept 13</td>
<td>Oct 20</td>
</tr>
<tr>
<td><strong>ATTENDANCE VERIFICATION BEGINS</strong></td>
<td>Aug 26</td>
<td>Aug 24</td>
<td>Sept 14</td>
<td>Oct 21</td>
</tr>
<tr>
<td><strong>HOLIDAY (Labor Day)</strong></td>
<td>Sep 5</td>
<td>Sep 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Fall Holiday)</strong></td>
<td>Sep 29</td>
<td>Sept 29</td>
<td>Sept 29</td>
<td></td>
</tr>
<tr>
<td><strong>MIDTERM</strong></td>
<td>Oct 13</td>
<td>Sept 14</td>
<td>Oct 18</td>
<td>Nov 14</td>
</tr>
<tr>
<td><strong>LAST DAY TO WITHDRAW FROM ANY CLASS</strong></td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td><strong>LAST DAY TO CHANGE FROM CREDIT TO AUDIT</strong></td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td><strong>HOLIDAY (Veterans Day)</strong></td>
<td>Nov 11</td>
<td>Nov 11</td>
<td>Nov 11</td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Thanksgiving)</strong></td>
<td>Nov 23</td>
<td>Nov 23</td>
<td>Nov 23</td>
<td>Nov 23</td>
</tr>
<tr>
<td><strong>LAST DAY OF CLASSES</strong></td>
<td>Dec 12</td>
<td>Oct 12</td>
<td>Dec 4</td>
<td>Dec 12</td>
</tr>
<tr>
<td><strong>FINAL EXAMINATIONS</strong></td>
<td>Dec 6-12</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
</tr>
<tr>
<td><strong>GRADES DUE BY 3:00 PM</strong></td>
<td>Dec 13</td>
<td>Dec 13</td>
<td>Oct 13</td>
<td>Dec 13</td>
</tr>
<tr>
<td><strong>GRADUATION</strong></td>
<td>Dec 14</td>
<td>Dec 14</td>
<td>Dec 14</td>
<td>Dec 14</td>
</tr>
</tbody>
</table>

**NOTE:** College Offices will be closed from December 19, 2011 through January 2, 2012. Registration on the Web will be available except December 25, 2011 and January 1, 2012.

### Term II (2022)

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASSES BEGIN</strong></td>
<td>Jan 5</td>
<td>Jan 5</td>
<td>Jan 23</td>
<td>Mar 12</td>
</tr>
<tr>
<td><strong>LAST DAY FOR DROP AND LAST DAY FOR 100% REFUND</strong></td>
<td>Jan 12</td>
<td>Jan 10</td>
<td>Jan 27</td>
<td>Mar 14</td>
</tr>
<tr>
<td><strong>ATTENDANCE VERIFICATION BEGINS</strong></td>
<td>Jan 13</td>
<td>Jan 11</td>
<td>Jan 30</td>
<td>Mar 15</td>
</tr>
<tr>
<td><strong>HOLIDAY (Martin L. King, Jr. Birthday)</strong></td>
<td>Jan 16</td>
<td>Jan 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NO DAY OR EVENING CLASSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## TERM II (20122) Continued

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROFESSIONAL DEVELOPMENT DAY</strong></td>
<td>Jan 5-May 2</td>
<td>Jan 5-Feb 29</td>
<td>Jan 23-Apr 20</td>
<td>Mar 12-May 2</td>
</tr>
<tr>
<td>No day classes. Evening classes only at 5pm</td>
<td>Feb 24</td>
<td>Feb 24</td>
<td>Feb 24</td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Spring Break)</strong></td>
<td>Mar 5-11</td>
<td>Mar 5-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MIDTERM</strong></td>
<td>Mar 1</td>
<td>Feb 2</td>
<td>Mar 2</td>
<td>Apr 5</td>
</tr>
<tr>
<td><strong>LAST DAY TO WITHDRAW FROM ANY CLASS</strong></td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td><strong>HOLIDAY (Spring Break)</strong></td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td><strong>LAST DAY TO CHANGE FROM CREDIT TO AUDIT</strong></td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td><strong>LAST DAY OF CLASSES</strong></td>
<td>May 2</td>
<td>Feb 29</td>
<td>Apr 20</td>
<td>May 2</td>
</tr>
<tr>
<td><strong>FINAL EXAMINATIONS</strong></td>
<td>Apr 26-May 2</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
</tr>
<tr>
<td><strong>GRADES DUE BY 3:00 PM</strong></td>
<td>May 3</td>
<td>March 1</td>
<td>May 3</td>
<td>May 3</td>
</tr>
<tr>
<td><strong>GRADUATION</strong></td>
<td>May 4</td>
<td>May 4</td>
<td>May 4</td>
<td>May 4</td>
</tr>
</tbody>
</table>

## TERM III (20133)

<table>
<thead>
<tr>
<th>Event</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASSES BEGIN</strong></td>
<td>May 7</td>
<td>May 7</td>
<td>Jun 25</td>
</tr>
<tr>
<td><strong>LAST DAY FOR DROP AND LAST DAY FOR</strong></td>
<td>May 11</td>
<td>May 9</td>
<td>June 27</td>
</tr>
<tr>
<td><strong>ATTENDANCE VERIFICATION BEGINS</strong></td>
<td>May 14</td>
<td>May 10</td>
<td>June 28</td>
</tr>
<tr>
<td><strong>HOLIDAY (Memorial Day)</strong></td>
<td>May 28</td>
<td>May 28</td>
<td></td>
</tr>
<tr>
<td><strong>HOLIDAY (Summer Break)</strong></td>
<td>Jun 21-22</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MIDTERM</strong></td>
<td>Jun 19</td>
<td>May 29</td>
<td>July 16</td>
</tr>
<tr>
<td><strong>LAST DAY TO WITHDRAW FROM ANY CLASS</strong></td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td><strong>LAST DAY TO CHANGE FROM CREDIT TO AUDIT</strong></td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td><strong>HOLIDAY (Independence Day)</strong></td>
<td>July 4</td>
<td></td>
<td>July 4</td>
</tr>
<tr>
<td><strong>LAST DAY OF CLASSES</strong></td>
<td>Aug 6</td>
<td>Jun 19</td>
<td>Aug 6</td>
</tr>
<tr>
<td><strong>FINAL EXAMINATIONS</strong></td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
<td>Last Class Meeting</td>
</tr>
<tr>
<td><strong>GRADES DUE BY NOON</strong></td>
<td>Aug 7</td>
<td>Jun 20</td>
<td>Aug 7</td>
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</table>
# WEEKEND COLLEGE CALENDAR
## 2011-2012

<table>
<thead>
<tr>
<th>TERM I</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aug 18-Dec 12</td>
<td>Aug 18-Oct 12</td>
<td>Sept 9-Dec 4</td>
<td>Oct 21-Dec 12</td>
</tr>
<tr>
<td>CLASSES START</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Day to Drop with 100% Refund</td>
<td>Aug 27</td>
<td>Aug 19</td>
<td>Sept 9</td>
<td>Oct 21</td>
</tr>
<tr>
<td>Attendance Verification Period Opens</td>
<td>Aug 22</td>
<td>Aug 22</td>
<td>Sept 12</td>
<td>Oct 24</td>
</tr>
<tr>
<td>HOLIDAY (Labor Day)</td>
<td>Sept 5</td>
<td>Sept 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Fall Holiday)</td>
<td>Sept 29</td>
<td>Sept 29</td>
<td>Sept 29</td>
<td></td>
</tr>
<tr>
<td>Last Day to Withdraw from any Class Without Refund</td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td>Last Day to Change from Credit to Audit</td>
<td>Oct 26</td>
<td>Sept 21</td>
<td>Oct 27</td>
<td>Nov 18</td>
</tr>
<tr>
<td>HOLIDAY (Veteran's Day)</td>
<td>Nov 11</td>
<td>Nov 11</td>
<td>Nov 11</td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Thanksgiving)</td>
<td>Nov 23</td>
<td>Nov 23</td>
<td>Nov 23</td>
<td></td>
</tr>
<tr>
<td>CLASS END</td>
<td>Dec 11</td>
<td>Oct 12</td>
<td>Dec 11</td>
<td>Dec 12</td>
</tr>
<tr>
<td>FINAL GRADES DUE BY 3:00 PM</td>
<td>Dec 13</td>
<td>Oct 13</td>
<td>Dec 13</td>
<td>Dec 13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERM II</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan 5-May 2</td>
<td>Jan 5-Feb 29</td>
<td>Jan 23-Apr 20</td>
<td>Mar 12-May 2</td>
</tr>
<tr>
<td>CLASSES START</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Martin L. King, Jr. birthday)</td>
<td>Jan 6</td>
<td>Jan 6</td>
<td>Jan 27</td>
<td>Mar 16</td>
</tr>
<tr>
<td>No day or evening classes</td>
<td>Jan 16</td>
<td>Jan 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Day to Drop With 100% Refund</td>
<td>Jan 9</td>
<td>Jan 9</td>
<td>Jan 30</td>
<td>Mar 19</td>
</tr>
<tr>
<td>Attendance Verification Period Opens</td>
<td>Jan 13</td>
<td>Jan 11</td>
<td>Jan 13</td>
<td>Mar 15</td>
</tr>
<tr>
<td>Professional Development Day</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No day classes</td>
<td>Feb 24</td>
<td>Feb 24</td>
<td>Feb 24</td>
<td></td>
</tr>
<tr>
<td>HOLIDAY (Spring Break)</td>
<td>Mar 5-11</td>
<td>Mar 5-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Day to Withdraw from any Class Without Refund</td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td>Last Day to Change from Credit to Audit</td>
<td>Mar 20</td>
<td>Feb 8</td>
<td>Mar 20</td>
<td>Apr 12</td>
</tr>
<tr>
<td>CLASS END</td>
<td>May 2</td>
<td>Feb 29</td>
<td>Apr 20</td>
<td>May 2</td>
</tr>
<tr>
<td>FINAL GRADES DUE BY 3:00 PM</td>
<td>May 3</td>
<td>Mar 1</td>
<td>May 3</td>
<td>May 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERM III</th>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May 7-Aug 6</td>
<td>May 7-Jun 19</td>
<td>Jun 25-Aug 6</td>
</tr>
<tr>
<td>CLASSES START</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Day to Drop With 100% Refund</td>
<td>May 11</td>
<td>May 11</td>
<td>Jun 29</td>
</tr>
<tr>
<td>Attendance Verification Period Opens</td>
<td>May 14</td>
<td>May 14</td>
<td>July 2</td>
</tr>
<tr>
<td>HOLIDAY (Memorial Day)</td>
<td>May 14</td>
<td>May 10</td>
<td>Jun 28</td>
</tr>
<tr>
<td>No day or evening classes</td>
<td>May 28</td>
<td>May 28</td>
<td></td>
</tr>
<tr>
<td>Last Day to Withdraw From Any Class Without Refund</td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td>Last Day to Change from Credit to Audit</td>
<td>July 2</td>
<td>Jun 4</td>
<td>July 20</td>
</tr>
<tr>
<td>HOLIDAY (Independence Day)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No day or evening classes</td>
<td>July 4</td>
<td>July 4</td>
<td></td>
</tr>
<tr>
<td>CLASS END</td>
<td>Aug 6</td>
<td>Jun 19</td>
<td>Aug 6</td>
</tr>
<tr>
<td>FINAL GRADES DUE BY 3:00 PM</td>
<td>Aug 7</td>
<td>Jun 20</td>
<td>Aug 7</td>
</tr>
</tbody>
</table>

**NOTE:** Registration dates are on page 6.
# INTERNATIONAL STUDENT

## ADMISSION DEADLINES

### TERM I

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 18-Dec 12</td>
<td>Aug 18-Oct 12</td>
<td>Sept 6-Dec 4</td>
<td>Oct 18-Dec 12</td>
</tr>
</tbody>
</table>

Last day for all admission documents to be received: June 1, 2011

First time admission for International Students will not be allowed for Session II, Session III, or Session IV.

### TERM II

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
<th>Session IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 5-May 2</td>
<td>Jan 5-Feb 29</td>
<td>Jan 23-Apr 20</td>
<td>Mar 12-May 2</td>
</tr>
</tbody>
</table>

Last day for all admission documents to be received: October 1, 2011

First time admission for International Students will not be allowed for Session II, Session III, or Session IV.

### Term III

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 7-Aug 6</td>
<td>May 7-Jun 19</td>
<td>Jun 25-Aug 6</td>
</tr>
</tbody>
</table>

Last day for all admission documents to be received: March 1, 2012

First-time International Students must register for either Session I or for both Session II and Session III.

**NOTE:** The Vice President for Student Affairs/College Registrar must approve any exceptions to the above schedule.
2011-2012

FINAL EXAMINATION SCHEDULE
TERM I

All examinations will be held in regular classrooms unless students are notified to the contrary by the professor. Examinations may have room conflicts. If your examination times conflict, or if your class start time is not listed, please consult with the professor.

Faculty teaching during Session 4 should coordinate scheduling of finals through their Associate Dean’s Office.

TUESDAY, DECEMBER 6, 2011

8:30 am to 10:20 am  for classes normally starting Tuesday and Thursday at 8:00 am or 8:30 am
10:30 am to 12:20 pm  for classes normally starting Tuesday and Thursday at 10:30 am or 11:00 am
12:30 pm to 2:20 pm  for classes normally starting Tuesday and Thursday at 12:30 pm
2:30 pm to 4:20 pm  for classes normally starting Tuesday and Thursday at 2:00 pm or 2:30 pm
4:30 pm to 6:20 pm  for classes normally starting Tuesday and Thursday at 4:30 pm or 5:00 pm
6:30 pm to 8:20 pm  for classes normally starting Tuesday and Thursday at 6:30 pm
 and for classes normally starting Tuesday at 6:30 pm
8:30 pm to 10:20 pm  for classes normally starting Tuesday and Thursday at 8:30 pm

WEDNESDAY, DECEMBER 7, 2011

8:30 am to 10:20 pm  for classes normally starting Monday and Wednesday at 9:30 am
10:30 am to 12:20 pm  for classes normally starting Monday and Wednesday at 11:30 am
12:30 pm to 2:20 pm  for classes normally starting Monday and Wednesday at 1:30 pm
2:30 pm to 4:20 pm  for classes normally starting Monday and Wednesday at 3:30 pm
4:30 pm to 6:20 pm  for classes normally starting Monday and Wednesday at 5:30 pm
6:30 pm to 8:20 pm  for classes normally starting Monday and Wednesday at 7:30 pm or 8:00 pm
 and for classes normally starting Wednesday at 6:30 pm
8:30 pm to 10:20 pm  for classes normally starting Monday and Wednesday at 8:30 pm

THURSDAY, DECEMBER 8, 2011

8:30 am to 10:20 am  for classes normally starting Tuesday and Thursday at 9:30 am
10:30 am to 12:20 pm  for classes normally starting Tuesday and Thursday at 11:30 am
12:30 pm to 2:20 pm  for classes normally starting Tuesday and Thursday at 1:30 pm
2:30 pm to 4:20 pm  for classes normally starting Tuesday and Thursday at 3:30 pm
4:30 pm to 6:20 pm  for classes normally starting Tuesday and Thursday at 5:30 pm
6:30 pm to 8:20 pm  for classes normally starting Tuesday and Thursday at 7:30 pm or 8:00 pm
 and for classes normally starting Thursday at 6:30 pm
8:30 pm to 10:20 pm  for classes normally starting Tuesday and Thursday at 8:30 pm

FRIDAY/SATURDAY, DECEMBER 9/10, 2011

For classes normally meeting on Friday or Saturday, your Final Exam will be at your regular class time.

MONDAY, DECEMBER 12, 2011

8:30 am to 10:20 am  for classes normally starting Monday and Wednesday at 8:00 am or 8:30 am
10:30 am to 12:20 pm  for classes normally starting Monday and Wednesday at 10:30 am or 11: am
12:30 pm to 2:20 pm  for classes normally starting Monday and Wednesday at 12:30 pm
2:30 pm to 4:20 pm  for classes normally starting Monday and Wednesday at 2:00 pm or 2:30 pm
4:30 pm – 6:20 pm  for classes normally starting Monday and Wednesday at 4:30 pm or 5:00 pm
6:30 pm to 8:20 pm  for classes normally starting Monday and Wednesday at 6:30 pm
 and for classes normally starting Monday at 6:30 pm
8:30 pm to 10:20 pm  for classes normally starting Monday and Wednesday at 8:30 pm

NOTE: For classes normally meeting one hour per week, please consult your instructor.
2011-2012

FINAL EXAMINATION SCHEDULE
TERM II

All examinations will be held in regular classrooms unless students are notified to the contrary by the professor. Examinations may have room conflicts. If your examination times conflict, or if your class start time is not listed, please consult with the professor.

Faculty teaching during Session 4 should coordinate scheduling of finals through their Associate Dean’s Office.

THURSDAY, APRIL 26, 2012
8:30 am to 10:20 am for classes normally starting Tuesday and Thursday at 9:30 am
10:30 am to 12:20 pm for classes normally starting Tuesday and Thursday at 11:30 am
12:30 pm to 2:20 pm for classes normally starting Tuesday and Thursday at 1:30 pm
2:30 pm to 4:20 pm for classes normally starting Tuesday and Thursday at 3:30 pm
4:30 pm to 6:20 pm for classes normally starting Tuesday and Thursday at 5:30 pm
6:30 pm to 8:20 pm for classes normally starting Tuesday and Thursday at 7:30 pm or 8:00 pm
and for classes normally starting Thursday at 6:30 pm
8:30 pm to 10:20 pm for classes normally starting Tuesday and Thursday at 8:30 pm

FRIDAY/SATURDAY, APRIL 27/28, 2012
for classes normally meeting on Friday or Saturday, your Final Exam will be at your regular class time.

MONDAY, APRIL 30, 2012
8:30 am to 10:20 am for classes normally starting Monday and Wednesday at 8:00 am or 8:30 am
10:30 am to 12:20 pm for classes normally starting Monday and Wednesday at 10:30 am or 11:00 am
12:30 pm to 2:20 pm for classes normally starting Monday and Wednesday at 12:30 pm
2:30 pm to 4:20 pm for classes normally starting Monday and Wednesday at 2:00 pm or 2:30 pm
4:30 pm to 6:20 pm for classes normally starting Monday and Wednesday at 4:30 pm or 6:20 pm
6:30 pm to 8:20 pm for classes normally starting Monday and Wednesday at 6:30 pm
and for classes normally starting Monday at 6:30 pm
8:30 pm to 10:20 pm for classes normally starting Monday and Wednesday at 8:30 pm

TUESDAY, MAY 1, 2012
8:30 am to 10:20 am for classes normally starting Tuesday and Thursday at 8:00 am or 8:30 am
10:30 am to 12:20 pm for classes normally starting Tuesday and Thursday at 10:30 am or 11:00 am
12:30 pm to 2:20 pm for classes normally starting Tuesday and Thursday at 12:30 pm
2:30 pm to 4:20 pm for classes normally starting Tuesday and Thursday at 2:00 pm or 2:30 pm
4:30 pm to 6:20 pm for classes normally starting Tuesday and Thursday at 4:30 pm or 6:00 pm
6:30 pm to 8:20 pm for classes normally starting Tuesday and Thursday at 6:30 pm
and for classes normally starting Tuesday at 6:30 pm
8:30 pm to 10:20 pm for classes normally starting Tuesday and Thursday at 8:30 pm

WEDNESDAY, MAY 2, 2012
8:30 am to 10:20 am for classes normally starting Monday and Wednesday at 9:30 am
10:30 am to 12:20 pm for classes normally starting Monday and Wednesday at 11:30 am
12:30 pm to 2:20 pm for classes normally starting Monday and Wednesday at 1:30 pm
2:30 pm to 4:20 pm for classes normally starting Monday and Wednesday at 3:30 pm
4:30 pm to 6:20 pm for classes normally starting Monday and Wednesday at 5:30 pm
6:30 pm to 8:20 pm for classes normally starting Monday and Wednesday at 7:30 pm or 8:00 pm
and for classes normally starting Wednesday at 6:30 pm
8:30 pm to 10:20 pm for classes normally starting Monday and Wednesday at 8:30 pm

NOTE: For classes normally meeting one hour per week, please consult your instructor.
Broward College

- Institutional Vision, Mission, Core values and Philosophy
- Campuses, Centers and other facilities
- History of the College
- Equal Opportunity Policy
- Policy Prohibiting Discrimination, Harassment and Retaliation
- District Board of Trustees
VISION, MISSION, CORE VALUES
AND PHILOSOPHY

Vision Statement
Broward College will be a destination for academic excellence, serving students from local communities and beyond. The college will embrace diversity – student, faculty, staff, and business partnerships – and foster a welcoming, affirming, and empowering culture of respect and inclusion. The college will stand at the leading edge of technological and environmentally sound innovation, providing attainable, high-quality educational programs. Broward College will be recognized for its recruitment and retention of diverse, outstanding faculty and staff whose primary focus will be to promote the success of each individual student while supporting lifelong learning for all students. As a model post-secondary institution, the college will connect its students to diverse local and global communities through technical, professional, and academic careers.

Mission Statement
The mission of Broward College is to achieve student success by developing informed and creative students capable of contributing to a knowledge- and service-based global society. As a public community college accredited to offer associate degrees, selected baccalaureate degrees, and certificate programs, the institution and its District Board of Trustees are committed to fostering a learning-centered community that celebrates diversity and inclusion by empowering and engaging students, faculty, and staff.

Core Values
- **Academic Excellence and Student Success:** Achieving student success through high-quality, learning-centered programs and services while continuously evaluating and improving student learning outcomes that reflect the highest academic standards. This is accomplished by providing flexible educational opportunities accessible to all students, regardless of time or place.
- **Diversity and Inclusion:** Creating a community that celebrates diversity and cultural awareness while promoting the inclusion of all its members.
- **Innovation:** Developing and implementing the most emergent technologies and teaching/learning methods and strategies to create learning environments that are flexible and responsive to local, national, and international needs.
- **Integrity:** Fostering an environment of respect, dignity, and compassion that affirms and empowers all its members while striving for the highest ethical standards and social responsibility.
- **Sustainability:** Ensuring effective, efficient use of college resources while implementing fiscally sound practices and environmentally sustainable initiatives that can be modeled in collaboration with our community.
- **Lifelong Learning:** Promoting the educational growth and development of all individuals through a variety of post-secondary professional, technical, and academic programs and services.

Philosophy
As an institution committed to the ideal of the value and dignity of the individual, Broward College recognizes the religious, ethnic, and cultural diversity of its students and staff and endeavors to provide equal educational opportunity for all students. Furthermore, the college fosters the value of lifelong learning as it strives through teaching excellence to enable students to appreciate knowledge and to acquire an education that will assist them in assuming positive roles in a changing society. Believing that educated people should be guided in their behavior by decency and civility, the college values honesty, integrity, and social responsibility among its staff and its students. Furthermore, it aspires to empower students with the critical thinking and problem-solving skills, global perspective, clarified values, and creativity that will enable them to make moral choices and ethical decisions in all aspects of their lives. In addition, the college embraces a commitment to American democratic values and culture, the principles of responsible citizenship, life enrichment, and self-awareness.

The College
As the first public higher education institution in the county, Broward College functions as the principal
provider of undergraduate higher education for the residents of Broward County. The college provides associate and baccalaureate degrees, and technical and occupational training for the citizens of Broward County, its district by law. As one of the 28 public community colleges in the Florida system, Broward College is designed to be a community-based institution that offers a comprehensive range of programs responsive to changes in the community and in technology. Where appropriate, these programs are articulated with the public school system, area vocational schools, and upper-level institutions to ensure that students can move smoothly from one system to another.

The college’s district board of trustees, its legal governing body, serves as a corporate body with all powers necessary for governance and operation. The college operates under statutory authority and rules of the Florida Department of Education. State appropriations and student fees provide operational funding for college programs. Construction and building maintenance funds are provided through statewide capital outlay bonds, not through local property taxes.

The campuses and centers

A. Hugh Adams Central Campus
The A. Hugh Adams Central Campus is located west of the Florida Turnpike and south of Interstate 595 on Southwest Davie Road in Davie. The Adams Campus is situated on 150 acres in a traditional college setting equipped with an aquatic complex and athletic facilities. The campus has more than 25 buildings housing the Buehler Planetarium and Observatory, the Ralph R. Bailey Concert Hall, the Fine Arts Theatre, the Institute of Public Safety, a student services center, state-of-the-art science laboratories, health science simulation equipment, and computer science laboratories, as well as facilities to support academic disciplines. The campus also operates three other sites: the Willis Holcombe Center and the Institute for Economic Development in downtown Fort Lauderdale, and the Tigertail Lake Center in Dania Beach. In addition, the Adams Central Campus houses the University/College Library, a research facility jointly funded by Broward College and Florida Atlantic University. The campus hosts two educational partners on site: Florida Atlantic University, Davie Campus, and the College Academy @ Broward College, a high school operated in partnership with the Broward County Public Schools.

- Willis Holcombe Center
The Willis Holcombe Center is located in the heart of Fort Lauderdale. In partnership with FAU, the center forms the Higher Education Complex on East Las Olas Boulevard. The center also houses the college’s district administration offices as well as more than 210,000 square feet of high-tech classroom space consisting of wired classrooms, science and technology labs, and a full array of student services. The center is surrounded by many cultural and municipal resources, including the Broward County Main Library, the Broward Center for the Performing Arts, the Museum of Discovery and Science, the Fort Lauderdale Museum of Art, and picturesque Riverwalk along New River.

- Institute for Economic Development
The Institute for Economic Development is located within the Willis Holcombe Center at 111 East Las Olas Boulevard, Room 408 and will be moving to 6400 N.W. 6th Way, Ft. Lauderdale, FL 33309 in December 2011. The institute offers a variety of continuing education courses, corporate training services, customized workforce development resources, support groups and training for women transitioning into the workforce.

- Tigertail Lake Recreational Center
The Tigertail Lake Recreational Center is located just west of I-95 and Griffin Road, at 580 Gulfstream Way, Dania Beach. The center offers conference and picnic areas and classes in aquatic activities and water sports. The Broward College Adventure Learning Course also is housed there, providing low and high ropes challenge programs and leadership and team-building activities.

North Campus
North Campus is adjacent to the Florida Turnpike at Exit 67 and south of Coconut Creek Parkway in Coconut Creek and covers approximately 113 acres. North Campus has more than a dozen buildings that include the multipurpose Omni Auditorium, the joint-use Broward County North Regional/Broward College Library and the 65,000 square-foot student services building. Also on campus is the JA World Huizenga Center, which houses two Junior Achievement programs: Finance Park and Enterprise Village. Programs at the facility serve approximately 24,000 fifth-graders and 24,000
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About Broward College

About Broward College
eighth-graders from public and private schools in Broward and Palm Beach counties annually.

• Coral Springs Center
The Coral Springs Center is located in the heart of Coral Springs, at 9441 West Sample Road at the intersection of Sample Road and University Drive. The center offers 19,000 square feet of classroom and office space at the Village Square Shopping Center. Students who wish to enroll in associate degrees, baccalaureate degrees or technical certificates at the center will find a variety of general and technical education classes with a focus on programs leading to high wage and high demand careers.

Judson A. Samuels South Campus
Located west of the Florida Turnpike on Hollywood/Pines Boulevard at 72nd Avenue in Pembroke Pines, the Samuels South Campus’ buildings are arrayed on a tract covering 103 acres. The campus also operates four centers: the Pines Center in the Academic Village at 16957 Sheridan Street, the Weston Center at 4205 Bonaventure Boulevard, the Broward College Automotive Training and Marine Center of Excellence, in Miramar at 7451 Riviera Boulevard and the Miramar Town Center at 2050 Civic Center Place. In addition, the campus is home to the Aviation Institute and the joint-use Broward County South Regional/Broward College Library.

The Aviation Institute, located adjacent to North Perry Airport, offers programs to prepare students for FAA and FCC certification and employment in the aviation industry.

• Pines Center
The Pines Center is located approximately two miles west of I-75 on Sheridan Street in the Academic Village in Pembroke Pines. The center is part of a 77-acre Jeffersonian-inspired educational complex that includes the Broward County Southwest Broward Regional Library and the Pembroke Pines Charter High School, as well as an athletic/aquatic complex and a wetlands nature reserve. The center offers credit and non-credit courses designed to prepare a diverse student population for educational and career opportunities.

• Weston Center
The Weston Center is located on the second floor of the Broward County Weston Branch Library and offers credit and non-credit courses. An 18-month fast-track Associate in Arts degree in business administration also is offered onsite to accommodate the busy lives of working adults.

• Broward College Maroone Automotive Training Center and Marine Center of Excellence
The Broward College Maroone Automotive Training Center and Marine Center of Excellence at Miramar share approximately 23 acres on Riviera Boulevard adjacent to the Florida Turnpike near the Broward/Miami-Dade county line. The center provides classrooms, administrative offices and work bays. The automotive technology program is a highly technical, interactive course of study designed to train students as automotive technicians ready for immediate employment upon graduation. The Marine Center of Excellence offers a specialized, comprehensive program in marine engineering management, and is accredited by the American Boat and Yacht Council and partners with the Marine Industries Association of Florida.

• Miramar Town Center
The Miramar Town Center is the home of the college’s air traffic control program and also offers credit and non-credit courses to meet the needs of the community. Broward College’s facility is on the second floor of the Broward County Miramar Library and Education Center, within the Miramar City Hall complex. The Miramar Library and Education Center is a partnership facility, bringing together Broward College, the City of Miramar, Broward County Libraries Division and Nova Southeastern University.

History of the college
In 1959, the Florida Legislature authorized creation of the Junior College of Broward County and members of the community began work on making the college a reality. An influential group of Broward community leaders lobbied Washington D.C. officials to provide land at the former Forman Field in Davie, a training site for World War II Naval aviators. A local advisory board was assembled in October 1959 and guided by the State Board of Educational Regulations, began developing programs and hiring staff. The college’s first president, Dr. Joe B. Rushing, vice president for administration at Howard Payne College in Brownwood, Texas, was appointed March 17, 1960. He reported for work on April 7.
As construction began at the former Forman Field site, the Junior College of Broward County opened its doors to its first class of 701 students in fall of 1960. They attended classes in buildings that were formerly part of Naval Air Station Junior High on the Fort Lauderdale/Hollywood International Airport property. Dr. John Allen, president of the University of South Florida, addressed the college’s first graduating class, 73 students, at War Memorial Auditorium on June 10, 1962. Among its members was Paris Nelson Glendening, who went on to serve two terms as Maryland’s 59th governor. The Junior College of Broward County’s first permanent building was completed in August 1963 when the college officially moved to the Central Campus.

Broward College received its initial regional accreditation by the Southern Association of Colleges and Schools SACS Commission Colleges in 1965 as an institution offering level one associate degrees.

Dr. Rushing resigned in 1965 and was succeeded by Dr. Myron Blee, director of the Office for Emergency Planning in Washington, D.C. Dr. Blee was in turn succeeded by Dr. A. Hugh Adams, who assumed his duties as president on April 15, 1968.

Florida’s junior colleges originally were governed by boards of public instruction, who also governed elementary and secondary instruction in each county. In 1968, the same year the JCBC changed its name to Broward Junior College, the Florida Legislature removed the junior colleges from the county school boards’ purview and turned the colleges’ advisory boards into district boards of trustees.

In September 1970, the district board of trustees changed the college’s name to Broward Community College, a change that better reflected the comprehensive nature of the college’s programs and its role in the community. Also in 1970, the Judson A. Samuels South Campus got its start in temporary headquarters adjacent to Memorial Hospital in Hollywood. North Campus, in Coconut Creek, was dedicated in 1972.

Dr. Adams served as president for 19 years. After he announced his intention to retire on December 31, 1986, the district board of trustees renamed the Central Campus the A. Hugh Adams Central Campus in his honor.

Named to succeed Dr. Adams was Dr. Willis Holcombe, executive vice-president at Brevard Community College, and a protégé of Dr. James Wattenbarger, architect of the state community college system. Before going to Brevard, Dr. Holcombe had served at Broward as a professor, executive assistant to President Adams, Central Campus academic dean, and then Central Campus provost. He served as president for 17 years, from 1987 to 2004. He initiated efforts that led to significant growth in enrollment, facility and program expansion. He also was instrumental in creating a variety of innovative partnerships to benefit the college, its students and the community at large.

Dr. Holcombe retired in January 2004. On his retirement, he was named President Emeritus. Succeeding him as the college’s fifth president was Dr. Larry Anthony Calderon, who served as president through December 2006. Dr. Holcombe returned from retirement to serve as president until the Broward College District Board of Trustees appointed J. David Armstrong, Jr., the former chancellor of the Division of Community Colleges, as its sixth president. President Armstrong began work at the college in July 2007. Dr. Holcombe was appointed chancellor when President Armstrong took over at Broward.

In summer of 2008, the college underwent one further name change, to Broward College, after the college received State Board of Education and legislative approval to begin offering baccalaureate degree programs in teacher education. The College submitted a substantive change to its regional accreditation association SACS and received approval to offer level two bachelor degree programs. The College is also approved to offer students Title IV Student Financial Aid funds for all degree levels and eligible certificates. At the same time, the college began offering online associate degree programs in 13 areas.

In 2009, the college received approval by the State Board of Education to offer four additional baccalaureate degree programs. They are: nursing, information management, supervision and management, and technology management.

Supporting the viability, vitality and robust growth of the communities they serve is an important part of the mission of Florida’s publicly supported community colleges. With a half century of service
to its community, none of the “Great 28” fulfills its mission better than Broward College.

Equal Opportunity and Inclusive Excellence Policies

As an institution of higher learning, Broward College is dedicated to the inculcation of the highest ideals of citizenship in a free society. The college as an equal opportunity/affirmative action employer complies with all applicable federal and state laws regarding discrimination and affirmative action. Consistent with the American ideals of equality of citizens and the dignity and worth of each person, the college hereby states that equal employment opportunity and advancement, as well as participation in programs and activities, are provided consonant with appropriate laws without regard to race, color, sex, national origin, religion, age, disability, marital status, sexual orientation or other legally protected classification.

Consistent with Broward College’s vision, mission, and core values, Broward College is committed to fostering a welcoming, affirming, and empowering culture of respect and inclusion, empowering and engaging students, faculty, and staff. The College is committed to inclusive excellence, integrating diversity and quality initiatives by infusing diversity into its organizational processes, structures, and practices. The College affirms its commitment to recruit, support, and retain a diverse student, faculty, and staff community that reflects the diversity of Broward County and to the importance of cultural competency. All members of the faculty, staff, and student body are expected to assist in making this policy a practical reality. The president of the college is empowered to implement this policy through appropriate personnel and by use of effective procedures.

The role of the Associate Vice President for Human Resources and Equity is to monitor the college’s human resource policies and procedures and to ensure compliance with federal and state laws that prohibit discrimination on the basis of race, color, age, national origin, religion, age, disability, marital status, sexual orientation or other legally protected classifications. As the College’s equity coordinator, the Associate Vice President for Human Resources and equity coordinates compliance with civil rights protections and is the State’s designated Equity officer for the College.

Questions pertaining to educational equity, equal opportunity or equal access should be addressed to the Human Resources and Equity Officer, located at 225 E. Las Olas Blvd., Fort Lauderdale, FL 33301. In December 2011, Human Resources for the College will move to 6400 N.W. 6th Way, Ft. Lauderdale, FL 33309.

Employees, applicants and students are regularly notified of this information and this information is posted in conspicuous locations on all campuses, is provided annually to all employees and students through college publications including, but not limited to, the following: College Newsletter, Salary Schedule, College Catalog, Course Schedule, Student Handbook and the Annual Equity Report.

Any employee, applicant for employment, student, or candidate for admission that has concerns about equitable treatment may contact the college equity coordinator. Students and employees should use college Procedure A6Hx2-3.34 Reporting Violations and Conducting Investigations of Complaints Alleging Discrimination Harassment, and/or Retaliation.

Policy prohibiting discrimination, harassment and retaliation

Broward College recognizes its obligation to work towards a community in which diversity is valued and equal employment opportunities are provided free from discrimination, unlawful harassment and retaliation in accordance with federal, state and local laws.

The equity office in human resources shall investigate complaints of discrimination, harassment, and retaliation according to the college policies and procedures. This authority is delegated from the college president to the vice president for human resources and equity, and carries the obligation to ensure that the college community adheres to the college’s policies prohibiting discrimination, harassment, and retaliation.

The college affirms its commitment to ensure that each member of the college community shall be permitted to work in an environment free from any form of discrimination or harassment based upon race, color, sex, national origin, religion, age, disability, marital status, sexual orientation or other legally protected classification, Please see Broward College Policy 6Hx2-3.34 and 6Hx2-3.44 for further details.
DISTRICT BOARD OF TRUSTEES

The Broward College District Board of Trustees brings together community leaders with diverse backgrounds who provide dedicated leadership to the college and its activities. Florida’s governor appoints this group of outstanding local citizens. As the governing board of the college, they are the stewards of BC’s commitment to excellence, while they guide the college and implement the goals enumerated in their mission statement. Their desire to provide students with the academic skills needed for transferring to universities, to enhance skills to be competitive in the rapidly changing job market, and to offer opportunities for continuing education, personal growth and enrichment is a challenge they approach with enthusiasm. As a team, these dynamic community leaders are fully engaged in providing a future that offers increased higher education opportunities for Broward County residents.

Sean Guerin, Chair
Fort Lauderdale

Sean Alveshire, Vice Chair
Plantation

John A. Benz
Hollywood

Elizabeth Tonkin
Davie

Pam Stefany
Fort Lauderdale
Admission Procedures

Steps to Apply to Broward College for:

**Degree Seeking**
- First time in College
- Re-entry BC students
- Transfer
- International F1, M1 Students
- Health Science Majors
- Bachelor Degree students

**Certificates and Diplomas**

**Non-degree seeking**
- Transient
- Continuing Education non-credit Students
- Eligible Florida High School Diplomas
Admissions Procedures

The Board of Trustees, within guidelines approved by the Florida Legislature, establishes Admission Policies at Broward College. Broward College gives all students the opportunity to pursue an education beyond high school.

In accordance with Florida Statutes 1007.263, high school graduates with a standard high school diploma from an institution recognized by the U.S. Department of Education as listed on the National Center for Education Statistics (NCES), or accredited by a regional accreditation agency, a General Equivalency Diploma (GED) as defined in Florida Statutes, applicants with an accepted Certificate of Completion (see specific Florida high school acceptable withdrawal codes on page 28), and applicants who completed the requirements for home education may apply for admission to the College. Students without a standard high school diploma or GED may be admitted to specific vocational certificate programs. Per Florida Statute students with Certificate of Completion may be admitted and enroll as degree seeking students.

All students are required to complete the requirements and procedures outlined for admission.

How to Apply
To gain admission to BC all students must complete the following steps.

1. **Complete an online application for admission.** Log onto www.broward.edu/future.

   If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it is furnished to Broward College (BC) so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish BC with the correct SSN or TIN may be subject to an IRS penalty of $50 unless the failure is due to reasonable cause and not to willful neglect.

2. **Residency for Tuition Purposes.** As a State institution, all students must submit and complete the Residency Affidavit for Florida Tuition Purposes. Students must also submit the required supporting documentation determined by the Florida State Legislators. All residency documentation must be reviewed and validated before residency for tuition purposes can be established. Students who are unable to provide sufficient and acceptable documentation to provide residency will be charged out-of-state tuition rates. At any time students’ residency status changes during enrollment, students can request that their residency is reclassified. Documentation to support residency classification must be submitted to any campus or center admissions offices. Students who fail to submit documentation and still want to register for classes, tuition will be charged at the out-of-state rate. See tuition rates in the fee section of the catalog.

   The Residency Affidavit may be obtained from the BC website at www.broward.edu/future.

   **Policy Statement:** Pursuant to College admission policy 5.01, students who falsify their residency or citizenship status upon admission or re-admission may be denied admission or suspended permanently at the point the misrepresentation is discovered by the College. Any monies owed to the College must be paid in full.

3. **Official U.S. Transcripts:** Request high school and other College transcripts for all colleges and universities attended, showing with no coursework in progress. Submit transcripts prior to the start of classes to:

   - Broward College
   - Registrar’s Office
   - 225 E. Las Olas Boulevard
   - Ft. Lauderdale, FL 33301

   Unofficial transcripts cannot be accepted for admission.

   **Information Note:** Students, who have earned 24 hours of transfer credits, may present their official college transcripts in lieu of any high school record. Students who receive aid at other institutions should consider very carefully and understand that the College has access to prior institutions attended where aid was awarded so not submitting prior records should not be considered.

   **Official Non-U.S. Transcripts**

   Students with transcripts from a university outside the United States must submit their transcripts with a course by course commercial evaluation, with upper and lower level course identification and translation to English. See page 29 for additional information.
Transcript Submission Timeline
First time in College students entering from high school must submit all an official and complete high school record prior to the start of their term, but no later than registration for the student’s second term of enrollment. Registration will be blocked for subsequent terms until the official transcript is received.

Transfer students must submit their official academic records, with no in progress course work, from all institutions attended and all transcripts must be and evaluated by the College prior to the first day of classes. Financial aid cannot be awarded and packaged without all records on file with credit evaluated.

Information Note: The College cannot guarantee that transcripts will be evaluated in time for the start of classes when transcripts are received less than 30 days prior to the start of classes.

Policy Statement: Pursuant to the College’s Admissions policy 501, students who fail to submit all transcripts from previously attended institutions will be sanctioned and disciplined per the Student Code of Conduct when the falsification is discovered. Students could face permanent.

4. Application Fee: Pay the one-time, non-refundable application fee of $35.00 (for U.S. citizens and permanent resident aliens) or $75.00 (for International Students). This is a processing fee and will not be refunded if the student does not enroll. The application fee is payable through any of the following methods.
   - Online with a credit card at www.broward.edu.
   - By mail with a check or money order to 225 E. Las Olas Blvd., Ft. Lauderdale, Florida 33301. Checks or money orders for payment of the application fee must be made payable to Broward College in U.S. ($) dollars and drawn on a U.S. bank. Payments in non-U.S. funds or drawn on Non-U.S. banks will be returned unprocessed. Counter starter checks are not accepted.
   - In-person with cash, check, money order, debit card or credit card at a campus Cashier’s Office. The authorized user must be present for credit card and debit card payments. Checks will be converted to automatic clearinghouse transactions.

5. Federal and State Financial Aid. Students who need assistance paying their tuition and fees must complete a Free Application for Federal Student Aid (FAFSA). To be considered for grants, institutional athletic and non-athletic scholarships, Federal direct subsidized and unsubsidized student loans, Florida Bright Futures programs, or work/study, a student must file a FAFSA annually for each academic year where aid is requested. Students do not need to be admitted to the College to apply for financial aid; however, before financial aid can be awarded, the student must be registered for classes and complete the verification process determined by the Federal government, if selected.

   Florida Bright Futures students who complete the FASFA are not eligible to receive Federal aid are exempt from the Federal verification process. However, students who want to receive Federal aid and Bright Futures awards, must complete the verification process prior to any Federal student aid awards are posted.

   Information Note: The Federal student aid application is available online at www.fafsa.ed.gov. Remember to use our school code, 001500. Effective January 2011, all eligible students should use the IRS data match when completing their FAFSA. See page 73 for information regarding Federal Student aid.

6. Skills Assessment Tests. Students who apply to the College must complete skills assessment placement test. The placement tests is not a pass or fail test, but rather a test given to determine students’ placement level in Math, English and Reading. Students may also satisfy this requirement by providing test scores, no more than two years old, from other approved tests for placement purposes taken prior to attending the College. Transfer students who have earned college-level credit in Math and English may also be exempt from taking the assessment test if C or better grades were earned in these courses.

7. Information Note: The College’s placement test is the Post-Secondary Readiness Test (PERT). PERT is the approved test for all State colleges in Florida. Non-degree seeking
students are not required to take the placement test until after completion of 12 credits of coursework. (See the following page for Admission Categories.)

8. Advisement. Complete the mandatory New Student Advisement and Registration session that is required of all first-time in-college-students. Students may choose from a variety of times and schedule to attend one of these sessions at any of the Broward campuses or centers. Students will be prohibited from registering until they attend one of these sessions.

9. All new and continuing students are required to meet with an Academic Advisor to develop an educational plan prior to the end of their second term of enrollment. Education plans help guide them through their program of study and ensures on time completion of required coursework if courses are taken and passed in the recommended sequence. Students who have an educational plan tend to success at higher levels; therefore, all students should have a career objective aligned to their program of study with an education plan that indicates which courses that these should be taken.

Advisement TIP: AA and AS graduates who take hours in excess either through changing majors or taking courses that do not apply toward their associate degree program will accumulate excess hours. The State universities in Florida charge and require students to pay a surcharge that is higher than tuition for courses at the bachelor degree level for all hours in excess. Stay on track.

10. Register for Classes. Students registration for classes each term should be based on the students’ defined career objective and education plan. Early registration is highly recommended. Registration dates are listed on the Academic Calendar on page 6 of the catalog and on the homepage online. More information on how to register can be found on page 61.

11. Tuition and Fees. Pay fees with cash, check, money order, or bank credit/debit card by scheduled due date. Tuition and fees can be paid through any of the following methods:
   - Online with a credit card at www.broward.edu.
   - In-person, with cash, check, money order, debit card, or credit card at a campus Cashier’s. The authorized user must be present for credit card and debit card payments. Checks will be converted to ACH transactions.
   - By mail with a check or money order. Checks and money orders must be made payable to Broward College and include the student’s identification number. Checks and money orders must be in U.S. ($) dollars and drawn on a U.S. bank. Payments in non-U.S. funds or drawn on non-U.S. banks will be returned unprocessed. Counter (starter) checks are not accepted. Checks and money orders may be mailed to:
     Broward College
     Willis Holcombe Center
     Cashier’s Office, Bldg. 33, Room 108
     111 E. Las Olas Boulevard
     Fort Lauderdale, FL 33301

12. Obtain a BC identification card. All students who are pursuing a degree, certificate or diploma must obtain and carry a BC photo identification card. It is used for identification, for verification of BC status, for using College services such as libraries and Learning Resource Centers, accessing information for financial aid or other student services that require identification of student status, and for gaining access to other BC facilities. A BC I.D. card may be obtained in the Student Life Office on each campus/center.

13. BC Student Email. All students are required to access and set up a BC student email account. This free Microsoft Live Edu student e-mail service is more than just e-mail, Microsoft Live Edu is browser based and offers students the latest technology in e-mail with a long list of benefits and features such as Single e-mail sign-on, Sync to your other e-mails, 10 GB e-mail file storage, Social Networking, Access, view, edit documents from anywhere using Microsoft Office on the Web, Edit Word, Excel, PowerPoint, and OneNote online without additional software, Mobile access to e-mail, IM, text, calendar, blogging, and campus directory from virtually any computer or mobile device (phone) with an Internet connection, Instant messaging, Ability to continue to use e-mail after leaving Broward College and more.
Communication with faculty, staff and administrators is done with electronic communications. Email is the college’s standard means of communication with students and students are expected to read set up an account and read their email so important information is not missed. Access the Broward College website www.broward.edu where email accounts can be set up through the myBC login and by clicking on the student email/account information icon.

International Students (F-1 and M1 Student Visa status) Admissions Procedures
Students must contact the International Student Admissions Office three to six months in advance to obtain an Admissions Packet specifically for F-1 and M1 applicants. The packet contains the required admission procedures to Broward College. F1 and M1 applicant must submit all required documents for admissions by the deadline shown in the packet.

Information Note: All international students must be enrolled in a degree seeking program as a full-time student (12 credit hours or more). See page 34 for additional international admission information.

Acceptance of Applicants
Upon completion of all admission forms and assuming eligibility, the applicant will receive an acceptance letter. Provisional admission status may be granted if all transcripts have not been received; however, all such documents must be received prior to registration for the student’s second term of enrollment. Registration will be blocked if transcripts are not received. Students are able to access transcript receipt history information through their myBC account.

NOTE: Students, who present falsified information may be suspended and credit for payments made, forfeited.

Admission Status
To meet the needs of a diverse community of learners, students can enroll as degree or non-degree seeking, as students seeking diplomas or certificates, as well as BC re-entry, transfer or transient students.

Degree Seeking Students
Students who intend to complete an associate degree (A.A., or A.S.), must have a standard high school diploma with an eligible high school withdrawal code as noted in the table below; a GED; or must be home education graduates who completed requirements in accordance with Florida Statutes. To be admitted, degree seeking all first-time in college students must submit official complete transcripts from high school and all colleges attended beyond high school prior to enrollment.

The Florida Department of Education defines public high school withdrawal and diploma codes that are eligible for admission to degree programs and are noted in the table below. Florida statute 1003. F.S. guides the general requirements for graduation.

<table>
<thead>
<tr>
<th>Withdrawal Code</th>
<th>High School Graduation</th>
<th>Degree Seeking</th>
<th>Financial Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>W06</td>
<td>Standard Diploma (Passed FCAT)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W57**</td>
<td>Special Diploma (Option One)</td>
<td>No</td>
<td>*</td>
</tr>
<tr>
<td>W10</td>
<td>Standard Diploma (GED Exit Option)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W27**</td>
<td>Special Diploma (Option Two)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>W43*</td>
<td>Adult Standard High School Diploma</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W52*</td>
<td>Adult Standard High School Diploma (Alternate Assessment)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W6A</td>
<td>Standard Diploma (18-Credit College Prep)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W6B</td>
<td>Standard Diploma (18-Credit Career Prep)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W7A</td>
<td>Standard Diploma (18-Credit College Prep, Alternate Assessment)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W7B</td>
<td>Standard Diploma (18-Credit Career Prep, Alternate Assessment)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W7T</td>
<td>Standard Diploma (Accelerated, Alternate Assessment)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W7W**</td>
<td>Standard Diploma (FCAT Waiver)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W45*</td>
<td>Adult State of Florida Diploma (GED)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

State of Florida Diploma

<table>
<thead>
<tr>
<th>Withdrawal Code</th>
<th>High School Graduation</th>
<th>Degree Seeking</th>
<th>Financial Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGD</td>
<td>State of Florida Diploma (GED only)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>W45*</td>
<td>Adult State of Florida Diploma (GED)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Certificate of Completion

<table>
<thead>
<tr>
<th>Withdrawal Code</th>
<th>Certificate of Completion</th>
<th>Degree Seeking</th>
<th>Financial Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>W8A</td>
<td>CPT-Eligible Certificate of Completion</td>
<td>Yes</td>
<td>A&amp;T or 6 Credits***</td>
</tr>
<tr>
<td>W08</td>
<td>Certificate of Completion</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>W09**</td>
<td>Special Certificate of Completion</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>W44*</td>
<td>Adult Certificate of Completion</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>W53*</td>
<td>Adult CPT-Eligible Certificate of Completion</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Degree Seeking Students High School Graduates with Non-Standard Diplomas
Eligible Florida High School Graduation Codes are noted on the table to the left. Some of these graduation codes allow students to admit and seek degree-seeking programs of study. Students who hold these diplomas and can admit as a degree-seeking student and can apply for Federal Financial Aid after showing certain levels of proficiency in Reading Comprehension, Sentence Skills and Arithmetic. The Higher Education Act allow for those students who demonstrate they possess sufficient "ability to benefit" (AtB) from post-secondary education as indicated by test performance on an approved AtB test or by earning (6) college credits, which can include preparatory courses with a grade of C or higher may able for Federal Student Aid. Non-degree seeking students are NOT eligible for aid. 

The College administers the Computerized Placement Test (CPT) as its approved AtB test. Passing scores on the College Placement Test (CPT) are as follows:

<table>
<thead>
<tr>
<th>Skill</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sentence Skills</td>
<td>60</td>
</tr>
<tr>
<td>Reading Comprehension</td>
<td>55</td>
</tr>
<tr>
<td>Arithmetic</td>
<td>34</td>
</tr>
</tbody>
</table>

Applicants must also follow other admissions requirements outlined in this section of the catalog.

Applicants Seeking Bachelor degrees Broward College offers Bachelor degree programs various workforce demand areas. Students interested in applying to one of the College’s bachelor degree programs to refer to page 145 in the catalog.

Degree or non-degree seeking students with Earned Degrees
Students with earned Bachelor degrees can apply and enroll in degree or non-degree seeking programs. Federal Pell and other sources of need-based Federal and State aid are not available to students with earn bachelor degrees.

Students holding earned AA degrees cannot earn another AA degree. Students with earned AA, AS or AAS degrees can earn other associate in science degrees. However, students should meet with a financial aid advisor to understand the impact their Federal student financial aid.

College Policy Statement: Pursuant to Policy 5.01, students who fail to disclose all institutions attended and degrees earned upon admission are considered to be in violation of College policy and may have their admission canceled or may be expelled if the determination is made post enrollment.

Federal Policy Statement: Federal Pell Grants are direct grants awarded through participating institutions to students with financial need who have not received their first bachelor's degree or who are enrolled in certain post baccalaureate programs that lead to teacher certification or licensure. Students who received a Pell Grant for the first time on or after July 1, 2008, you can only receive the Pell Grant for up to 18 semesters or the equivalent.

Advisement TIP: Students are encouraged to persist toward a bachelor's degree rather than using all of their pell eligibility at the associate degree, two year level.

Non-Degree Seeking Students
Students who wish to take college credit or vocational credit courses for personal enrichment or career exploration, and who do not intend to seek a degree or a certificate, will be admitted as non-degree seeking students. Non-degree seeking students still:

- must submit a valid high school diploma, GED or home school certification, but are not required to submit placement test scores;
- prove Florida residency for tuition purposes or pay out-of-state fees
- may be allowed to enroll in up to 12 semester hours of coursework, that does not require placement, without declaring intent toward a major. Enrollment beyond 12 semester hours will require the student to complete the full admission process, including placement testing;
- are required to adhere to pre-requisites, which may create a need for placement testing;
- are not eligible for financial aid.

Certificate/Applied Technology Diploma Applicants
Requirements for applicants who intend to complete a Vocational Certificate, Technical Certificate or Applied Technology Diploma vary from program to program. For a listing of the specific requirements for certificate and applied technology programs,
refer to page 141 Program Admission Requirements. Generally documents that may be required include:

- high school diploma or GED
- transcripts from all colleges/vocational centers previously attended, and
- placement test scores (TABE or PERT)

**Non High School Graduates** may be eligible to enroll in certain certificate programs, but cannot pursue degree programs. No financial aid can be received. These applicants are encouraged to meet with an academic advisor prior to starting the application process at the College.

**Broward College Re-Entry Students**

Students who have prior enrollment history at the College and have not attended BC for one academic year and are in good academic standing must submit a Re-Entry Application to update personal information, (which includes a valid SSN or TIN number, see additional information under the section labeled “How to Apply” item number 1 in this chapter), re-certify Florida residency and to verify educational goals. If the returning student requests a change from non-resident status, a petition for reclassification must be filed with the Admission’s Office.

**College Policy Statement:** Per College policy, any falsification of residency status may lead to explosion, loss of credit earned and repayment of any fee related to the incorrect prior classification.

If the returning BC student has attended another Florida state institution within the last 12 months while not enrolled at BC, and that institution declared the student a Florida Resident for Tuition Purposes, their residency status will be honored upon entry or re-entry. An official and complete electronic transcript show no work in progress must be submitted to BC from all colleges and universities attended while not enrolled at BC.

**Transfer Students**

Transfer students are students who have previously attended another college or university and wish to continue their education at BC. Transfer students must follow all the admission procedures indicated in this section of the catalog.

Transfer students should also observe the following requirements:

- Students who have fewer than 24 credits at the college level must submit official electronic transcripts from their high school and all colleges and universities attended.
- Students who are not in good academic standing (on suspension or dismissal) must see an Academic Advisor to petition the admission status prior to submitting an application for admission.
- Students who have attended a college/university outside the United States are required to provide a course by course commercial translation and evaluation with upper-level course identification of all course work completed.
- Requested documents must be presented prior to registration for the student’s first term of enrollment. Students whose transcripts are not on file at the College will be blocked from registering for their first term of entry/re-entry.

**Transient Students**

Transient students are students who are currently enrolled at another institution and have permission from that institution to take one or more classes at Broward College. These students do not intend to transfer to, or seek a degree or certificate at BC. These students are required to do the following:

- Complete a BC application online at broward.edu/future. The student must provide a valid SSN or TIN number, see additional information under the section labeled “How to Apply” item number 2 in this chapter, and pay the non-refundable application fee.
- A letter from the home institution should indicate that the student is in good academic standing and state the specific course(s) the student is being granted permission to take.

Transient students should note that some BC courses may have prerequisites or co-requisites, including labs. Transient students accept full responsibility for possessing or acquiring, at the time of enrollment, the knowledge and/or skills that these pre-and co-requisites provide.

Transient students are responsible for requesting that an official transcript be sent to their home institutions after completion of coursework at BC. There will be a fee assessed for that transcript.

**Dual Enrolled High School Applicants**

Students who have already earned credit through dual enrollment and hold a qualified diploma
International Student Admissions

- Admissions
- Continued Enrollment Requirements
International Student Admissions

International Students
(F-1 and M1 Student Visa Status)

Broward College embraces a multicultural, diverse student environment and encourages applications from students all over the world. Students should apply to the college three to six months in advance of the anticipated semester of enrollment. An international student application and admission brochure can be obtained from any admission office on any campus or can be downloaded from the College website at www.broward.edu. The admission packet contains general information as well as specific requirements for admission to and continued enrollment at Broward College. Deadline dates are included in the packet.

Admission Requirements
The following documents are required for admission to the College. Baccalaureate degree seeking students who have earned a two-year degree or 60 credits of transferrable credit should refer to admissions requirements beginning on page 145.

1. International Student Application
   - Completed application with signature.
   - $75 application fee in check or money order drawn on a United States bank.

2. Official Education Records through highest level completed along with an official certified English translation
   (Copies must be certified by the school attended, the Ministry of Education in native country, or the US Consulate.)
   - High School Diploma or General Equivalency Diploma (GED) - All applicants must have the equivalent of a US high school diploma. (High school diplomas do not have to be translated to English with the exception of Hebrew, Arabic or Asian)
   - For the British education system, four academic passes on the GCE, CXC, BGCSE, WAEC, WASC, or HKCE exams in General Proficiency are also required with high school diploma.

3. Evidence of financial support
   - Confidential financial statement on the application must be completed signed by financial sponsor.
   - Bank statement, scholarship, or loan approval indicating that there are sufficient funds to cover the “total cost of attendance for the full length of the program of study” (tuition, fees, books, living expenses, transportation, and incidental expenses). Each dependent will

Students attending colleges or universities outside the US will be required to have a commercial evaluation done within 30 prior to the start of classes consisting of a course by course evaluation and upper division course identification.

4. Evidence of English proficiency (Native English speakers or applicants for the language program are not required to show evidence of English proficiency.)
   Degree seeking students must submit one of the following:
   - TOEFL - minimum score of 79 on the internet–based test or a minimum score of 550 on the paper-based test.
   - IELTS - minimum score of 6.5.
   - Broward College English as a Second Language Placement Test (LOEP). Applicants currently in US only.
   - Successful completion of English IV at a US high school or university level English at an accredited US university with a grade of C or higher.

Please note: All international students regardless of TOEFL or IELTS scores will be required to take the LOEP test for placement.

*In addition, students who are degree seeking, who do not place into college-level English on the LOEP test, will be required to take English as a Second Language (ESL) courses, which will not apply towards a degree. All ESL classes must be completed before starting any course work in a degree program.

5. Evidence of financial support
   - Confidential financial statement on the application must be completed signed by financial sponsor.
   - Bank statement, scholarship, or loan approval indicating that there are sufficient funds to cover the “total cost of attendance for the full length of the program of study” (tuition, fees, books, living expenses, transportation, and incidental expenses). Each dependent will
require additional funds in the amount of $7,000 US dollars.

**Total Minimum Balance Required:**
- **Associate Degree or Language Program:** $22,500 US dollars.
- **Professional Pilot Program:** $50,000 US dollars.
- **Bachelor Degree:** $27,500 US dollars.

**Current cost per credit:**
Please refer to the College Website for the current tuition and fees. (Fees are subject to change without notice)

6. Copies of a valid passport, current I-20, and visa, if applicable.

**After Receipt of Application and Admission Documentation**
Within two to six weeks after receiving an application the International Admissions Office will notify you regarding one or more of the following:

1. Proof of acceptance along with the I-20 eligibility form;
2. Proof of acceptance with a letter indicating the student must contact the International Admissions Office regarding his/her visa status;
3. A request for additional information, indicating which items are missing in your application packet;
4. A denial letter with an explanation for that decision.

Please be advised acceptance to the College does not guarantee a student visa by the US Embassy in your country; neither does it guarantee a change of status by the United States Citizenship and Immigration Services (USCIS).

International students obtaining the student visa in their country cannot enter the US more than 30 days before the first day of classes. Once in the US, students must show proof of the student visa before the on-campus advisement and registration process can begin. International Students are required to report directly to the International Student Advisor/Counselor on the campus the student plans to attend for placement testing, advisement, and registration. Placement test scores will determine if the student should enroll in developmental courses in Math, Reading or English. These are credit courses that do not apply toward a degree.

After Admission, before class registration, applicants must show proof of health insurance. Health insurance is required during your entire program of study at Broward College.

**Other Requirements**
International students must make satisfactory progress towards their degree objective each term to comply with immigration regulations.

This includes the following:
- Successfully complete at least 12 semester hours during the fall and winter respectively.
- The summer semester is considered the student’s annual vacation unless it is their first semester or if special arrangements have been made with the international admission office.
- Successfully complete a minimum of 24 semester hours in one academic year.
- Maintain an overall 2.0 grade point average.
- Maintain lawful F-1 or M1 visa status with the USCIS.
- Students may not enroll beyond the expiration date of their I-20 form.
- Compliance with all the College rules and regulations.

**NOTE:**
Students receiving a W, WF, or WN as a final course grade or enrollment status are considered to be less than the required 12 credits. If the final grade or enrollment status received is correct, it is a violation of the Student Code of Conduct for students to ask faculty or any college official to alter a grade in order to remain in compliance with Federal Immigration Regulations. Reported incidences of this behavior can result in expulsion.

Students who do not meet the above regulations will not be permitted to register for subsequent terms and may be reported to the USCIS for non-compliance of the immigration regulations.

**Florida Residency**
Students in F-1 or M1 status are considered temporary residents of the United States and may NOT be deemed Florida residents for tuition purposes.
Federal Income Tax
International students must file an income tax return each year. Form 8843 is required if the student has not worked, and form 1040NREZ is required if the student has worked. International students should contact the local Internal Revenue Office (IRS) for further information. Forms can be obtained online at www.irs.gov.

All non-residents are subject to US federal income tax, unless exempted. Federal income tax may be withheld from US source funds students receive from the college such as scholarships or employment. Certain countries have tax treaties with the US where some taxes may be reduced or exempted and recouped at year end from the IRS. For participating countries, please visit the IRS website at http://www.irs.gov/pub/irs-pdf/p901.pdf.

Employment
In most instances, international students are not permitted to work off campus. On-campus employment is permitted. Please contact the International Student Advisor for additional information on employment.

Housing
The College does not provide or recommend student housing.

Financial Assistance
Non-US Citizens or non-eligible residents do not qualify for Federal or State Student Financial aid. International students may qualify for private loans as explained in the next paragraphs. The college does not encourage, provide assistance or give advice regarding private loans for any students enrolled or not enrolled at the College. The College does provide an International Student Merit Scholarship. Students are eligible for this award after completion of 24 Broward College college-level credits with an overall cumulative GPA of 3.0. Please contact the International Admissions Office for more information.

International students may apply for private education or alternative loans to help pay for their educational expenses as long as there is a co-signer who is a US citizen or permanent resident. The guidelines to apply will vary depending on the lender, but citizenship and credit will be a requirement for all lenders. Please contact the lender of your choice for additional information. The College does not provide lender information of any kind.

Please note: Students using student loans as proof of financial support must provide loan approval prior to admission and all transactions regarding the loan are between the student and the lender. Admission cannot be approved prior to loan approval.

Social Security Number
If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it be furnished to the College so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish the College with the correct SSN or TIN may be subject to an IRS penalty of $50 unless the failure is due to reasonable cause and not to willful neglect.

Contact Information
Contact information for international student admission can be obtained from the College website at www.broward.edu.
Broward College President, J. David Armstrong, interacting with students

Student Activities at Broward College

Broward College Mascot, Sammy the Seahawk, with students
Health Science Admission Requirements

- Health Science Admission Requirements
- Selection Criteria
- Notification of Admission
- Number of Students Admitted

Fall 2011 Pre-admission Meeting
Health Science Admissions

Health Science Admission Requirements

Application to any Health Science program is a supplemental application process to applying for admission to Broward College. Health Science programs are considered “limited access” meaning that there are a limited number of seats available each time the program admits students.

To apply for admission into a health science program, students must do the following:

1. Complete the admission requirements to the College.
2. Submit electronic copies of transcripts for all previous college work (excluding Broward College) to: College Registrar
   225 East Las Olas Boulevard
   Fort Lauderdale, Florida 33301
3. Meet with an Academic Advisor to determine transferability of credits and additional course requirements.
4. Complete all college preparatory and prerequisite requirements for the specific health science program of interest. Specific program admission requirements and application timelines for submitting a Health Science Limited Access application are accessible online and on Pages 36 – 38.
5. Complete a Health Science Limited Access Application for the desired Health Science program(s).
6. Submit the Health Science Limited Access Application to a Health Science Admissions Office located on the Central Campus in Building 19, Room 101; or on the North Campus in Building 46, Room 252. Each application for admission will incur a $20.00, non-refundable Health Science application fee payable online or any campus Cashier’s Office.
7. Activate the free BC student e-mail account. Information about setting up the e-mail account can be found online. All communication will be sent to this email address, including admission decisions.

Most Health Science programs require completion of Pre-Health Science Core requirements such as HCP 0001 (a 75 clock hour Health Career Core Curriculum continuing education course) and specific certificate courses:
   - HCP 0405 – Basic Life Support
   - HCP 0591 – HIV/AIDS
   - HCP 0691 - Domestic Violence
   - HCP0692 – Prevention of Medical Errors
   - HCP 0522 - TB / OSHA / Hepatitis

These courses, as prescribed by the Florida Department of Education, Division of Applied Technology and Adult Education, introduce students to basic health care knowledge and skills. It is also recommended that students enroll in College Success Skills, SLS 1501 prior to entering any Health Science Program.

Selection Criteria

Admission selection is determined from a review of the applicant pool. Meeting the minimum admission requirements provides prospective applicants’ eligibility to submit applications for admission consideration yet does not guarantee acceptance into the program. Candidates, who earned the most points by weight, taking into consideration all requirements, are selected for admission. No exceptions are possible.

Number of Students Admitted

Most Health Science programs admit students once each year. Few programs admit each semester. The number of students selected is limited and varies with the availability of clinical facilities, state licensing regulations, and other related criteria.

Notification of Admission

Admission decisions are accessible through students’ myBC account and clicking on the Limited Access Application Status icon. Admitted students to respective programs are notified of a mandatory preadmission meeting through their BC email. Upon notification of acceptance, students are required to acknowledge their attendance. Any student who does not attend the mandatory preadmission meeting will forfeit their seat offer.

A selected candidate may request a one-time deferral to the next available term. Deferral requests must be emailed from the student’s BC email address to healthscience@broward.edu or mailed to:
Health Science Admissions
225 E. Las Olas Blvd
Fort Lauderdale, Florida 33301

Note: The College reserves the right to change any of the policies at any time, including those related to admission.
# Health Science Program Pre-Requisite Requirements

**Effective dates are for the January, May and August 2012 Admission**

For admission information, send an email to the Admission office at healthscience@broward.edu

- Specific program application periods are noted in the right column of each row.
- Admission Decisions are made **30 days** following the close of noted application period.
- Complete program overviews are available in the College Catalog; and BC website by clicking on each program name.

**NOTE:** Science Courses completed more than 10 years ago must be evaluated to determine if they will need to be repeated.

<table>
<thead>
<tr>
<th>Name of Program</th>
<th>Degree Awarded</th>
<th>Required Prerequisites</th>
<th>Application Period</th>
<th>Health Career Core &amp; HSC’s</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dental Hygiene</strong> A.S. – 2145 Central</td>
<td></td>
<td>Minimum GPA of 2.5. Completion of prerequisite courses BSC 1085, BSC 1085L, CHM1032. Applicants must have graduated within last three years from a Dental Assisting program accredited by the Commission on Dental Accreditation of the ADA, listed in the Florida Department of Education database of dental assisting programs, and hold current national certification as a Dental Assistant (CDA). Each dental assisting and general education course must have a minimum grade of “C”.* Successful completion of all General Education requirements prior to the beginning of the program is required.</td>
<td>May 16 – May 15 <strong>Begins in August</strong></td>
<td>HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence HSC0692 - Prevention of medical errors</td>
</tr>
<tr>
<td><strong>Diagnostic Medical Sonography</strong> A.S. – 2176 North</td>
<td>Minimum GPA of 2.5. Graduate of a direct-patient-contact two-year health science program which leads to licensure or registry. Acceptance preference given to ARRT Registered Radiographers. See DMS Website for specific details.</td>
<td>Open Ended* <strong>Begins in January</strong></td>
<td>HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence HSC0692 - Prevention of medical errors</td>
<td></td>
</tr>
<tr>
<td><strong>Nursing: RN Classroom</strong> Generic and On-Line A.S. - 2127 Central, North, South</td>
<td>Minimum GPA of 2.5 in the following prerequisite courses: ENC1101, CHM1032, BSC 1085, BSC 1085L, BSC 1086, BSC 1086L, including HCP 0001. Previous Nursing credit must be evaluated by Nursing Department. A2 HESI Test Previous Nursing credit must be evaluated by Nursing Department to determine admission eligibility.</td>
<td>July 16 – Sept 15, 2010 <strong>Begins in January</strong> March 1 – May 15, 2011 <strong>Begins in August</strong> November 1-January 15 <strong>Begins in May North and Central ONLY</strong></td>
<td>HCP0001 – Health Career Core HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence HSC0692 - Prevention of Medical Errors</td>
<td></td>
</tr>
<tr>
<td><strong>Nursing: LPN–RN Classroom Transition</strong> A.S. - 21271 Central, North, South</td>
<td>Minimum GPA of 2.5 in the following prerequisite courses: ENC1101, CHM1032, BSC 1085, BSC 1085L, BSC 1086, BSC 1086L, including current State of Florida LPN license without restrictions. Previous Nursing credit must be evaluated by Nursing Department. A2 HESI Test Previous Nursing credit must be evaluated by Nursing Department to determine admission eligibility.</td>
<td>Open Ended* <strong>Begins in May</strong></td>
<td>HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence HSC0692 - Prevention of medical Errors</td>
<td></td>
</tr>
</tbody>
</table>

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# Health Science Program Pre-Requisite Requirements

**Effective dates are for the January, May and August 2012 Admission**

**NOTE:** Science Courses completed more than 10 years ago must be evaluated to determine if they will need to be repeated.

<table>
<thead>
<tr>
<th>Name of Program Degree Awarded Campus Location</th>
<th>Required Prerequisites</th>
<th>Application Period</th>
<th>Health Career Core &amp; HSC’s Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Therapist Assistant</strong> A.S. – 2153 North</td>
<td>All prerequisites require completion with a minimum grade of 'C.' The required overall GPA is a minimum of 2.0 unless otherwise noted. See Program of Study beginning on page 160 for selection criteria. There are no prerequisites required prior to applying however points will be awarded in several categories including completion of general education courses - check online for details. All students selected for admission must successfully complete the required Online Test Drive.</td>
<td>August 1 - January 20 Begins in May</td>
<td>HSC0591 – HIV/AIDS HSC0522 - TB/OSHA/Hep  HSC0405 - CPR HSC0691 - Domestic Violence HSC0692 - Prevention of Medical Errors</td>
</tr>
<tr>
<td><strong>Radiography</strong> A.S. – 21311* * Hospital Based Central</td>
<td>Hospital Based program applicants must be registered by the ARRT in Radiography.</td>
<td>Open Ended* Begins each term</td>
<td>N/A ARRT License satisfies HSC requirements</td>
</tr>
<tr>
<td><strong>Respiratory Care</strong> A.S. – 2132 North</td>
<td>Minimum pre-requisite GPA of 2.5 in the five (5) prerequisite courses: BSC 1085, BSC 1085L, CHM1032, ENC 1101, MAT 1033 or higher.</td>
<td>February 3 - May 12 Begins in August</td>
<td>HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence</td>
</tr>
<tr>
<td><strong>Dental Assisting</strong> Vocational Certificate 5217 Central</td>
<td>Entry into BC requires a standard high school diploma or GED. Mandatory sign-off of Program Overview written information. Complete HCP0001 – Health Career Core and all other HSC’s prior to admissions. TABE Basic skills required for program completion.</td>
<td>January 3 – January 10 Begins in August</td>
<td>HCP0001 – Health Career Core HSC0591 - HIV/AIDS HSC0522 - TB/OSHA/Hep HSC0405 - CPR HSC0691 - Domestic Violence * No Online Core. HSC completions accepted from Broward College ONLY</td>
</tr>
<tr>
<td><strong>Emergency Medical Technician</strong> Technical Certificate B003 Central, North</td>
<td>Completed Application, background check, updated medical history form, and current CPR Card (Basic Life Support for Health Care Provider)</td>
<td>Open Ended* Begins January &amp; August</td>
<td>HSC0405 – CPR Basic Life Support</td>
</tr>
</tbody>
</table>

* Open-ended application period means that students are allowed to submit an application for consideration to a specific program until all available seats are filled.
## Health Science Program Pre-Requisite Requirements

### Effective dates are for the January, May and August 2012 Admission

**NOTE:** Science Courses completed more than 10 years ago must be evaluated to determine if they will need to be repeated.

<table>
<thead>
<tr>
<th>Name of Program</th>
<th>Degree Awarded</th>
<th>Required Prerequisites</th>
<th>Application Period</th>
<th>Health Career Core &amp; HSC’s Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Paramedic</strong></td>
<td>Technical Certificate</td>
<td>Florida State EMT certified within the first term of the program. Completed Application, background check, updated medical history form, and current CPR Card (Basic Life Support for Health Care Provider) * Application packet available at the Health Science Admission Office.</td>
<td>Open Ended* Begins January &amp; August</td>
<td>HSC0405 – CPR Basic Life Support</td>
</tr>
</tbody>
</table>

Health Science programs begin each August, with the exception of the following:

**NURSING**
- Classroom and On-Line Generic: January & August
- Classroom and On-Line Transition: June

**Diagnostic Medical Sonography**
- Diagnostic Medical Sonography: January

**Pre-Health Career Core and HSC Requirements**
- HCP 0001 Health Career Core: 75 contact hrs.
- HSC 0405 Basic Life Support (CPR): 8 contact hrs.
- HSC 0591 HIV/AIDS: 4 contact hrs.
- HSC 0691 Domestic Violence: 2 contact hrs.
- HSC 0522 TB / OSHA / HEPATITIS: 6 contact hrs.
- HSC 0692 Prevention of Medical Errors: 2 contact hrs.

For course and registration information contact the Continuing Education Health Science Department at 954-201-6768 or 954-201-6783.

[www.broward.edu](http://www.broward.edu)

2011-2012 College Catalog

Broward College 43
Health Science Education Programs

- Academic Divisions
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Health Science Education Programs

There are two major academic divisions within the area of Health Science Education:

1. Programs for Initial Professional Preparation:
   - Dental Assisting
   - Dental Hygiene
   - Diagnostic Medical Sonography
   - Emergency Medical Technician
   - Health Information Management
   - Massage Therapy
   - Medical Assisting
   - Nuclear Medicine
   - Nursing RN Program
   - Paramedic
   - Physical Therapist Assistant
   - Radiation Therapy
   - Radiography (X-ray)
   - Respiratory Care
   - Vision Care

2. Post-Professional Development Programs:
   The Continuing Education and Workforce Development Department offers post-professional development courses/programs for credentialed health professionals whose goals are to increase their knowledge and skills in various health-related topics and courses. Advanced Technical Certificates are also offered in the following areas: Basic Perioperative Nursing, Coronary Care Nursing, Critical Care Nursing, Graduate Nurse Intern, Home Health Nursing, Multi-skilled Healthcare Professional, and Vascular Sonography.

Technical Performance Standards
Students must meet certain standards of performance prior to the start of any Health Science program so that they can successfully progress in their course work and ultimately graduate. These standards include meeting certain physical, psychological, and cognitive demands associated with the chosen profession. Technical Performance Standards for each program can be reviewed at the specific program’s web site.

Health Science Program Policies

Academic Integrity
In addition to the College’s Student Code of Conduct, the Health Science programs have adopted a Health Science Code of Professional Behaviors. This Code is provided in the Student Handbook for each program. Students are expected to comply with all of the professional behaviors detailed in the Code. Any infraction of the Code may result in disciplinary action including dismissal from the program.

Each Health Science course syllabus outlines the specific instructor’s policy on cheating. If a student is discovered cheating, the student also may be expelled or suspended from the program. In submitting written work during any course, the student should be aware of the policy on plagiarism adopted by the Health Science faculty found in the Student Handbook for each program.

Attendance
Each instructor determines the attendance policy for his/her Health Science lecture or lab class. The attendance policy is detailed in the course syllabus at the beginning of each semester. It is the student’s responsibility to know and comply with the attendance policy. Each program maintains clinical policies as well which follow specific guidelines related to attendance.

Continuation in a Health Science Program
Continuation in a Health Science program is dependent upon maintaining a minimum grade of “C” in each Health Science course and a minimum GPA of 2.0 (or as specified by the specific program).

Each program has established policies in addition to the College academic progress policies that may be more restrictive and that must be met in order to progress through the program. As such, the program deans can assess students readiness and qualifications including, but not limited to the following: coursework, clinical and laboratory; behavior and ethical standards in and outside of class at the College or at clinical sites and make a judgment to continue or discontinue a student’s enrollment. When it is deemed that the student does not possess the qualifications necessary for the selected Health Science career or demonstrates behavior deemed to be potentially detrimental to the aims and purposes of the College or to a patient’s safety and well being, the student will be dismissed from health science programs. This decision may or may not impact continued enrollment in other programs at the College, each circumstance will be evaluated. Excessive course/clinical failures in limited access programs may result in dismissal from the program. Refer to College Policy 6Hx2-5.33 and Procedure A6Hx2-5.33 on Re-entry into a Health Sciences Program or program guidelines.
Criminal Background Check and Drug Screening

Students applying to a Health Science program are subject to a criminal background check and drug screening which is required as a prerequisite to attending any clinical practicum while enrolled in the program. A student needs to be aware that participation and placement may be denied at a clinical agency based on the background or drug screening results and the clinical agency’s pre-employment screening policy.

Should such denial occur, the health science program cannot guarantee an alternative facility placement. Withdrawal from the program will be necessary if a student cannot meet requirements as they relate to the clinical site.

If a student is admitted to the College based on their background check and screening and is allowed to complete a clinical experience, it does not guarantee the student will be eligible to sit for the certification or licensing exam. Pursuant to Section 456.0635, Florida Statutes, effective July 1, 2009, health care boards or the department shall refuse to issue a license, certificate or registration and shall refuse to admit a candidate to sit for the examination if the applicant has been:

1. Convicted or plead guilty or nolo contendere to a felony violation regardless of adjudication of: chapters 409, 817, or 893, Florida Statutes; or 21 U.S.C. ss. 801-970 or 42 U.S.C. ss 1395-1396, unless the sentence and any probation or pleas ended more than 15 years prior to the application.
2. Terminated for cause from Florida Medicaid Program (unless the applicant has been in good standing for the most recent five years).
3. Terminated for cause by any other State Medicaid Program or the Medicare Program (unless the termination was at least 20 years prior to the date of the application and the applicant has been in good standing with the program for the most recent five years).

Nursing graduates taking the NCLEX-RN must be able to provide one or more of the acceptable forms of identification as described on the Testing Center's website (www.pearsonvue.com/nclex). For further information, see the Nursing Program in the Catalog.

College Disclaimer

Health Science graduates are subject to the laws, policies, and procedures of their respective regulatory or licensing boards. And these regulations are outside the control of the College. Students should read all guidelines and ensure that they can comply prior to seeking admission or persisting to completion of any program that requires licensure or certification from an entity not governed by the College.

Curriculum and Policy Changes

The Health Science policies and programs of study contained in this catalog and program student handbooks are not to be regarded as a contract between the student and the College. The College reserves the right to make curriculum changes as approved by the College’s curriculum approval process and/or policy changes, all of which must be approved by the College’s District Board of Trustees. The effective date of such changes is usually made at the beginning of each academic year; however, there may be occasions, when changes may be required within an academic year.

Graduation Requirements

Students must complete all courses in the degree or certificate program with a grade of “C” or higher and have an overall degree GPA of 2.0 or higher. It is important that students know the catalog requirements under which they will graduate. Health Science students have three options:

1. If attendance has been continuous (Term I and II each year), the student may graduate under the catalog in effect at the time or entry into the College or the one in effect at the time of graduation.
2. If attendance has been interrupted by one or more terms (not including Term III—Summer), the student must meet college requirements for either the catalog in effect at the time of re-enrollment or the catalog in effect at the time of graduation.
3. Health Science students may meet graduation requirements in effect for the catalog year in which they entered the program. I suggest deleting #1-3 and referring the students to the catalog statement on p.84, “Applicable Catalog”.

Students should consult with an Academic Advisor or Counselor every term to assure successful progress toward completion of the chosen Health Science certificate or degree.
Health and Accident Insurance
Any student who is assigned to a clinical facility may be exposed to environmental hazards and infectious diseases. It is strongly recommended that each student carry health insurance to avoid any untoward expenses related to medical care. Health insurance is not offered by the College.

Limited accident insurance is provided for Health Science students at the time of registration in clinical courses each semester for a nominal fee. This insurance provides coverage for injuries sustained while participating in Health Science classes, labs and/or clinical training.

Health Examination
A Medical History and Physical Health Form must be completed at the time specified by the program. Final acceptance or continuation in a program will be contingent upon the results of the physical examination. A student may not enroll in a clinical course unless the Health Form has been submitted then reviewed by the program for completion of all listed requirements. Forms for each Health Science program are available online.

Liability Insurance
Professional liability insurance is required of all Health Science students each term that they are enrolled in a clinical course. The fee for liability insurance coverage is non-refundable and is charged each semester when the student registers for the first clinical course during an academic year.

Registration/Audit
A student must be admitted to a program and be registered in the course to attend any Health Science class. No student may audit a Health Science course without the permission of the appropriate Health Science Associate Dean or Program Manager.

Substance Abuse Policy Statement
All Health Science programs are committed to maintaining an environment that is free from substance abuse. Any student who is convicted under a criminal statute for a drug-related offense is required to notify his or her Dean or appropriate representative not later than five (5) days after such conviction. Failure to comply with this policy by any student will constitute disciplinary actions.

A student who is unable to perform clinical activities with reasonable skill and safety to patients by reason of illness, or use of alcohol, drugs, narcotics, chemicals, or any other type substances, or as a result of any mental or physical condition, shall be required to submit to a mental or physical examination. The physician or health care practitioner must possess expertise to diagnose the impairment and be approved by the program. Cost of the examination will be borne by the student. Failure to submit to such an examination may result in dismissal from the program. Refer to College Policy 6Hx2-5.18 and Procedure A6Hx2-5.18 on Substance Abuse.

Students will be asked to leave a clinical site or classroom/lab with an unexcused absence if they appear to be impaired or under the influence of drugs or alcohol. Safe transportation from the clinical site will be borne by the student. Chemical abuse offenses may result in dismissal from the program.

Transfer
Students who wish to transfer Health Science credits from another college should contact the appropriate program for a copy of its policies and procedures related to transfer of credit. Science courses such as Anatomy and Physiology which were completed more than 10 years ago may not be acceptable for transfer. Students should meet with the Program Manager or Associate Dean of the program of interest to determine if the course(s) will need to be repeated. Transfer students must meet the College’s requirements for graduation as stated in Policy 6Hx2-4.22

Transportation
Students must have reliable transportation to/from Broward College and to/from an assigned clinical facility. Neither the College nor any clinical facility will provide transportation. The student assumes all risks and responsibilities for travel to/from clinical sites and required or optional field trips.

Uniforms
Each Health Science program has its own uniform. Students must purchase uniforms that meet the approval of the appropriate Health Science program. Information regarding uniform guidelines is given to each applicant following admission to a program.

Withdrawal/Failure
Any Health Science student who fails a course, fails to maintain the appropriate GPA, or withdraws from a Health Science program during his/her first semester shall follow the specific program guidelines regarding the readmission. Re-enrollment will be based on the criteria and procedures in effect at the time of readmission and space availability.
Additional requirements may also be applied to students who have previously failed. Refer to College Policy 6Hx2-5.33 and Procedure A6Hx2-5.33 about Re-entry into a Health Sciences Program or program guidelines.
The Holcombe Institute for Teaching and Learning Excellence

Accelerated Learning Opportunities

- Dual Enrollment
- Early Admission
- Home Education Students
- Advanced Placement
- CLEP
- International Baccalaureate
- Tech Prep
- The College Academy
- Experiential Learning
- Armed Services Educational Credits
Accelerated Learning Opportunities

High School Accelerated Opportunities

Eligible high school and home education students may apply for admission to BC and enroll in college-level courses to increase learning and shorten the length of time needed to acquire a college degree. Special application and approval procedures apply to students in all BC accelerated programs. Written authorization from the principal, guidance director, and parent or guardian is required for Dual Enrollment and Early Admission. The eligible student’s application and matriculation fees will be waived for Broward County Public School students, home education students, and many private high school students. Credits are also awarded for certain scores on national examinations.

If a student desires to continue at BC, a re-entry application, changing the admission status, must be completed.

Home education dual enrollment students may participate in the dual enrollment program at BC for two consecutive years of academic instruction or until the end of the term in which the student reaches the age of 19. After the two consecutive years are completed or the student turns 19 (whichever occurs first), the home education student may not be admitted to BC as a dual enrollment student unless otherwise provided by law.

College Course-level Outcomes and Expectations

- Any letter grade below a “C” will not count as credit toward satisfaction of the requirements in Rule 6A-10.030, F.A.C. All grades are calculated in a student’s GPA and will appear on the student’s permanent college transcript, including “W” for withdrawal. Grades of “D”, “F”, and/or “W” may affect subsequent postsecondary admission. Careful course selection is highly recommended.
- While appropriate for college-level study, course materials and class discussions may reflect topics not typically included in secondary courses; parents may object for minors. Courses will not be modified to accommodate variations in student age and/or maturity.
- To minimize student costs for excess hours, parents/students should select courses to meet high school graduation and college degree requirements, including approved program common prerequisites. General education courses are strongly encouraged.

Attendance Requirements

Eligible public and non-public high school students who have been certified by their principals as qualified to dually enroll in courses may attend Broward College. It is the students’ responsibility to attend all classes in which they are enrolled. High school students are responsible for completing the proper college process and notifying their high school if they choose to withdraw from a course. Each faculty member is required to report non-attendance throughout the term up to the 60% period. When students do not attend class up to the 60% period, the student can be unofficially withdrawn from the course by faculty based on the class attendance policy, or the student’s non-attendance. The high school is responsible for advising the student each semester; at which time the student’s eligibility for enrollment in specific approved courses at Broward College must be verified by the high school principal.

To Apply

Students who wish to enroll in an accelerated learning program must submit the following documents to a campus Admissions Office prior to registration.

- A completed application.
- A confidential recommendation form signed by the principal or designee.
- Test scores for ACT, SAT, or the Postsecondary Education Readiness Test (PERT). The PERT is administered in the Testing Centers at each BC campus.
- An official copy of the transcript of credits earned to date, provided by the high school, for purposes of advising, counseling and GPA verification.

Dual Enrollment

This program offers high school juniors and seniors a unique opportunity to enroll in BC courses for high school and college credit. High school students who have completed 11 credits prior to the fall term and 13.5 credits prior to the
winter term may concurrently enrolled in post-secondary courses creditable toward a vocational certificate, diploma, or an associate, or baccalaureate degree provided they meet program rules and regulations. Students participating in dual enrollment options must meet the following entrance eligibility requirements: (1) enrolled in a course of study which will fulfill requirements for high school graduation; (2) 3.0 cumulative unweighted GPA and; (3) minimum standardized college placement scores. Students may not earn more than 12 credits of dual enrollment unless they have passed all three sections of the CPT (PERT will replace the CPT in the Fall 2010) or have appropriate SAT/ACT scores. Students without appropriate entrance exam scores and appropriate GPA may enroll in SLS 1001 only. In order to continue in the program, students must maintain a 3.0 unweighed GPA in their high school academic work and earn a 2.0 GPA or better in college-level work as confirmed by their high school guidance director and BC's registrar's office. Student may enroll in a maximum of 11 dual enrollment credits per semester.

Early Admission
High school seniors may enroll full-time in college and receive high school and college credit for courses. Students must enroll in two consecutive terms carrying a minimum of twelve college-level credit hours each major term not to exceed thirty credit hours for two consecutive terms, and maintain a grade point average of 2.0, in order to receive a high school diploma. To be eligible for the Early Admissions program students must meet the same requirements as for Dual Enrollment.

Advanced Placement
BC cooperates fully with accredited high schools and colleges in the Advanced Placement Program of the College Board. Advanced Placement courses are challenging, college-level courses that are designed to parallel typical freshman and sophomore-level courses. Advanced placement exams are taken after students complete the corresponding Advanced Placement courses, which are available to juniors and seniors in most Broward County high schools. To qualify for college credit, students must earn an appropriate passing score on the nationally administered exam. Credits will not be awarded for examinations that duplicate course work or other exam credits previously posted to a student’s academic record. In order to award credit, Broward College requires an official grade report, sent directly to the College from College Board, not a student copy.

Students are awarded credits only. Grades are not given for advanced placement courses. Therefore advanced placement courses are not included in the grade point average. More information about Advanced Placement, including descriptions of courses and sample examination questions, is available online at www.collegeboard.com/ap.

Recording Fee
Broward College charges a $5.00 recording fee for Advanced Placement courses to be entered on a student's transcript. This must be paid to the campus cashier before the course will be listed on the student’s transcript.

For more information about Accelerated Learning, log on to www.broward.edu or contact an Enrollment Services Officer at any campus listed below.

- North Campus (954) 201 2922
- Central Campus (954) 201 6571
- South Campus (954) 201 8838
- Willis Holcombe Center (954) 201 7321
- Pines Center (954) 201 3603

College Level Examination Program (CLEP)
The College-Level Examination Program (CLEP) is a series of tests developed by the Educational Testing Service and offered at test centers throughout the country. The CLEP program provides an opportunity for students to demonstrate competency in certain subjects and thereby earn college credit for particular courses without attending classes. Students seeking CLEP credit at Broward College but do not wish to become BC students must submit a non-credit admissions application to the Admissions/Registration Office. Individuals wishing to become BC students and receive CLEP credit must apply to Broward College and pay the non-refundable application fee. Former BC dual enrollment students must submit a Re-Entry application but do not pay the application fee. BC's CLEP code number is 5074.

CLEP tests are administered throughout the year at any of the three campus testing centers at specific testing dates and times.
CLEP credit cannot duplicate regular college course credit already earned, Dual Enrollment credit, or other credits earned through examination. Letter grades are not awarded for CLEP courses, and CLEP courses are not included in the GPA for term enrollment credit hours.

The CLEP tests are offered in addition to the BC Experiential Learning which provides for the assessment of prior learning and awarding of credit for many other BC courses. Courses for which credit is awarded is not included in BC enrolled credit hours and are not eligible to meet in residence requirements for graduation. Contact the Associate Vice President for Student Affairs/College Registrar’s Office for additional CLEP information.

Other Nationally Standardized Tests
Broward College awards credit based on receipt of specific passing grades on Dantes Subject Standardized Tests (DSST) and Excelsior College examinations. Credit awarded may not duplicate ordinary credit, Dual Enrollment credit, or other credits earned through examination at the institution. Students seeking credit for Dantes or Excelsior College exams must be admitted to the College.

International Baccalaureate Program
The International Baccalaureate Program is a challenging curriculum offered in high schools that is designed to prepare students for advanced coursework in many countries’ postsecondary systems. Students with IB diplomas have been assessed in several subjects and have fulfilled certain other requirements, such as an extended essay. An official IB transcript is required and must be received directly from the International Baccalaureate Office in New York. Students are awarded credits only. They are not given grades for IB courses; therefore IB courses are not included in the grade point average.

Career Pathways Program
Career Pathways (formerly Tech Prep) links secondary and postsecondary technical education programs of study. High school or technical center students who complete a technical program of study will receive training for high skill, high wage occupations. At the same time, they can begin earning Broward College or technical center credits. Students are encouraged to take rigorous academic courses along with the Career Pathways program and maintain a “C” or higher grade point average.

Students must complete a technical program at the high school or technical center, and meet the articulation agreement requirements, which include a comprehensive assessment to validate required technical competencies. The number of credits that will be awarded and the type of assessment that will be used are outlined in the technical education articulation agreements established between Broward College and Broward County Public Schools. Credit will be awarded once the student has been accepted to Broward College and enrolled in a program of study. The credits will be valid for 18 months after high school/technical center graduation.

Career Pathways Program Areas include but are not limited to the following:
- Accounting Technology
- Automotive Technology
- Business Administration Programs
- Early Childhood and Education Program
- Computer Science Technology
- Diversified Cooperative Training
- Engineering Technology Program
- Health Sciences
- Hospitality/Travel & Tourism
- Industrial Management Technology
- Marketing
- Office Systems Technology Programs
- Restaurant Management

For more information about Career Pathways, please contact Broward College Career Pathways Office.

The College Academy
The College Academy, located on the central campus, is a joint venture between the School Board of Broward County and Broward College. It is an accelerated college program for Broward County eleventh and twelfth grade students. This dual-enrollment secondary school was created for students who desire an alternative to the traditional high school program. Students are provided the opportunity to receive a high school diploma and an Associate of Arts degree concurrently. Specific pre-admission requirements must be met to establish eligibility. Tuition and books are provided free of cost for College Academy students. While attending The College Academy, students are enrolled in both dual enrollment and high school courses, taking
approximately 12 college credits per semester. Students must attend the fall, winter, and first summer terms. Those planning to earn their AA degree while still in high school may need to complete additional dual enrollment coursework during the second summer term. Students must maintain a 2.5 unweighted high school grade point average in order to remain at The College Academy.

The College Academy is designed for students who have the maturity required for college campus life, the discipline to use their time wisely, and the academic ability to handle the rigor of college work.

Since Broward College, and therefore College Academy, is a public space and open access campus (open to the general public), the Jessica Lunsford* rules that exist for traditional public schools cannot apply for College Academy.

* Jessica Lunsford Act obliges all personnel who are in contact with students to undergo a state and national fingerprint-based criminal history check.

For further information, contact The College Academy at www.collegeacademyatbcc.org or (754) 321 6900.

**Experiential Learning**

Experiential Learning, developed primarily for working adults, is designed to recognize the academic value of what students have learned through experiences outside the college classroom. Credit for experiential learning may result from work experience, employment-related training programs and seminars, volunteer work, travel, military service or intensive self-directed study. If students have gained BC course-equivalent knowledge, competencies, and/or skills as a result of prior learning experiences, they may be able to earn academic credit through the Experiential Learning for lower division and upper division coursework.

**Assessment Process**

The assessment process is sometimes referred to as "challenging a course." Assessment may involve one or more of the following:

- written or performance tests
- preparation of a portfolio that describes student learning and how it was acquired
- evaluation of student certificates and licenses
- interviews with faculty members

The method of assessment is determined by College faculty members that are responsible for the courses for which students wish to receive credit.

Experiential learning credits are not available for all BC courses. Students who have been admitted and who have decided on an academic program may challenge courses through Experiential Learning. Students can obtain information from the academic department(s) responsible for the course(s) that the student wishes to challenge. Students who receive permission to challenge a course from an authorized faculty assessor must pay the required assessment fees and satisfactorily pass a faculty-administered learning assessment before credit can be awarded.

The assessment process may take from several hours to several months, depending upon the amount of credit requested and methods of assessment required. When the process is completed, assessment results will be forwarded to the College's District Academic Affairs Office, which verifies that assessment documentation is complete and informs the Associate Vice President for Student Affairs/College Registrar's Office of the amount of credit the student has earned.

Although there is no limit to the number of hours that students can receive through Experiential Learning, 25% of credits required for a degree must be earned by taking classes at BC to satisfy in residence requirements for graduation.

Assessments are generally not scheduled between semesters or during the first or the last week of each semester. Results of assessments initiated during the last week of any semester may not be posted to student transcripts for that semester. Students who wish to use Experiential Learning credits to satisfy same-semester graduation requirements, course load requirements, transfer requirements, or registration pre-requisites should plan to complete their assessments well before the end of the semester in which they want the credits to be posted.

Experiential Learning credits appear on student transcripts as “CR.” Letter grades are not
awarded for Experiential Learning. Credits earned through Experiential Learning satisfies graduation requirements but may not be accepted as transfer credits at another institution. Students planning to transfer to other institutions should contact the college or university to determine if Experiential Learning credits are accepted.

For more information, contact the the appropriate academic department(s) or the Associate Vice President for Academic at 954-201-7279.

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**Armed Services Educational Credits**

Broward College will grant credit for evaluated military education that has been recommended as suitable for postsecondary credit by the American Council on Education's Guide to the Evaluation of Educational Experiences in the Armed Services. The credits will be awarded in the same manner as Experiential Learning credits. After enrollment in the College, a student with military education may follow the process for Experiential Learning by initiating a request to the appropriate academic department(s).
Online Learning Opportunities

- Online Degrees and Courses
- Blended Degrees and Courses
Online Learning Opportunities

One of Broward College’s goals is to provide access to classes when a student wants and needs them. Online and blended courses are some of the many ways BC makes education accessible and promotes a successful learning environment.

BC’s online and blended courses and degree programs are designed for motivated, self-disciplined students whose schedules do not permit them to attend regularly scheduled meetings on campus, for students who prefer to study independently, or for students who prefer a blend of online and on-campus learning.

Cutting edge online courses have the same start and end dates as on-campus classes, but students can log in anytime, anywhere to read content, take part in class discussions, upload assignments, email the professor, and take quizzes. Online courses have few, if any, on-campus requirements. Blended courses combine on-campus with online learning, reducing, but not replacing on-campus attendance requirements.

Fully Online Degrees
Several A.A. and A.S. degree programs can be taken entirely online. A number of certificate programs are also available in a fully online format. For a complete list of available degrees and certificates, see the Broward College Online website.

Online Courses
Online courses are a great way for students to complete degree requirements while juggling work and/or family responsibilities. However, online learning requires self-discipline and well-developed study skills. A self-assessment, available on the Broward College Online website, will help you determine if online learning might be right for you. Some online courses may require limited on-campus meetings for orientations, labs, and proctored tests. On-campus meeting requirements (if any) are listed in the course schedule, Course Preview Page and in the course syllabus.

All online courses are college credit equivalents to courses taken in a classroom. Online courses can be used to meet A.A. degree requirements, as well as requirements in a number of A.S. and technical certificate programs. The cost of tuition is the same as for on-campus courses; however, students enrolled in online courses are assessed a distance learning fee. Enrolled students may register for online courses on the college’s website or may register on campus.

Blended Courses and Programs
Blended courses combine traditional on-campus learning with online learning. Blended learning classes replace some of the time that would normally be spent in a classroom with online learning activities. Blended courses are a good choice for students who enjoy both online and on-campus learning but cannot spend as much time on campus as would be required for a traditional course. Some blended courses are offered in an accelerated format that permits students to complete courses in a shortened time frame.

Blended programs either consist of some online courses and some on campus courses, or offer all the courses in the program in a blended format. For a complete list of available degrees and certificates, see the Broward College Online website.

Getting Ready for Class
You can log in to your online or blended class on the first day of the term, but before classes start, you should read the Course Preview Page for the course(s) for which you registered. Preview Pages include important documentation that you need to know before the class actually begins such as information about required textbooks and supplies, mandatory on-campus meetings or exams (if there are any), and information about the class orientation.

For more information about BC’s online learning program visit the website at http://www.broward.edu/elearning, email BCOnline@broward.edu, or call 954-201-6564.
Course Placement, Educational Planning, and Registration

- Testing and Course Placement
- College Preparatory/Development Education
- English for Academic Courses Instruction
- Educational Planning
- Advisement
- Registration Information
- Online Course registration
- Registration Holds
- Dropped Courses
- Course Withdrawals
- Audited Courses
Course Placement, Educational Planning, and Registration

Placement Testing

As part of the admission process, all degree-seeking students (A.A., A.S., A.A.S.), including transfer students whose achievement level has not been certified, shall be assessed in writing, reading and mathematics to establish their communication and computation achievement levels.

Placement Test Options

First-time-in-college students, admitted after October 1, 1991, must present test scores, not more than two years old, on one of the following State-approved placement tests.

1. ACT (American College Testing Program)
2. Enhanced ACT (American College Testing Program)
3. SAT (The College Board)
4. SAT1 (The College Board; administrations between 3/1/94 and 3/31/95)
5. RSAT (Recentered SAT)
6. CPT (Computerized Placement Tests, The College Board)
7. Postsecondary Education Readiness Test (PERT) as of March 2011.

Students' scores on ACT or SAT may exempt them from placement testing. Students who have not taken any of the above tests, or whose test scores on any of the above test are older than two years, must take the Postsecondary Education Readiness Test (PERT).

Placement in Courses

Student whose test scores meets or exceeds the stated cutoff scores writing, reading and math, may enroll in college-level English and Math courses.

When a student's score falls below the cutoff in one or more of those areas, the student must enroll in and successfully complete the appropriate college preparatory course prior to enrolling in college level English or Mathematics courses until their competency in these academic areas has been certified. Students enrolled in college preparatory courses may enroll in certain other college level courses concurrently.

Transfer students’ placement will be based on the official evaluation of credit earned at previous colleges. Placement testing may be required.

Degree-holding students will not be required to undergo placement testing upon submission of an official transcript from a regionally-accredited college. However, ESL students may be tested for placement.

Students whose primary language is not English, and who have less than two years of non-ESOL English classes in the United States, must take the Levels of English Proficiency (LOEP) to assess English proficiency. The LOEP test scores and a writing sample will be used for English Placement.

Non-degree seeking students shall be required to take the placement test prior to enrollment in English or Mathematics courses or other courses that require English, Reading or Mathematics as pre-requisites.

Certificate/Diploma Programs

Students enrolling in selected Vocational Certificate and Applied Technology Diploma programs are required to submit scores, less than two years old, from the Test of Adult Basic Education (TABE). Students who do not meet the required TABE scores, as defined by Florida State Board Rule, can begin coursework in a certificate/diploma program, but must complete remediation of skills prior to graduation from the program. Remediation is available in all campus Learning Resource Centers. Once study is completed, students must retake the TABE and present passing scores in all areas to graduate with their certificate/diploma. TABE Testing is available on each campus. Contact a campus Testing Center for TABE testing information or visit the College website.

Students who have previously completed college preparatory instruction, passed college-level English and Mathematics courses, or hold a degree, should see an Academic Advisor/Counselor for possible TABE exemption.
College Preparatory/Developmental Education Program

Broward College is committed to the philosophy that all students should be offered the opportunity to achieve their maximum potential. To attain this goal, BC offers a College Preparatory Program to help students develop the skills necessary for academic success in college level courses. The College Preparatory curriculum includes courses in Mathematics, English, Reading and English as a Second Language (ESL).

College Preparatory Courses  Students whose placement scores do not meet the required college level must improve their skills before enrolling in college-level English, Math and Science courses. The College offers a series of preparatory courses in English, Reading, Mathematics and English as a Second Language.

The preparatory courses are designed to assist students in acquiring skills necessary for succeeding in college-level courses. While the courses do not carry credit toward graduation, students must pass the courses, including exit examinations, in order to graduate. Students can attempt college preparatory courses twice. The third attempt will be subject to the full cost of instruction.

<table>
<thead>
<tr>
<th>Math</th>
<th>English</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 0018</td>
<td>ENC 0015</td>
<td>REA 0007C</td>
</tr>
<tr>
<td>MAT 0028</td>
<td>ENC 0025</td>
<td>REA 0017C</td>
</tr>
<tr>
<td>MAT 0022</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ESL

Communication Reading Composition
EAP0100C  EAP0120C  EAP0185C
EAP0200C  EAP0220C  EAP0285C
EAP0300C  EAP0320C  EAP0385C
EAP0400C  EAP0420C  EAP0485C

Placement into the College Preparatory/Developmental Education Program

College preparatory course requirements are determined on the basis of a student's placement test scores. All students entering BC must take the Florida Postsecondary Education Readiness Test (PERT), or submit a State of Florida college-ready diploma or acceptable Advanced Placement score, SAT or ACT scores that exempt them from the college preparatory program or they must submit college transcripts that show the completion of Freshman English and/or Intermediate Algebra. Students who test into college preparatory courses must successfully complete all of the required coursework to qualify for graduation. Students should contact any Academic Advisement Office to arrange for placement testing or to discuss their existing placement test scores.

A student having an initial PERT, CPT, ACT or SAT score that indicates college preparatory placement and who has begun his/her preparatory course work at BC may retest with the PERT for placement every 90 days. A fee will be charged for each re-test with the PERT.

College Preparatory Credit

College preparatory courses carry credit, but the credits cannot be used to satisfy degree requirements. Students can use veteran’s benefits and Federal financial aid to assist in paying for these courses up to a maximum of 30 credit hour. These credits do not count in determining academic progress for students to remain eligible for financial aid. However, these credits count in the students’ term and cumulative GPA averages and in the attempted and earned credit hours on the students’ transcript.

Some other forms of financial aid, including Bright Futures Scholarships, do not cover tuition for college preparatory courses. Students should check with the Student Financial Services Office for additional information.

Enrolling in College Preparatory Courses

Students who are required to take college preparatory courses, as a result of their placement test scores on the SAT, ACT, CPT, or PERT must register for such courses each term until all required courses are successfully completed. In addition, the following restrictions for course sequencing will apply and increase a student's chances for academic success:

- Students who test into two or more college preparatory disciplines (ENC, MAT, and REA) are limited to 12 credits in a full term and seven credits in a summer term.
- Students are required to register for the college preparatory reading course during their first term.
Students who test into REA0007C are required to register for the course during their first term.

Students who test into REA0017C are required to register for the course during their first term.

Students are required to take the highest level of preparatory reading (REA0017C) the term immediately after successful completion of the lowest level of college preparatory reading (REA0007C).

Students testing into three college preparatory disciplines (ENC, MAT, or REA) are required to satisfactorily complete the college preparatory reading sequence (REA0007C and/or REA0017C) before registering for a college preparatory math course (MAT0018 or MAT0028).

Students testing into at least two college preparatory disciplines (ENC, MAT, and REA) are required to take SLS1501, College Success Skills, during their first 9 credits. (This one credit course serves as an introduction to BC and teaches students strategies and skills to help them succeed in college.). Students may substitute SLS1001, Strategies for Success, for SLS1501.

Students testing into three college preparatory courses are required to take SLS1001, Strategies for Success, during their first 6 credits. (This three credit course provides students with opportunities to learn about Broward College and higher education, acquire and practice learning strategies, explore personal learning styles, identify career options, and develop life-long citizenship.)

These requirements apply to college preparatory students who are seeking degrees and have not previously attended college. Students must meet with an Academic Advisor in any Academic Advisement Office regarding proper course selections, sequencing, and requirements.

Alternative Providers for Preparatory Instruction
Students can seek methods other than the College’s preparatory courses for improvement of skills.

Students have the option of pursuing college preparatory instruction through programs offered by private providers of instruction. Students interested in this option should obtain additional information from any campus Student Affairs office. Students exercising this option must retake and pass the appropriate sections of the PERT, the Postsecondary Education Readiness Test, prior to enrolling in college-level courses.

Note: Private providers are not affiliated with BC and the College neither endorses nor warrants their services. BC assumes no responsibility related to the operations of these providers, and specifically disclaims any and all liabilities resulting from, or arising out of, or in connection with, students’ use of their products and services.

Maximum Attempts Per Course
Based on state regulations, students may enroll no more than three times in any particular college credit or preparatory course. Students may not “audit” college preparatory courses. Students will be assessed the full cost of instruction for the third attempt. Exemptions may be granted based on documented financial hardships or extenuating circumstances. Details about petitioning for an exemption are available in any campus Dean of Student’s Office.

English as a Second Language (ESL)
The purpose of the ESL Program is to prepare non-native English speaking students to function successfully in BC courses.

Entering the ESL Program
Students who are non-native English speakers should contact any Academic Advisement Office for an appointment. An ESL placement test and writing sample will be administered to all students, regardless of their TOEFL score. Students will be placed in ESL Program courses based on the results of the ESL placement test and writing sample.

Course Load for Visa Students
Visa students must take a full course load minimum of 12 credits or more in order to maintain a student visa. During their first and second semesters at BC, Visa students should concentrate on the ESL Program and take a limited number of other courses.

ESL Course Sequences
Non-Credit Courses: do not carry college credit.
Level 1: EAP0100C, EAP0120C, and EAP0185C
Level 2: EAP0200C, EAP0220C, and EAP0285C
Level 3: EAP0300C, EAP0320C, and EAP0385C
Level 4: EAP0400C, EAP0420C, and EAP0485C

Credit-Bearing Courses: carry elective credit.
Level 5: EAP1540C
Level 6: EAP1640C

ESL Pre-requisites
EAP0100C is a pre-requisite for EAP0200C.
EAP0200C is a pre-requisite for EAP0300C.
EAP0300C is a pre-requisite for EAP0400C.
EAP0120C is a pre-requisite for EAP0220C.
EAP0220C is a pre-requisite for EAP0320C.
EAP0185C is a pre-requisite for EAP0285C.
EAP0285C is a pre-requisite for EAP0385C.
EAP0400C, EAP0420C and EAP0485C are pre-requisites for EAP1540C.
EAP1540C is a pre-requisite for EAP1640C.

*Note: An ESL student must successfully complete all three 0400C level courses before entering EAP1540C.

Educational Planning
A key factor in student success is having a sound educational plan to guide decisions about what courses to take and when. With an educational plan, students also have an idea of when degree requirements for graduation will be complete. Academic Advisors and Counselors are available to assist students with the development of an educational plan based upon personal and career goals, test scores, previous high school and college course work, and current lifestyles. A recommended course of study is developed for each student to use as a guide for course selection while attending BC.

All students are required to have an educational plan prior to the end of their second enrolled semester.

Advisement
All first-time-in-college students enrolling at BC are required to complete an Advisement and Registration session prior to registering for courses. The session provides students with important College information that will aid in meeting their educational goals. Add the new advisement statement from State relative to excess hours.

Registration
Continuing students may register online or in person at the campus Registration Offices using their assigned student ID and PIN.

Student ID Number
A student ID is a system derived identifier that is used throughout the BC student information and web-based systems.

PIN Number
The personal identification number (PIN) is the student’s access into their “myBC” student portal at Broward College. The initial PIN is set as the birth month and year (MMYYYY). It is important that the PIN number is not revealed to anyone. If it is suspected that the PIN is not secure, change the PIN online to ensure academic records security. If a PIN number is lost or forgotten, or if the default PIN does not appear to work, present a picture ID to acquire the correct code at any of the campus Enrollment Services Offices.

Online Registration
Register on the web by following eight easy steps. From the Broward College home page:

1. Enter the student ID and PIN number at “myBC” (Your student ID number is the assigned number with no dashes. Your PIN number is initially set to the birth month and birth year: MMYYYY).
2. Click on registration.
3. Click on Add/Drop
4. Select a term.
5. Search for classes by course number, reference number(s) or open classes by clicking on the appropriate circle.
6. Select a class then click “reference number” To remove a class, click on the “Drop Course” box.
7. When finished selecting classes, click “Save” to complete registration.
8. Print the schedule and payment information, click on the “Logoff” box.

Additional Registration Facts
Schedule of Classes
Term schedules are available on-line via myBC.
Registration Dates
Registration dates are published online for all students and are also available via myBC for current students.

Schedule Changes
During registration periods, students may add courses until the actual class begins if the course is not full.

After the term begin, students may “drop” courses until the last day of the “drop” with a 100% refund date published on the College calendar online and in the catalog.

Anytime thereafter, students may “withdraw” from courses until the last day of the published “withdrawal” period at the 60% point in the term. After 100% date, students are considered to be enrolled and responsible for the students.

Student financial aid is based on course enrollment; therefore, any changes in enrollment through the 60% published date on the College calendar will impact a student’s financial aid award.

Registration Holds
A registration hold may be placed on a student’s record that will prevent the student from registering until action has been taken to resolve the issue. If students are unable to register online, it is their responsibility to contact the College Office or other relevant office promptly to determine the cause of the problem and resolve it in a timely manner. Students may see what registration holds, if any, they may have by logging into their “myBC” account. Typical holds include missing transcripts, unpaid student fines, discipline or other violations, incomplete records, academic warning, probation, and suspension or a requirement to meet with a college official prior to registration.

Auditing a Class
Auditing a class allows students to enroll in a class for no credit. No grade is awarded for audited courses. The transcript will indicate a grade of “X.” Students must contact the instructor to learn of any requirements regarding attendance, class participation and assignments. A student may only change to or from an audit status during the designated drop/add period for each term. Changing from credit to audit may be done with the instructor’s approval through the scheduled last day to change from credit to audit as listed in the academic term calendar. Audits count as an attempt if enrolled after the drop/add period.

Course Withdrawals
All courses removed from a student’s schedule before the 100% refund date are considered “dropped” courses and will not be indicated on the students’ official transcript. Schedule changes after the 100% refund date are considered withdrawals and a (W) will appear for withdrawn courses. Students can initiate course drops or withdrawals online. If a student wants to withdraw from a course or from the College they can also see an Enrollment Services Officer on any campus. All withdrawals that students initiate are considered “official” withdrawals. The last day to withdraw without grade penalty is on or before the 60% point in any given term or session. Withdrawals after that date are not allowed.

Students who stop attending class prior to the 60% point in the term and do not withdraw themselves, faculty may “unofficially” withdraw students from the course for non-attendance or failure of adhering to their attendance policy. Students should read their instructor’s course syllabus for the grading and attendance policy. Faculty may record a grade of F for non-attendance or a W. Both official and unofficial withdrawals and F grades for non-attendance are acknowledged as valid by the College and have an impact on the students’ record. Students’ financial aid will be impacted by any change in enrollment status resulting in W, F and other unsatisfactory progress grades. See Financial Aid Section and College Policy for additional guidelines.
Online Educational Planning Tool

Area 12: (08G) International/Intercultural Min. Hours: 0.00 Min. Courses: 1

--- Completed/Enrolled ---
Completed/Enrolled: 0.0
Area Hrs Remaining: 0.0

What term am I taking courses for this Area?
No future terms have been selected for this area. Click the plus sign above to begin.

Select your terms for courses in this area
Course  Term  Course  Term
Add Online

Area 13: (09A) Writing Requirement Min. Hours: 0.00 Min. Courses: 4

--- Completed/Enrolled ---
Completed/Enrolled: 0.0
Area Hrs Remaining: 0.0

What term am I taking courses for this Area?
No future terms have been selected for this area. Click the plus sign above to begin.

Select your terms for courses in this area
Course  Term  Course  Term

*** Student Electives Toward Degree ***

Min. Hrs Required: 24.00
EAP140C  20063  A  3.0  FYT2012  20081  A  3.0
HSC110C  20083  A  1.0  COG110C  20063  B  3.0
ARH2000  20073  B  1.0  CHM1041  20082  B  3.0
PHL2600  20092  B  1.0  MTH2004  20101  B  3.0
STP2032  20101  B  3.0  HUM1200  20113  B  3.0
Completed/Enrolled - Additional GE and Elective Hrs: 26.00
Elective Hrs Remaining: 0.0

There are additional courses suggested for your Transfer Program. Click here to view them.

Online Advising Appointments

Welcome

Advising Appointment Search

You do not need to schedule an appointment if you are coming in for the following:
Veteran's Certification
Testing Information
Registration Blocks
Quick Questions (10 minutes)

Students seeking help with these issues can contact their campus Advisement office for Fast Track Advisement:
A. Hugh Adams Central Campus: 954-201-6628
Witherscombe Center: 954-201-7141
North Campus: 954-201-2793
Judei A. Samuels South Campus: 954-201-0675
Presidential Center: 954-201-7951

Campus where you want to be advised
Appointment Reason

Selection needs to be valid

Adviser
Lucy Martinez

Requested Date
Requested Time (Specify a.m./p.m.)
Student Fees and Policies

- Fees
- Florida Residency for Tuition Purposes
- Tuition Exemptions
Student Fees and Policies

Fees
The Board of Trustees, within guidelines approved by the Florida Legislature, establishes the student fee schedule at Broward College. It is subject to change within the academic year covered by this catalog. The current fee schedule is published on the College's website.

Students must pay applicable fees by the established deadlines. A student will be dropped from classes for failure to provide tuition payment by the established deadlines.

Application Fee
All new students must pay a one-time, non-refundable application fee of $35.00. A non-refundable $75.00 application fee is charged to international students.

Registration Fees
Fees and charges are subject to change as approved by the Board of Trustees.

Baccalaureate Degree Programs
Per credit hour:

Florida Residents
Tuition Fee $ 87.42
Student Activities Fee 8.74
Student Financial Aid Fee 4.37
Capital Improvement Fee 8.74
Parking and Transportation Access Fee 4.00
Technology Fee 4.37
Total $117.64

Non-Residents
Tuition Fee $ 87.42
Out-of-State Fee 353.80
Student Activities Fee 8.74
Student Financial Aid Fee 22.07
Capital Improvement Fee 44.14
Parking and Transportation Access Fee 4.00
Technology Fee 22.07
Total $542.24

Continuing Workforce Education
Per credit hour:

Florida Residents
Tuition Fee $ 92.15
Technology Fee 4.60
Total $96.75

Non-Residents
Tuition Fee $ 75.40
Out-of-State Fee 226.40
Student Activities Fee 7.50
Student Financial Aid Fee 15.05
Capital Improvement Fee 13.60
Parking and Transportation Access Fee 4.00
Technology Fee 15.05
Total $357.00

Educational Prep Institute
Per credit hour:

Florida Residents
Tuition Fee $ 75.40
Student Activities Fee 7.50
Student Financial Aid Fee 3.75
Capital Improvement Fee 7.50
Parking and Transportation Access Fee 4.00
Technology Fee 3.75
Total $101.90

Non-Residents
Tuition Fee $ 75.40
Out-of-State Fee 226.40
Student Activities Fee 7.50
Student Financial Aid Fee 15.05
Capital Improvement Fee 13.60
Parking and Transportation Access Fee 4.00
Technology Fee 15.05
Total $357.00

Vocational Certificate Programs (PSAV)
Per credit hour:

Florida Residents
Tuition Fee $ 75.40
Student Activities Fee 7.50
Student Financial Aid Fee 3.75
Capital Improvement Fee 7.50
Parking and Transportation Access Fee 4.00
Technology Fee 3.75
Total $101.90

Non-Residents
Tuition Fee $ 75.40
Out-of-State Fee 226.40
Student Activities Fee 7.50
Student Financial Aid Fee 15.05
Capital Improvement Fee 13.60
Parking and Transportation Access Fee 4.00
Technology Fee 15.05
Total $357.00
Florida Residents
Tuition Fee $ 69.90
Capital Improvement Fee 3.45
Student Financial Aid Fee 3.45
Technology Fee 3.45
Total $ 80.25

Non-Residents Tuition Fee $ 69.90
Out of State Fee 209.75
Capital Improvement Fee 13.95
Student Financial Aid Fee 13.95
Technology Fee 13.95
Total $ 321.50

Additional Course Fees
Additional fees are charged for select courses and laboratories. Special fees for individual courses are listed with the course descriptions in the back of this catalog and shown in the schedule of classes for each term. The Board of Trustees reserves the right to change published fees after publications have been printed.

Parking and Transportation Access Fee
All students will be assessed a parking and transportation access fee as part of their schedule which will allow them to receive a parking hang tag for use at any BC campus or center for the term paid. The exceptions include:

- Students who only attend the Miramar, Weston or Pines Centers
- Students taking only non-credit classes at the Willis Holcombe Center
- Institute of Public Safety Trust Fund Students
- Students in Continuing Education Vocational Certificate, and Continuing Workforce Education classes
- Health Science students who receive their training at a hospital
- PTA students at Edison Community College.
- Students who receive the following 100% fee exemptions are eligible to receive a parking hang tag (Foster Child, High School Dual enrollee, Early Admission, Child of Deceased Fire Fighter, Homeless, India Program, Singapore Program, Child of Deceased Law Enforcement Personnel). These students are eligible to receive a parking hang tag.

If a student can demonstrate that he/she does not use Broward College facilities at any campus or center, and does not fall into any of the categories above, a Parking and Transportation Access Fee Appeals Form must be submitted to any Campus Safety Office. The appeal form will be reviewed and, if approved, the Parking and Transportation Access fee will be exempted from the registration fees. The student will not be eligible for a parking hang tag. The deadline for submitting the appeal form is the last day for a 100% refund date. If there are any questions, please contact a campus Safety Office.

Economic Development Fees
The College, through Continuing Education and other academic departments, offers non-credit courses, seminars, and workshops designed to meet the needs of citizens of all ages who reside in Broward County. Special brochures and bulletins are developed and distributed covering the specifics of each course. These documents become supplements to the official catalog and contain special fees and special charges associated with each course. These fees are due and payable according to the terms indicated within those documents.

Health Science Fees
In addition to special course fees for laboratory and clinical courses, all Health Science students are required to pay the following at the time of registration for each academic year.

Health Science Education Accident Insurance $ 7.30
Health Science Education Liability Insurance $10.20

Academic Transcript Fee
Students may order official academic transcripts online through their myBC account. The following fee is assessed for each transcript.

Official Transcript Fee $5.00/transcript

Duplicate Diploma Fee
Upon completion of degree requirements, students are issued a diploma. Students who request a duplicate diploma is assessed a fee for each duplicate diploma.

Duplicate/Replacement Diploma $10.00/diploma

Fee Payment Information
Fees must be paid by the assigned fee payment due date. At the time of class payment, the student will
be required to pay any obligations (such as library fines and parking fines) or receivables in full.

Payment can be made with cash, credit card (VISA, MasterCard, Discover, and American Express), debit card, and check or money order made payable to Broward College.

There are three ways to remit payment:
- By credit card on the web
- By check or money order mailed to the Willis Holcombe Center Cashier’s Office (see check information below)
- By cash, check, money order, debit card, or credit card in person at a campus Cashier’s Office. The authorized user must be present for credit card and debit card payments.

Detailed instructions are provided in the Schedule of Classes and on BC’s home page.

Checks or money orders for payment of student fees must be made payable to Broward College and include the student’s identification number. Eligible checks will be converted to electronic debit transactions. Checks and money orders must be drawn on a U.S. bank in U.S. ($) dollars. Payments in non-U.S. funds and drawn on non-U.S. banks will be returned unprocessed. Counter (starter) checks are not accepted.

Checks and money orders may be mailed to:

Broward College
Willis Holcombe Center
Cashier’s Office, Bldg.33 room 108
225 E. Las Olas Boulevard
Fort Lauderdale, FL 33301

Payment of Student Accounts Due to the College
In accordance with Florida Statutes, Chapter 1010.03, the College is authorized to restrict the release of transcripts, the awarding of diplomas and access to other resources and services of the College.

When a receivable or obligation balance is due, a financial hold is immediately generated on the student’s record. This financial hold may prevent the release of transcripts, diplomas, certificates, and block future registration. The financial hold will remain on the student’s record until all debt is paid to the college in full. If an account is sent to a collection agency the debtor is responsible for all collection costs associated with the debt. Any educational debt must be specifically discharged in bankruptcy or the transcript can be held until the debt is paid. Examples of debt that will block registration include, but are not limited to, returned checks and the associated check fees and fines, credit card charge backs, tuition fee deficiencies, financial aid overpayments, bookstore charges, collection agency fees, and delinquent debt that is written off. Students will not be able to register until the debt is paid in full.

Third-Party Authorization
If all or part of the student’s registration fees are being paid by an external agency (employer, a government agency, military tuition assistance, etc.), the student must present the current form of authorization (letter, voucher, etc.) to a campus Cashier’s Office by the Fee Payment Deadline provided in the online Academic Calendar and the college catalog.

This authorization must be for the current term and must indicate a specific dollar amount for tuition, fees and/or books and supplies. Students are responsible for paying any remaining balance by the fee payment deadline. If the current authorization is not presented, the student’s account will not be credited properly and the student’s schedule may be deleted.

If the external agency revokes the authorization or subsequently denies payment for classes, fees and/or books and supplies included on the voucher or authorization letter, the student will be responsible for repayment by the bill due date.

Florida Pre-Paid Program
Students who are plan participants in good standing may apply their Florida Pre-Paid coverage via the web. The first time a student logs on each term, a web screen will alert the student that Florida Pre-Paid coverage is available. From this screen the student may opt to apply Florida Pre-Paid or continue without applying coverage for the term. The student will receive credit for the maximum amount that can be billed. Florida Pre-Paid credit is limited to the amount of credit hours remaining on the student’s plan. Students are responsible for paying any remaining balance by the fee payment deadline. If for any reason the College is unable to complete the billing process, the credit will be reversed and the student will be billed with an immediate due date. Students who have applied Florida Pre-Paid via the web but later elect not to
use it must call or visit a Campus Cashier’s Office to remove the Florida Pre-Paid coverage.

**State Employees Waiver**

Full-time employees of the executive, legislative or judicial branch of Florida’s government are eligible for a State Employee Waiver. Eligible employees may have tuition and course fees waived for a maximum of 6 credit hours per term and are required to register on a space-available basis as noted in the online Academic Calendar and College catalog. State employees must complete Broward’s Application process and pay the $35.00 application fee prior to presenting the State Tuition Waiver request at any campus Registration Office. Following registration in classes, State employees must visit the Campus Cashier’s Office to provide the State Tuition Waiver verification to receive the waiver.

**Returned Check Policy**

A returned check is a check that is not honored when presented for payment, and is returned to the College for insufficient funds, closed account or any other reason. The College does not redeposit paper checks. Check payments converted to electronic debit transactions are redeposited and the maker of the check may incur additional fees associated with the redeposit.

In accordance with Florida Statutes, Chapter 832.07, the College is authorized to bill the individual for the original amount of the check in addition to a check fine and bank fee. If the account is sent to a collection agency, the individual will be responsible for all collection costs. In the event of legal action for recovery, the maker or drawer may be additionally liable for court costs and reasonable attorney fees as prescribed by law.

Students with unpaid returned checks and the associated returned check fees and fines will not be able to register for classes until the debt is paid in full.

**Credit Card Chargeback Policy**

Dishonored credit card payments for tuition and fees will result in the student or individual being obligated and billed for all fees due. The student will be blocked from making future payments by credit card when a chargeback occurs.

<table>
<thead>
<tr>
<th>Length of Class</th>
<th>Deadline to drop with 100% refund</th>
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</thead>
<tbody>
<tr>
<td>8 weeks or longer</td>
<td>During drop/add period</td>
</tr>
<tr>
<td>Less than 8 weeks (but more than once)</td>
<td>Prior to the second class meeting</td>
</tr>
<tr>
<td>Class meets only once</td>
<td>Prior to the first class meeting</td>
</tr>
</tbody>
</table>

Fees categorized as refundable are tuition, out-of-state fees, other fees (financial aid fee, capital improvement fee, student activity fee, technology fee and service fee) and laboratory fees or special fees associated with a class. Refer to policy and procedure 6x2-6.13 for additional student fee information.

It is the responsibility of the student to drop classes on the Web or through a Registration Office within the 100% refund period. Students do not have to contact the Cashier’s Office to receive a refund. Through an automated process, refunds will be processed approximately two weeks after the final drop/add date for each session. Students who paid tuition and fees and then received a financial aid award, after attendance is verified in all classes, monies paid will be refunded when aid is disbursed and refunds are processed.

The refund may be issued in the form of a check or credit card refund depending on how the schedule was paid. A schedule that was paid by cash, check, money order or debit card will be refunded by the either check or another electronic form of payment utilized by the College. A schedule that was paid with a credit card will be refunded to the credit card. Those students whose classes were paid with financial aid may receive a refund pending a review of the student’s continued eligibility by the Office of Student Financial Services to determine the impact of any enrollment changes made by the student. If the student provides authorization, any outstanding debt owed by the student to the College can be deducted from any excess aid, but cannot exceed $200.

Students who are administratively withdrawn from course(s) for disciplinary reasons are not entitled to a refund. Students whose schedule was paid using Financial Aid funds, depending on the administrative withdrawal date, the student may owe money to the College for any unearned financial aid funds that were already paid to cover classes and any refunded to the student.
Refund for Continuing Education Courses
A 100% refund for continuing education courses shall occur up to the date of the first class for those classes meeting only once. A 100% refund for continuing education courses shall occur up to the second class period for those classes meeting more than once.

Refunds Due to Extenuating Circumstances
When a student is required to withdraw from all courses because of documented circumstances determined by the College to be exceptional and beyond the control of the student, and the student submits a petition for refund to the campus where the class(es) were taken during the term after the official drop period, but prior to the withdrawal date of the current term. A campus president or other senior administrator may approved a 100% refund if the documented circumstances warrant one. Such circumstances may include, but are not limited to, serious illness, involuntary call to active military duty, and other emergency circumstances or extraordinary situations. The Campus President or Senior Administrator may consider petitions for refunds outside the specified time frames.

Students have the responsibility to learn and comply with prerequisites and co-requisites for courses in which they are enrolled. When students are not in compliance and do not drop the course(s) by the College’s official drop period, refunds may not be given.

NOTE: Universities may consider the number of withdrawals when considering students for admission. Excessive withdrawals (W) and courses not related to students’ program of study could result in a higher tuition rate at public colleges and universities in the State of Florida.

Veterans Third Party Authorization
For Veterans claiming military Tuition Assistance as well as Post-9/11 GI Bill Chapter 33 education benefits, the same class(es) may not be paid by both Military Tuition Assistance and Chapter 33 benefits. Military Tuition Assistance may only be used to pay course costs that are not paid by Chapter 33 benefits first.

Refund of Fees to Veteran and Vocational Rehabilitation Students
Veteran students must adhere to the withdrawal policies as outlined in the college catalog. Students receiving Veterans benefits must complete all coursework each term to avoid being billed for withdrawing or dropping classes. If a veteran student does not attend class after the drop and add period in each session, the student will be withdrawn from classes or receive a failing grade for non-attendance. Withdrawing or dropping courses could result in termination of benefits and/or owing money to VA and Broward College. It is the veteran's responsibility to notify the Veteran Coordinator about withdrawing from any class at any point during the term. Veterans should register only for the courses which can be successfully completed. Dropping courses can affect a student’s enrollment and change the award resulting in an overpayment. This overpayment will cause the student to owe money.

Veterans who receive financial aid must adhere to the withdrawal policies affecting all financial aid students, including the Federal Return of Title IV Funds. This policy applies to any student who officially or unofficially withdraws from all Broward College classes during a term in which the student is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Educational Opportunity Grant, Academic Competitiveness Grant, Federal Direct Student Loans; Subsidized and Unsubsidized, and PLUS Loans.

If a student does not attend class within two weeks after the drop/add period in each session, the student will be withdrawn from classes or receive a failing grade for non-attendance. Students should not withdraw from any courses to avoid repayment of financial aid funds. See the Federal Return of Title IV Funds Policy below.

Federal Return of Title IV Funds policy
The Federal Return of Title IV Funds policy applies to any student who has officially or unofficially withdrawn from all BC classes in a term for which he/she is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Educational Opportunity Grant, Academic Competitiveness Grant, Federal Direct Student Loans; Subsidized and Unsubsidized, and PLUS Loans.

The Office of Student Financial Services will use the Federal Title IV formula to determine the percentage of funds that were “earned” for the portion of the term enrolled. If a student has received more aid than he/she earned, based on the withdrawal date from classes, federal law requires that the College must return the money to the Federal government. The student must repay the
College within 45 days of notification or lose eligibility for future federal aid payments. For copies of the complete policy on the Return of Title IV aid, please go to your campus Student Financial Services Office.

**Florida Residency for Tuition Purposes**

BC's tuition and fees are based upon status as a permanent legal Florida resident. In determining a Florida resident for tuition purposes, the burden of proof rests with the applicant. BC follows Florida Statutes F.S. 1009.21 and State Board of Education rules regarding residency for tuition purposes.

For tuition purposes, a Florida resident, or if a dependent child, his/her parent(s), must have established and maintained a legal residence in the state for at least 12 consecutive months immediately prior to the first day of classes. The applicant must provide clear and convincing documentary evidence that his/her length of residence, or if a dependent child, his/her parent(s) length of residence, was for the purpose of maintaining a bona fide domicile and not for the purpose of maintaining a temporary residence for tuition purposes. Each student is required to provide a statement of residency through the submission of a Florida Resident for Tuition Purposes Affidavit.

A dependent child whose parents are divorced or separated may qualify as a resident for tuition purposes if either parent is a legal resident of Florida regardless of which parent claims the child as a dependent for federal income tax purposes.

A dependent child living with an adult relative other than his/her parent(s) may qualify as a Florida resident for tuition purposes if the adult relative has maintained a legal residence in the State of Florida for 12 consecutive months immediately prior to the student's first day of classes. The dependent child must have lived with the relative for five consecutive years immediately preceding the term in which residency classification is being requested and confirmed by that relative as a "dependent" under the Federal Income Tax Codes.

The following categories will be considered as Florida residents for tuition purposes.

- Active duty members of the armed forces stationed in Florida, or whose home of record is in Florida, and their dependents.
- Full-time instructional and administrative personnel employed by a public educational institution and their dependents.
- Qualified beneficiaries under the Florida Pre-Paid Post-secondary Expense Program.
- Others as permitted by Florida statute or rule.

The applicant may be asked to submit the following documentation for himself/herself, parent(s) or the qualifying person.

- A copy of a Florida driver's license.
- Proof of continuous physical presence in Florida for 12 consecutive months immediately preceding the first day of classes.
- Proof of being self-supporting for the 12 consecutive months immediately prior to the first day of classes.
- Any other documentation required to support a claim of Florida residency for tuition purposes.

Any student who seeks reclassification as a Florida resident must complete and submit a Florida Residency Appeal form obtained online or through any BC Admissions Office. All Florida Residency Appeals will be reviewed by the Florida Residency Appeal Committee and a decision provided to the student in writing. At least three supporting documents must be submitted with the Appeal for reclassification prior to the first day of classes for the term in which reclassification is sought.

*Residency requirements are subject to change pending the decisions of the Florida Legislature.*

**Tuition Exemptions**

**Dual Enrollment/Early Admission**

The fee exemption provides awards to public high school students who have completed their junior year, with an overall high school GPA of at least 3.0, and have obtained written recommendation from both their high school principal and guidance counselor. The Early Admission student may apply to the Admissions Office to have all tuition and application fees exempted as well as book charges. The exemption is for a maximum of twenty-four (24) semester hours in accordance with Florida Statute, Chapter 1007.271.

**Foster Care Board Exemption**

A foster care student may have all matriculation and tuition fees exempted for a maximum of 32 credit hours per year. The exemption is for two years or four semesters, but can be extended for college preparatory courses. The student must apply for financial aid.
**Homeless Fee Exemption**
Any student who lacks a fixed, regular and adequate nighttime residence or whose primary nighttime residence is a public or private shelter designed for, or not ordinarily used as a regular sleeping accommodation for human beings shall be exempt from tuition and fees (see F.S. 1009.25(2)(e) and Section 239.117, Florida Statutes.

**Linkage Institute**
According to Florida Statute, Chapter 288.8175, linkage institutes between postsecondary institutions in the state of Florida and foreign countries allow designated foreign students to study in Florida at any State University or College. Students may receive in-state tuition rates enrolling in the Florida-Israel Institute (Florida Atlantic University and Broward College).

**Purple Heart/Superior Combat Decorations**
According to Florida Senate Bill 122 passed July 1, 2006, state universities and community colleges will waive tuition for recipients of the Purple Heart or other combat decoration superior in precedence who:

- are enrolled as full-time, part-time or summer-school students in an undergraduate program that terminates in a degree or certificate;
- are currently, and were at the time of the military action that resulted in award of the Purple Heart or other combat decoration superior in precedence, a resident of this state; and
- submit to the state university or the community college the DD-214 form issued at the time of separation from service as documentation that the student has received a Purple Heart or another combat decoration superior in precedence.
Student Financial Services

- Introduction and Locations
- Types of Financial Assistance
- Determination of Need and Eligibility Requirements
- Financial Aid Application Procedure
- Filing Deadlines
- Financial Aid Policies
- Veterans
Introduction

The Student Financial Services Office provides assistance to students who need financial aid to attend Broward College. The office is committed to quality customer service by providing accurate information and counseling to educate students and their parents about financial aid. The office awards funds to all eligible students in compliance with applicable laws, regulations and policies that govern federal, state, institutional, and foundation programs. We are committed to help students “Finish What You Start” providing that students follow the application/procedure steps in order to receive financial aid.

Student Financial Services Offices

A. Hugh Adams                 North Campus
Central Campus               Building 46, Room 251
Building 19 Lobby

Judson A. Samuels            Willis Holcombe Center
South Campus                Building 33, First Floor
Building 68, Room 116

Pines Center
16957 Sheridan Street

What is Financial Aid?

Financial Aid is assistance from federal, state, and institutional sources offered in the form of grants (Pell, Federal Supplemental Educational Opportunity Grant, Florida Student Assistance Grant, Financial Aid Fee (Merit and Need), scholarships (Institutional and Private), work programs (Federal and State), and loans (Federal Direct Subsidized - need based, Unsubsidized - not need based; Direct Plus Parent Loans; Private Loans). Students who qualify may expect to receive a financial aid award that will be a combination of sources. Financial aid helps fund an education while the student attends Broward College.

Financial Aid Application Procedure

Broward College strongly recommends that all students apply for financial aid regardless of their circumstances by going online to www.fafsa.gov.

Note: Students must apply for aid each academic year and are encouraged to apply early. The Federal application period for the Free Application for Federal Student Aid (FAFSA) opens after January 1, of each calendar year and closes 18 months later on June 30 of the following year. All information provided on the FAFSA is subject to verification by the Federal government-accuracy is important.

Financial Aid Deadline

For Financial Aid to be available by the tuition due date, and funds available for bookstore charges, students must complete the FAFSA and submit verification documents by the deadline for the term. Students attending Broward College for the first time must also be registered for classes or an Admission and Registration orientation session by the deadline. The 2011-2012 deadline dates are:

Fall 2011 - July 15, 2011
Winter 2012 - November 11, 2011
Summer 2012 - March 23, 2012

If the deadline is not met, students can still apply and submit forms, but will have to pay for tuition and books on their own. Students who pay on their own may be reimbursed depending on enrollment and eligibility.

Initial Eligibility Requirements

Although parents and students are expected to contribute to a student's educational expenses, the federal government does consider income, number of dependents, and other information when determining a student's financial need. Financial assistance is provided after a determination is made that the resources of the family are insufficient to meet the student's educational expenses.

Eligible students may receive a combination of grants, scholarships, work-study and loans as part of their financial aid package. Financial aid is based on an individual's financial need, college costs, and the availability of funds. To be eligible, a student must be:
1. A U.S. citizen with a valid Social Security Number;
2. An eligible permanent resident, or in the U.S. for other than temporary purposes and be able to provide proof of such;
3. Enrolled or accepted for enrollment in an eligible program leading to an, A.A., A.S., A.A.S., BS or a federally-approved certificate at Broward College;
4. Making Satisfactory Academic Progress in the selected course of study according to Broward College guidelines;
5. Registered with Selective Service, if required to do so (applies to males between the ages of 18 and 25);
6. Able to provide a valid high school diploma, GED or show ability to benefit. Ability to benefit requirements can be met with 6 credit hours of college credit that applies to the program of study, or with passing scores on the College Placement Test (CPT)
The student must also sign the statements of educational purpose located on the (FASFA).

Other Eligibility Criteria
The student must not:
1. Be in default on a prior student loan; or
2. Owe any prior financial obligations to the College or the federal government;
3. Have been convicted of a drug offense;

Dependency Status
The federal government provides specific questions to determine dependency status. If a student cannot answer “yes” to any of the questions, that student is considered dependent of their parents for financial aid purposes.
In Step Three on the FAFSA, the questions are summarized as follows:

- Age 24 or older
- Married
- Seeking a graduate degree
- Veteran
- Dependents-children or other
- If, since age 13, a student is:
  - A ward of the court /orphan/legal guardian
  - An emancipated minor
  - A homeless or at-risk homeless youth

If a student is not in any one of the above categories, then the student is considered dependent and must provide parental financial information.

Steps to “Finish What you Start”

Apply for Financial Aid:
- TIP: Students should also carefully complete the planned housing code (step 6). Students and parents need a Department of Education Personal Identification Number (PIN) to electronically sign the FAFSA. A PIN, may be obtained at www.pin.ed.gov. The PIN also allows a student to make changes and view the application status.

- After Application
  The , students will receive an email message from the federal processor confirming receipt of the application and including a Student Aid Report (SAR) usually within 48 hours. The financial aid office will receive the same information in the form of an Institutional Student Information Record (ISIR). The College uses the information on the ISIR to determine financial need and eligibility for grants, scholarships, loans, and work-study. Students should review the SAR for accuracy and make necessary corrections prior to any action the College would need to take.

Professional Judgment
Financial aid administrators are empowered to make professional judgment decisions for students under certain, extenuating circumstances including:

Dependency Overrides - Dependency overrides are done on a case by case basis when circumstances between the parents and the student are compromised. The override requires extensive documentation.

Income Adjustments - Income adjustments are done on a case by case basis when the financial
information requested on the FAFSA does not truly reflect the current financial situation in the household which includes changes in employment. The income adjustment requires extensive supporting documentation.

Further information and forms can be found at [www.broward.edu/sfs](http://www.broward.edu/sfs) under Forms.

**Verification**
The federal government randomly selects student financial aid applications for a process called verification. This process mandates that the College compare the financial information submitted on the FAFSA. To determine if additional documentation is required to complete the Federally mandated verification process, students should log on to MyBC and click on financial aid and application status. Red flags often indicate verification and that the office needs more information to complete the file. To avoid delays in financial aid awarding, students should respond to any requests as soon as possible.

Effective for the FAFSA year 2012-13 that opens for application in January 1, 2012, students or parents of eligible students should use the IRS system to populate their tax return information, if eligible. Eligible students or parents of eligible students, who do not use this system, will be notified by the Federal government to return to their FAFSA application and perform the IRS match. Students selected for verification to verify any income fields will be required to request an IRS transcript as proof to clear the verification flag. Copies of tax returns will no longer be acceptable for income verification performed for the next aid year 2012-13. For the 2011-12 aid year, if a student’s application is selected for verification, the tax returns and W-2s, will be accepted along with the verification worksheet and any other requested documents.

**Packaging and Awarding Aid**
Students cannot be awarded aid until verification documents are submitted, financial aid staff conducts the verification, the corrections are sent to the Federal government and the Federal government sends the College a clean Institutional Student Information Record (ISIR). Once the College receives a clean ISIR, then aid can be packaged, awarded and posted on students’ accounts. When aid is awarded, students can view their awards on MyBC.

**Continued Aid Eligibility Requirements**

**Satisfactory Academic Progress**
The College’s Academic Standards of Progress policy and Federal and state regulations require that students meet academic standards in order to stay enrolled at BC in good standing and also to remain eligible to receive financial aid funds. Standards are measured by grade point average cumulative and term, course completion rate each term related to attempted and earned credits, and the overall program completion pace, which must not exceed 150% of the published length of the program by College. Students (including veterans) must make academic progress in all course work in order to receive financial aid and veterans benefits. Students must maintain at least a 2.0 grade point average and complete at least 67% of the coursework attempted each term. Students should have their program completed within 150% of the published program length and should not take excess credit hours beyond the number of credit courses needed to complete the program: a 60 credit degree program within three years full-time and upper division students cannot have exceeded a 120 credit program within six years full-time. College prep coursework is excluded from standards of academic progress for financial aid, but is included in the students’ cumulative and overall College grade point averages.

The College will take the following progressive steps to help students understand that they are jeopardizing their ability to remain eligible for financial aid.

**Financial Aid Warning**

**Student Performance** falls in one or more of the following categories:

- Students’ qualitative measure, term or cumulative GPA falls below 2.0
- Students’ pace to completion each semester is less than 67% of their hours attempted and earned for credit.
**College Action:** Students placed on warning can receive aid for the subsequent term and will have one term to improve academic performance.

**Student Actions:** Within the first two weeks of the warning term, prior to disbursement/refund of excess funds, students on Financial Aid Warning must follow the steps indicated below:

- Meet with an academic advisor to create an academic plan
- Explain the reasons for lack of academic progress and determine what needs to change in order to make academic progress
- Discuss campus tutoring opportunities
- Ask about workshops on study skills, time management
- Set reasonable expectations related to balancing school and work

Consequences of Non-Action by the Student:

Loss of aid eligibility, which will result in a bill for current enrolled courses due to the loss of aid.

At the end of the warning period, students who:

- Show progress toward degree completion in one or more of the standards of academic progress measures will continue with their academic plan and receive aid without appeal and continue to make progress as outlined in that academic plan.
- Meet all the standards of academic progress, will be removed from warning and continue their aid eligibility as normal with no conditions.
- Make no progress in any of the standards of progress measures, and have no extenuating circumstances that impacted their ability to make forward progress, will lose their aid eligibility without an appeal option. (See below to determine how aid can be re-established).
- Make no progress and lose eligibility, but can provide non-biased documentation for an extenuating circumstance that occurred during the payment term, may appeal their non-eligibility status, obtain and file a petition to determine whether their aid can be reinstated.

Students may reestablish their eligibility to receive assistance under the title IV, HEA programs if their:

- Appeal is successful. Students who appeal successfully will be placed on Financial Aid Probation.

**BASIS FOR APPEAL PROCESS**

When a student’s lack of progress is due to extenuating circumstances beyond their control, the student may file an appeal for reinstatement of financial aid eligibility.

- Extenuating circumstances are generally those that were beyond the student’s control.
  - Extenuating circumstances include, but are not limited to the following:
    - Death of immediate family member(s)
    - Illness of self or immediate family member
    - Military call to duty
    - Work schedule

**PROCEDURE FOR APPEAL**

A complete petition package will include the following:

- An explanation of extenuating circumstances which prevented the student from making the required academic progress AND documentation to support all written comments.
- An explanation of actions taken to ensure that circumstances have been resolved AND documentation to support all written comments.
- A degree audit and unofficial transcript.

The Financial Aid Committee reviews the petition and can recommend one of the following actions:

- Financial aid probation
- Extend academic plan
- Terminate aid eligibility

Students who wish to grieve any decision made by the committee or Associate Vice President may appeal in writing to the Vice President for Student Affairs and Enrollment Management within 5 business days after the decision is rendered. The Vice President for Student Affairs and Enrollment Management will render a decision within 5
business days after receiving the request from the student. The decision of the Vice President for Student Affairs and Enrollment Management shall be final.

The College does not permit students to submit a petition who, after a term of warning, fails to make progress in any standards of academic progress measure and cannot provide documentation for an extenuating or mitigating circumstance. In these cases, students may re-establish their aid by completing 6 college-level credits with a C or better and then petition for reinstatement.

After the end of each evaluation period, students are notified by email of their SAP status. Students may also view their status by accessing their MyBC online account.

NOTE: It is the student’s responsibility to be aware of initial eligibility requirements for aid and minimum academic requirements, to ensure continued eligibility for aid. Adherence to these policy standards and Federal regulations is required by all students at Broward College. The College reserves the right to review and modify this policy annually.

For more comprehensive information on Standards of Academic Progress, please visit www.broward.edu/sfs

Remedial/Preparatory/Non-credit- Federal regulations allow financial aid to cover up to 30 remedial/preparatory credits (equivalent to one academic year) for any student. If a student is enrolled in classes and has already taken 30 credits of remediation, financial aid will not pay for additional remedial classes. This does not include ESL courses.

Financial aid does not cover non-credit courses.

Types of Financial Aid
The FAFSA is the one application needed for almost all grants, scholarships, work-study and loans. These funds are available through the federal government, the State of Florida, Broward College and the Broward College Foundation. If eligible, students can expect a combination of grants, scholarships, loans and/or work-study in their financial aid package. In order to “Finish What You Start” with minimal financial concern, students should apply as early as possible.

Grants
Grants are funded by federal or state programs and do not require repayment. Grants are awarded to students who demonstrate exceptional financial need.

- Pell Grant - the foundation of all financial aid programs. Students can apply throughout the academic year for a Pell grant by completing the FAFSA and any other required Broward College forms. Eligibility is determined by the federal government and is based on several factors including household size, income and number of family members in college.
- Federal Supplemental Educational Opportunity Grant - Additional grant assistance for exceptionally needy students who are Pell eligible and apply early.
- Florida Student Assistance Grant - State grant awarded to students with demonstrated financial need. If eligible, this grant may be renewed. Because funding is limited, students must complete the application process early.

Scholarships
Scholarships are generally funded by Broward College, the Broward College Foundation or generous private donors or organizations. Scholarships are awarded to students who demonstrate academic excellence, but many scholarships are also available for students who demonstrate financial need and have at least a 2.0 grade point average. Each scholarship has its own criteria and does not require repayment. An online scholarship application allows students to submit their information electronically. The system matches scholarship criteria with eligible students. Scholarships are based on the availability of funds and cannot be guaranteed. Most scholarships require students to complete a FAFSA.

Scholarships administered by the Student Financial Services Office are either awarded in the financial aid package or students may apply using the online Broward College Scholarship.
application. Students should have a completed financial aid file (FAFSA and all requested documents), and complete the online scholarship application. Available scholarships are advertised on the Broward College website in July of each academic year.

**Florida Bright Futures**
Florida Bright Futures scholarships reward Florida high school students with high academic achievement. Students apply for the Bright Futures Scholarship during the final year of high school. Effective with the academic year 2011-12, Bright Futures scholars must complete a FAFSA and all order prescribed requirements by the State of Florida.

If Bright Futures recipients are eligible for Federal student aid as a result of their FAFSA, students must also completed all the Federal student aid requirements, including verification if applicable, before any need-based aid is packaged and awarded. Students who receive Florida Bright Future must maintain eligibility for renewal and comply with the State of Florida renewal guidelines [http://www.floridastudentfinancialaid.org/ssfad/bf/renewrequiredhrs.htm](http://www.floridastudentfinancialaid.org/ssfad/bf/renewrequiredhrs.htm), as well as comply with the College’s Academic Standards of Progress policy.

**Federal Student Loans**
Federal student loans are also part of a student’s financial aid package. All subsidized and unsubsidized student loans are funded directly from the federal government through the William D. Ford Direct Loan program. Loans must be repaid with interest in a specific time period after a period of non-enrollment. Repayment is deferred while students are attending classes at least half-time. Students whose enrollment changes to less than a half-time status, may jeopardize their eligibility to continue to receive student loans. Students who want to utilize loans to attend school must have a completed financial aid file.

**Application Process**
Students must log onto [www.studentloans.gov](http://www.studentloans.gov) to complete Entrance Counseling and a Master Promissory Note (MPN) to complete the student loan application process.

Students who are first-time borrowers, have not made required academic progress or have borrowed excessively must attend a Debt Management Workshop on any campus. Times and locations are available online or at the Student Financial Services Office.

**Loan Disbursement Timeline**
Loan funds cannot be disbursed unless the Master Promissory Note (MPN) is completed. For first-time borrowers, loan funds cannot be disbursed until 30 days after the first day of classes.

**Types of Loans**
Federal student loans are need and non-need based.

**Direct Subsidized Loans** are based on financial need. The federal government pays the interest on the loans while students are in school at least half-time, during grace periods, and during authorized periods of deferment.

**Direct Unsubsidized Loans** are not need-based. Students are responsible for the interest that accrues from the date of the first disbursement forward. Interest can be paid while students are in school or it can be postponed until repayment. Postponing interest means the interest will be capitalized or added to the principal amount, increasing the balance on which interest accrues daily.

**Direct Parent PLUS** loans are also available to parents of dependent students. Parents may be eligible to borrow up to the total cost of attendance less all financial aid received. Parents are eligible for the PLUS loan if they meet the minimum government credit requirements. Parents begin repayment 30 days after the final disbursement for the academic year. The PLUS loan is based on a ten-year repayment plan with no prepayment penalties.

**Work-Study Programs**
Work-study programs allow students to work either on or off campus to help defray their educational expenses. Students can work up to 20 hours per week depending on eligibility. Students can contact the campus financial aid office to determine if they are eligible and if so, can research job openings on the web at: [http://www.broward.edu/workstudyjobs](http://www.broward.edu/workstudyjobs)
The Federal Work-Study Program provides students an opportunity to work and earn up to $9.00 an hour for 20 hours per week. Funds are limited and awards are made to eligible students who complete their financial aid file early. Students must also complete an employment packet prior to beginning employment. Students who elect to work in a Federal Work-study position on campus can exclude the income earned through work-study from the adjusted gross income (AGI). This can benefit students who are trying to manage their aid eligibility. Students should weigh the difference between part-time off campus jobs with on-campus FWS positions.

America Reads /Counts
This program is funded through the Federal Work-study Program described above. It offers students an opportunity to tutor reading and math in local elementary and middle schools. Students may work a minimum of 20 hours per week and are paid $10.00 per hour. Security clearance is necessary.

Florida Work Experience Program provides eligible students who are Florida residents an opportunity to work in the public school system as teacher aides or tutors earning $10.00 an hour. Students may also work on campus earning up to $9.00 per hour. Funds are limited.

STUDENT FINANCIAL AID REFUNDS

Enrollment Verification
Before aid can be disbursed to the College to cover tuition and any excess refunded to students, attendance in all enrolled classes must be verified by the faculty. Students should attend all classes, especially the first day of class, as faculty disseminate valuable class information every day the class meets. If a student does not attend class, per the faculty requirements to meet the outcomes of the course, within two weeks after the drop/add period in each session, the student will be withdrawn from classes and will receive a (WN) non-attendance. Further information can be found on the web at www.broward.edu/sfs under Withdrawal Policies.

On-going attendance monitoring—Once attendance is initially verified, the faculty monitor students’ attendance throughout the term. Any changes in the enrollment status will cause a change in the aid awarded to students. Any type of withdrawal up to the 60% point of the term WILL impact students’ financial aid.

Advisement TIP: Students should plan to attend ALL classes, including the first day. And, equally important, students should register only for the courses which can be successfully completed. It is the student’s responsibility to notify the financial aid office about withdrawing from any class at any point during the term. Withdrawing from courses can negatively affect a student’s satisfactory academic progress status. Students who withdraw from classes may be required to repay some of the funds they receive from the federal government.

Returning Unearned Student Federal Aid Funds

Return of Title IV Funds Policy
The federal government requires colleges and universities to establish a Return of Title IV policy to outlines when students must repay federal funds when their aid eligibility changes. When students officially withdraw or have been unofficially withdrawn by a faculty member in any and all classes due to attendance failure or dropout status, during a term or session for which they are receiving Title IV student financial aid, a portion, if not all, aid may be returned. Aid funds impacted are as follows: the Pell Grant, Supplemental Educational Opportunity Grant, Subsidized and Unsubsidized Loans and PLUS Loans.

The federal government provides a formula to determine if the student will need to repay dollars received after courses are withdrawn. If a student has received more aid than they are entitled to receive, federal law requires that the College must return the aid overpayment and the student must repay the College or make satisfactory repayment arrangements within 45 days of notification or lose eligibility for future federal aid. The complete policy on Return of Title IV aid is accessible online on the Broward College financial aid website.
Veterans

Students who have served in the U.S. armed forces may be eligible to receive veterans' educational benefits to assist with educational expenses as well Title IV aid funds.

Veterans benefits may also extend to a spouse and child dependents of disabled veterans. Veterans services staff at Broward College act as liaisons between the students and the Veterans Administration by offering the following:

- Submission of completed forms to the Veterans Administration
- Certification of attendance
- Current news and information

The College has veterans support services on each campus to further assist veterans with their transition to college. Broward College is an approved site for veterans training which includes pursuing all degrees as well as some certificate programs. Veterans are encouraged to apply for experiential learning credit for training received in the Armed Forces in order to accelerate their educational goals and “Finish What You Start”. Broward College Admissions Office will grant credit for evaluated military education that has been recommended as suitable for postsecondary credit by the American Council on Education’s Guide. Veterans requesting experiential learning credit for military training must request a transcript:


ARTS- https://aartstranscript.army.mil

For more detailed information, see the accelerated learning section of this catalog.

Post 9/11, Chapter 33 Benefits pay tuition at the in-state rate. Veterans are responsible for the out-of-state fees, and are encouraged to apply for other types of financial aid to cover the additional cost.

Veterans receiving Post 9/11 benefits and taking only distance education courses receive tuition and fees benefits, but are not eligible for the basic housing allowance (BAH).

The Broward College Veterans Coordinator is required to certify the veteran’s eligibility which includes attendance as well as academic progress. More detailed information on attendance requirements and other necessary paperwork may be found on the Broward College website.

Veterans Billing Policy

Veterans receiving benefits must complete all coursework each term to avoid being billed for withdrawing or being dropped from classes. If a veteran student does not attend class after the drop and add period in each session, the student will be withdrawn from classes or receive a failing grade for non-attendance. Withdrawing from or dropping courses could result in termination of benefits and/or owing money to the VA and Broward College. It is the veteran’s responsibility to notify the Veteran Coordinator before withdrawing from any class at any point during the term. Veterans should register only for the courses which can be successfully completed.

Further, Veterans who receive Title IV financial aid must adhere to the withdrawal policies and the Federal Return of Title IV Funds policy.
Special Academic Programs

- The Robert “Bob” Elmore Honors Institute
- Internship Education
- International Education Programs
- International Affiliate Programs
- Army Reserve Officers Training Corps (ROTC)
Special Academic Programs

The Robert “Bob” Elmore Honors Institute
One of the most highly rated two-year Honors Programs in the country; the Robert “Bob” Elmore Honors Institute at Broward College serves approximately 850 students annually.

Honors Institute Advantages
Honors sections of required General Education courses are taught in a dynamic seminar style by Honors Faculty. Classes are capped at twenty students to create an enriched and specialized learning experience. Honors Institute members receive special recognition and benefits, including but not limited to, priority registration privileges.

The Honors Institute Mission Statement
The mission of the Robert “Bob” Elmore Honors Institute of Broward College is to provide an enriched program in a vibrant, active community of students, faculty and staff which:

- stimulates independent and creative thought;
- challenges the intellect;
- enhances career and professional development;
- builds self-confidence and empowerment;
- provides opportunity for cultural enrichment; and
- promotes a global perspective.

Eligibility for the Honors Institute
Students who have completed 12 college-level credit hours and have earned a minimum of a 3.5 overall GPA are eligible to join the Honors Institute. In addition, up to 100 students are recruited annually from Broward County High Schools who earn an unweighted GPA of 3.25 or greater and have appropriate Honors Institute placement scores on the PERT, SAT, or ACT. These students are invited to join the Honors Institute and could be eligible to receive a scholar award. Students who

- complete Home Schooling Certificates and have SAT scores of 1000 or higher;
- place in the top 1-2% of GED scores are also eligible.

Eligibility information, campus contact information and the Honors Institute Application are available on the BC website, Honors Institute home page, online at www.broward.edu/honors

Honors Institute Scholarships

The Honors Institute offers Term scholarships to qualifying part-time and fulltime Honors students to cover the cost of books each major term. The Honors Institute also offers Scholars Award scholarships annually to high school graduates who meet eligibility criteria or who demonstrate advanced capability. Through BC’s International Education program, eligible Honors students can apply for a subsidy for International Study Abroad Programs. Honors students may also receive scholarships for holding leadership roles in Phi Theta Kappa or for their participation on the Brain Bowl and Math Teams. All graduates of the Honors Institute are eligible for transfer scholarships at public and private universities. Scholarships are also awarded to officers in Phi Theta Kappa, BC Brain Bowl and Math Team members. NOTE: For those who apply and are eligible to receive it, Federal and State financial aid are awarded first and any scholarship aid is awarded if there is still unmet need.

The Honors Certificate
The Honors Certificate is awarded upon graduation to students who achieve at least a 3.5 overall cumulative GPA in college-level credit coursework, and to those who earn at least fifteen hours in Honors classes completed at Broward College, including three credits for the Honors Interdisciplinary Seminar, IDH 2121. Additionally, Associate in Science, Associate in Applied Science, Bachelor in Science, and Bachelor in Applied Science students who earn fifteen credits in Honors classes and graduate with a 3.5 overall GPA in college-level credit coursework will receive Honors certificates. The Honors Institute Gold Seal is affixed to the diplomas of qualifying graduates and Honors cords are awarded for graduation regalia.

Annual Honors Institute Awards Celebration and University Transfer Scholarships
Each year in April, the Honors Institute hosts a college-wide Honors Colloquium, which ends with an Awards Celebration. Departmental and Deans’ Honors Awards are presented from each campus. The highlight of the event is the official recognition of more than 150 university transfer scholarships awarded annually to Honors Institute Graduates for all ten of Florida’s State Universities and many private universities such as Nova Southeastern, Barry University, and the University of Miami. Qualified graduates of the Honors Institute have also been awarded scholarships to the most
prestigious colleges and universities in the nation such as Harvard, Tulane, Cal-Berkley, Smith, Georgetown, MIT, University of Chicago, University of Texas/Austin and many more.

Honors Student Committees, Social and Cultural Events
Honors students are encouraged to join the Honors Student Committee on their campus for special social events and volunteer activities in the community. In addition, Honors Institute students are encouraged to participate in the many cultural events presented by Broward College.

The Brain Bowl
Students in the Honors Institute have the opportunity to compete for a place on the Broward College Brain Bowl Team. Regional and State winners of the annual Florida Community College Brain Bowl Tournaments may receive cash prizes and earn scholarships to upper division universities. BC's highly successful Brain Bowl team, whose members all receive scholarships, competes in five tournaments a year throughout the state and the South. BC is the only College to have a Brain Bowl team win five consecutive state championships and the only College to have two teams simultaneously win first and second place.

Phi Theta Kappa
The National Scholastic Honor Society, Phi Theta Kappa, has a chapter on each campus of Broward College. Students earning at least a 3.5 overall cumulative GPA, after completing 12 college-level credit hours, are eligible for membership. Students do not have to be part of the Honors Institute to become members of PTK. And, not all PTK members are part of the Honors Institute. PTK provides opportunities for scholarship, leadership, service, and fellowship with other students of high academic standing around the nation. Membership in Phi Theta Kappa also brings opportunities to enter state and national scholarships and competitions as well as opportunities to attend regional, state and national conferences and seminars. Students who continue beyond their two-year degree have opportunities to become members of four-year honor societies as well.

Internship Education
(Formerly known as Cooperative Education)
An internship is an academic program that combines on-campus study with directly-related work experience.

The College defines an internship as:
- Any short-term, supervised work experience specifically related to a student's declared major, for which the student earns academic credit.
- The work can be full- or part-time, on- or off-campus, paid or unpaid. In order to comply with the Fair Labor Standards Act of 1938, it is required that all employers that are for-profit pay their interns at least minimum wage, unless the intern is receiving academic credit (unpaid internships offered by for-profit organizations must result in academic credit for the student). Paid internships are highly encouraged.
- The internship should provide students with a meaningful experience directly related to their course of study. The Faculty Internship Instructor ultimately approves the suitability of the internship for course credit.

Eligible Students
To qualify for an internship, the student must have a declared major and be in good academic standing. It is strongly recommended that the student have completed at least 24 credits (unless waived by the appropriate Associate Dean).

Student Responsibilities
- Meet with the appropriate Faculty Internship Instructor
- Prepare a professional resume
- Acquire an internship (paid or unpaid) in a field directly related to their declared academic major
- Register and pay for the internship class
- Obtain supervisor’s signature on Student Internship Application. Obtain supervisor’s and faculty instructor’s signature on the Learning Objectives. Provide one completed copy of each document to the instructor and another to the respective Job Developer.
- Provide supervisor with instructor’s contact information and Employer Internship Packet
- Notify the instructor and respective Job Developer of any change in the internship
• Complete all required assignments/reports/projects and paperwork
• Fulfill the required number of working hours (144 hours for 3 credits)
• Perform all work duties as assigned
• Learn as a result of the work experience

Benefits of an Internship
• Earn academic credit
• Gain practical experience and job knowledge
• Test your career decisions
• Make valuable contacts in your professional field

For more information about internships, log on to www.broward.edu or contact the Associate Vice President for Academic Affairs at:
225 E. Las Olas Blvd
Ft. Lauderdale, FL 33301
954 201 7279

International Education Programs

Study Abroad Program
Broward College provides students with opportunities to enroll in several different overseas academic programs. BC has conducted study programs in foreign locations since 1974, and students participating in these programs earn transferable college credit. BC offers several overseas academic programs for students of all ages. Both short-term (summer) and long-term (semester) programs are offered. More information about any of the BC Foreign Study programs may be obtained by contacting the International Education Study Abroad Office at 954-201-7709.

A. College Consortium for International Studies
Broward College is an active member of the College Consortium for International Studies (CCIS) www.ccisabroad.org, an international organization founded for the purpose of providing high quality international programs abroad, at reasonable costs. As a result of membership in CCIS, Broward College offers summer and semester-length academic programs in many countries including England, France, Germany, Ireland, Italy, and Israel. Students may earn Broward College credits when they enroll in these programs. BC sponsors three programs through CCIS: Seville, Spain, Heidelberg Germany and Lima and Cusco, Peru.

Summer and Semester Length Programs
The Broward College Center in Spain was established in 1979 to provide students with an opportunity to study for a semester or summer in Spain at reasonable cost. Students live and attend classes in the beautiful city of Seville and earn 15-18 semester hours of credit each semester or 6-7 semester hours in the summer term by participating in the program. Students may enroll at the International College of Seville or the University of Seville, Spain. Unlike other programs in Spain, the Broward program does not require proficiency in Spanish; students may participate in English or Spanish instruction depending on their level of language proficiency. Students participating in the Spain Program may choose to live with Spanish families or in private residencies.

Similarly, the College offers study abroad programs in liberal arts in Heidelberg, Germany through Schiller International University or intensive German language study at the International House Heidelberg.

Semester and summer opportunities also are available in Lima and Cusco, Peru through the College’s affiliation with the Universidad San Ignacio de Loyola, which has campuses in both cities.

For more information about this program contact the Greene International Education Institute at 954-201-7709.

B. Faculty-led Summer Study-Abroad Program
Broward College also conducts several short-term overseas academic programs in foreign locations during the summer terms. These courses combine
foreign travel experience with academic instruction. Participants typically earn three to six semester hours of credit in a variety of subjects. These courses are fully accredited and may be applied toward a degree at Broward College or used for other purposes such as certificate renewal and/or incentive awards for public school teachers. Several different programs are offered each summer, with opportunities to study in many countries around the world. For a current list of available programs contact the Greene International Education Institute at 954-201-7709 or online at www.broward.edu.

International Affiliate Programs

Broward College has established formal linkages with several institutions of higher education around the world. Since 1981, BC has maintained, at various times, academic affiliations with a number of educational institutions located in Europe, Asia and South America. Broward College’s regional accreditation does not transfer to these international affiliates or their students.

International affiliates utilize the BC curriculum and offer courses and programs similar to those offered at BC. Broward College provides technical assistance to facilitate the parallelism and quality of the academic programs offered at all international affiliates.

Current BC International Affiliates include:

- Pan American University of Cuenca, Cuenca, Ecuador
- Caribbean-American Institute of Higher Learning (CAIHL), Montego Bay, Jamaica
- Hyria Education, Ltd., Hyvinkaa, Finland
- Center for American Education (CAEG), Guatemala City, Guatemala Universidad Autonoma del Caribe (UAC) Barranquilla, Colombia
- National Management School (NMS), Chennai, India

SACS Approved International Centers

Broward College also conducts programs approved by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) where students enroll and register in college credit courses as Broward College students at five locations:

- Center for American Education (CAE) Singapore
- Center for American Education at Broward College of Ecuador (BCE), Guayaquil and Quito, Ecuador
- American College of Higher Education (ACHE), Colombo, Sri Lanka
- Universidad San Ignacio de Loyola (USIL), Lima, Peru
- Vietnamese-American Technical College (VATC), Ho Chi Minh City, Vietnam

Army ROTC Program

Broward College offers ROTC courses that satisfy the first two years of the four-year Army Reserve Officers Training Corps program or the Air Force Reserve Officers Training Corps program. The Army ROTC courses are offered in conjunction with Florida International University and are taught at the FIU campus in Miami. The Air Force ROTC courses are also offered in conjunction with the University of Miami and are taught at the UM campus in Coral Gables.

ROTC is a four-year program that helps students learn leadership skills while in college. Eligible students who earn their bachelor’s degree and complete the ROTC program will be commissioned as an officer in the United States Military. The ROTC program offers scholarships and other monetary benefits to participants. Students interested in the Army ROTC program should contact the Military Science Department at Florida International University at 305-348-1619. Students interested in the Air Force ROTC program should contact the Military Science Department at the University of Miami at 305-284-2870. Under no circumstances should a student register in ROTC courses without first contacting one of the above programs.
Continuing Education/Workforce Development

The Institute for Economic Development

Continuing Education

Center for Business and Industry

Health Science Continuing Education and Workforce Development

RENEW
Refugees Entering New Enterprises and Workforce

WINGS
Women Investigating New Goals and Services
THE INSTITUTE FOR ECONOMIC DEVELOPMENT

The Institute for Economic Development
The Institute for Economic Development is a vital part of the total program at Broward College. The Institute emphasizes the community by extending the College into the community through noncredit offerings and programs reaching beyond the traditional limits of the College. The Institute for Economic Development houses the following departments.

- Continuing Education Department
- Center for Business and Industry
- Health Science Continuing Education and Workforce Development
- RENEW
- WINGS

Continuing Education

ec.broward.edu  (954) 201-7800

The Continuing Education Department offers non-credit courses that provide continuing professional education (CPE) for individuals wishing to upgrade their present skills, explore new occupational fields, personal education, intellectual enrichment and/or specialty programs.

Continuing Education courses vary in structure and length. Non-credit courses are offered at all BC campuses (North, Central, South), Tigertail Lake Center, Miramar Center, Miramar Town Center, Willis Holcombe Downtown Center, Weston Center and other community locations.

Continuing Workforce Education

Aviation
Business and Careers
Child Care Certification
Computer Training
Institute for Renewable Resources in Building Construction
Industry Certifications
Insurance
Real Estate/Condominium

Community Education

Creative Arts
Fitness, Sports, Watersports
Hot Topics
Kids and Teens

Languages
- English Language Center (classroom)
- Foreign Language Center (classroom)
- Sign Language

Test Preparation
- Online courses

Specialty Continuing Education Programs

Accounting: Continuing Professional Education (CPE) Seminars for CPAs.

Insurance Program: provides courses for people interested in sitting for General Insurance Agents, Adjustors, and Life, Health and Annuity State Licensing Examinations. Continuing education courses for licensed insurance agents and National Professional Insurance Courses are also offered.

Real Estate Program: provides continuing education credits for real estate salespersons, brokers, and community association managers to enable them to maintain their active license status.

Kids and Teens Summer College: Children eight to fifteen years of age are introduced to Broward College’s innovative and enriching programs. Kids and Teens develop a special bond with fellow students while becoming familiar with the BC campus environment. Courses are offered in Automotive, Cosmetology, Decorating, Fashion Design, Finance, Leadership, Event Planning, Photography, Technology, Water sports, SAT and FCAT Test Prep, half day KTSC – Certificate programs and more.

Information Technology: The Institute meets the computer training needs of the Broward County business community including labor, industry, and government. Our non-credit courses are presented in state-of-the-art laboratories on BC or online. Programs are offered in a number of certifications. Programs are continually added with the advancement of technology and for the growing need of the workforce.

The Institute has three methods for providing workshops in a range of popular microcomputer programs.
The Center for Business and Industry (CBI) at Broward College's Institute for Economic Development works to support the economic well-being of Broward County's workforce. CBI provides design, development, delivery and evaluation of training programs as well as professional consultation to address workplace problems. Established in 1990, CBI has structured diverse, competency-based programs for industries and organizations focused on enhancing the skill and information base of employees. Programs are delivered by qualified trainers, business practitioners, and experienced educators to guarantee timeliness and quality.

CBI's programs are offered at all campuses and centers. Options include:

- Customized training at business and industry sites
- “Work Keys” Skills Assessment
- Adventure Training Teambuilding

Customized on-site training means an end to generic, expensive and time-consuming seminars and extensive travel. Customized programs are designed to meet specific needs of a company without requiring travel from the comfort and convenience of the firm's location. Practitioners and consultants with successful business and industry backgrounds help define training needs. Technical skills, management skills and team-building programs are tailored to the culture of the business and the learning styles of employees. Customized training offers a choice of formats best suited to employees and employers. Short or long-term programming, lasting from a few hours to several months, is available.
**Health Science Continuing Education/Workforce Development**

The Health Science Continuing Education/Workforce Development program provides educational opportunities for health professionals who desire to increase their knowledge and skills based on a continuum. The program supports and assists in implementing the mission of the College through continuing education offerings for health care providers. Target groups include medical assistants, dental assistants and hygienists, dietitians, registered and licensed practical nurses, certified nursing assistants clinical laboratory personnel, nursing home administrators, radiographers, physical therapists and assistants, respiratory therapists, and psychological services licensees and massage therapists.

Health Science Continuing Education is an approved provider by the CE Broker (50-266), a Division of Information Systems of Florida, Florida Department of Health Rule 64B-5.003, F.A.C. DH-MQA-CEB-8, May, 2006: (Florida Board of Clinical Laboratory Personnel – recognized by National Certifying for Clinical Lab Personnel-DPR #JP3, Exp. 08/2012; Florida Board of Clinical Social Work, Marriage and Family Therapy and Mental Health Counseling-BAP#73, Exp. 03/2013; Florida Council of Dietetics and Nutrition; Florida Board of Dentistry-Provider #P00020; Florida Board of Massage Therapy DPR Provider-MCE-129, Exp. 08/2011; Florida Board of Nursing-FBN2163, Exp. 10/2012; Florida Board of Nursing-Certified Nursing Assistants; the Florida Board of Physical Therapy Practice; and the Florida Board of Respiratory Care). Department of Health Radiation Control FL DOH – BRC Provider #3200006. The American Association of Medical Assistants**; Nursing Home Administrators (Complementary)**

**Must contact the individual Professional Board for rules and guidelines.**

Interprofessional collaboration in programming fosters interaction among health care practitioners in order to provide improved quality health care. We support the concept of learning as a continuous process of formal and informal educational learning experiences. Continuing education and workforce development is supplemental to formal education and, therefore, most appropriate as short-term, non-credit offerings.

Offerings are available at all campus sites and various off campus facilities. Day, evening, and weekend classes provide opportunities for continuing education. The format for classes includes seminars, workshops, short and long-term courses and special educational programs. College credit courses, as well as on-line are also available. Contracted instructional services meet the needs of individual institutions, agencies, or groups.

Non-credit and credit courses are in the publication, Continuing Education and Workforce Development, Health Sciences, which is linked online and published three times a year. Additional flyers announce individual offerings periodically. For information regarding these programs contact Continuing Education/Workforce Development, Health Science at (954) 201-6768.
**RENEW**
Refugees Entering New Enterprises and Workforce (RENEW) is a comprehensive ESOL (English for Speakers of Other Languages) and job training program for refugees and political asylees. RENEW operates as a component of the Institute for Economic Development at BC and is funded by the US Department of Health and Human Services, Office of Refugee Services, and administered by the Florida Department of Children and Families. All services are free for eligible clients.

**Eligibility Requirements**
Clients with the following statuses are eligible for RENEW:

- Refugee Status
- Political Asylum
- Cuban/Haitian Entrant Status
- Cuban/Haitian Political Asylum Applicants
- Amerasian Status
- Certified Victims of Trafficking
- Lawful Permanent Residents Adjusted from Prior Political Asylum or Refugee Status

NOTE: Clients are eligible for services if they are within five years (60 months) of their date of entry or the date they received their status. Clients must also be employed and be a resident of Broward county to be eligible for services.

**Services**

**English for Speakers of Other Languages (ESOL)**
Language should never be a barrier to success. Through an interactive approach, RENEW allows students to overcome that barrier.

**Career Counseling**
Career counseling at RENEW goes beyond providing advice. The counselors take a personal interest in helping students create and pursue viable career paths based on their values, interests and desires by:

- Building attainable individual employment plans
- Setting career goals and empowering students to reach them
- Identifying training programs to launch careers
- Guiding students returning to their previous fields of employment
- Developing successful job-seeking and workplace readiness skills
- Referring clients to legal and employment service providers

For more information, contact the RENEW Department at (954) 201-8709 or send an Email to renew@broward.edu. The office is located at the Miramar Town Center, 2050 Civic Center Place, Miramar, FL 33025.

RENEW staff members speak English, Spanish, French and Haitian-Creole

**WINGS (Women Investigating New Goals and Services)**
WINGS is a comprehensive re-entry program offering assistance to women 35 years or older, are in transition due to the separation, divorce, death, or disability of a spouse.

Due to their circumstances, they need to enter the job market, or return to school for training to re-establish them as responsible, independent, self-supporting citizens. They have many barriers to employment due to their lack of recent work experience, lack of education, lack of updated skills, and low self-esteem. Our program helps to promote returning to school to update skills and continue their educational pursuits. We assist these women with scholarship to relieve their financial burden. Our program provides career counseling and assessment, job search skills, interviewing and resume writing. Scholarships are awarded each term to students taking at least 6 credits and showing financial need.

For more information call (954)201-2398 or visit the website at www.wings.broward.edu
General Academic Information

- Academic Honors
- Academic Load
- Transcript Evaluation
- Academic Standards of Progress
- Cancellation of Previous Academic Record
- Class Attendance Policy
- Final Grades and Records
- Grade Appeal Process
- Applicable Catalog
- Recency of Credit
- Graduation Honors
- Semester Credit Hour
- Semester System
- Grade Forgiveness Policy
- Maximum Attempts Per Course
- Course Pre-requisites and Co-requisites
- Excess Credit Hours
- Student Ombudsman
- Academic Standards Committee
- Academic Honesty
General Academic Information

Academic Honors
The College recognizes exceptional scholastic achievement at the end of each regular term and posts them to transcripts and grade reports.

The President's List includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 4.0.

The Dean's List includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 3.50 to 3.99.

The Honor Roll includes the names of students carrying 12 or more college credit semester hours who have a grade point average of 3.25 to 3.49.

Academic Load
To be considered full-time, students must carry a minimum load of 12 semester hours per academic term or an equivalent number of clock hours for an educational program using clock hours per the United States Code of Federal Regulations.

The maximum load that may normally be carried is 18 credit hours per academic term or an equivalent number of clock hours. However, students who earn a grade point average of 3.2 or above may carry an extra course, but in no event shall the maximum load exceed 21 credit hours per academic term or an equivalent number of clock hours. The maximum load for a six-week summer session is nine credit hours or an equivalent number of clock hours. The normal load for a six-week summer session is six credit hours or an equivalent number of clock hours, except through a request for an exception by petitioning the Academic Standards Committee. The Academic Standards Committee makes recommendations to the Vice President for Student Affairs and Enrollment Management who shall make the final determination. Petitions must be received by the College Registrar, at least 5 business days prior to an Academic Standards Committee meeting.

If the student must have the hours in order to graduate, a student in the last term of residence prior to graduation may carry an overload even though his/her grade point is not high enough under the above policy. In no event should the student enroll for more than 21 credit hours, except with approval from the Academic Standards Committee review process.

Lower Division: A student who has earned 25 or more semester hours credit is classified as a sophomore. Lower Division coursework is denoted as 1000 and 2000 level.

Upper Division: A student who has earned 61 or more semester hours credit is classified as a Junior. A student who has earned 91 or more semester hours credit is classified as a senior. Upper Division coursework is denoted as 3000 and 4000 level.

Transcript Evaluation
Transfer students must provide official transcripts from all previously attended colleges or universities. Transcripts should be sent to Broward College, College Registrar's Office, 225 East Las Olas Blvd., Fort Lauderdale, Florida, 33301, prior to the students’ term of enrollment. Students who have completed post-secondary work outside of the United States are required to provide a commercial evaluation of all course work completed. An official evaluation of credit courses’ transferability is made after the student is admitted to the College. All official transcripts from previously attended institutions must be received before an official evaluation is considered complete. Transfer credits may be accepted from regionally accredited colleges or universities and/or from institutions belonging to the Florida State Common Course Numbering System or from out-of-country universities when commercial evaluations of those transcripts are provided. In some instances, transferability of credits is done on a course-by-course analysis.

Upper Division coursework is evaluated for students pursuing Baccalaureate degrees. BC honors 2+2 with Florida Public Colleges and Universities for earned Associate in Arts degrees. According to the College’s transfer credit policy 5.34, previously earned credits may transfer in, but may not be accepted for a specific degree program. Grades earned from other colleges are not computed in the cumulative grade point average at BC.

Broward College shall honor suspension and dismissal sanctions imposed by institutions from which students transfer. Consequently, students seeking admission to the college should meet with an academic advisor to submit an Academic Standards Petition. Transfer students who have
already completed an A.A. or baccalaureate degree at another college or university, cannot enroll in an A.A. degree program at BC.

**Academic Standards of Progress**

Broward College strives to provide the highest quality of instructional and support services. Students accepted into certificate and degree programs will be continually evaluated to ensure that standards of progress are achieved and to identify and provide assistance to students who experience academic difficulties. BC is committed to providing assistance for all students in order to provide an optimal learning experience so that students will be able to succeed in achieving their educational goals.

College regulations regarding academic standards of progress apply to all degree and certificate students and it aligns to eligibility requirements for continued Federal financial aid (see policy on Student Financial Services Programs 6Hx2-5.11). In determining academic progress, college credit, vocational credit and college preparatory credit are combined in the term and cumulative grade point averages. "Earned Credit" is defined as all courses in which the student receives a grade. Courses taken for audit, courses for which a student receives a refund, and courses in which a student has withdrawn during the withdrawal period will not be included in the determination of academic standing.

**Academic Warning**

Any student who does not achieve a degree GPA or cumulative GPA of 2.0 or higher in a term will be placed on academic warning. Students on academic warning will be notified and should see an academic advisor or counselor prior to registering for the next term. A student will be removed from academic warning when he/she earns two successive terms of enrollment. A student will be removed from academic probation, a student must earn a term GPA of 2.0 GPA or higher for two successive terms of enrollment.

**Academic Suspension**

A student on academic probation who fails to achieve a term GPA of 2.0 or higher for two successive terms will be placed on academic suspension, which is the next level of academic intervention. To be removed from academic probation, a student must earn a term GPA of 2.0 GPA or higher for two successive terms of enrollment.

**Cancellation of Previous Unsatisfactory Record**

Students in Associate in Science, Associate in Applied Science, Certificate or Diploma Programs who have previous unsatisfactory academic records may petition for cancellation of their previous academic record per F.S. 1001.64. If, at the end of 24 credit hours, an Associate in Science and Associate in Applied Science Degree students have achieved a grade point average of 2.0 or above, they may be granted full admission and the previous unsatisfactory academic record cancelled, except in the case of students who were enrolled during or after Term 1, 1997-1998. Students enrolled in Certificate and Diploma programs must complete one third of the total program hours with a grade point average of 2.0 or above. Under normal circumstances, such a cancellation would not be approved unless the student’s unsatisfactory performance was at least two (2) years old.

Canceled academic records will be completely disregarded in the calculation of credit hours and grade point average. However, permanent academic records will show all coursework attempted and all grades earned along with a notation about the cancellation granted by the College.
Under the articulation agreement binding the Florida public community colleges and state universities, this policy may not be applied to Associate in Arts degree students.

Class Attendance Policy
It is the student's responsibility to attend classes to ensure that he/she is properly enrolled. Requirements for class attendance are determined by the instructor and will be outlined in the course syllabus. By staying in the class, students are agreeing to abide by that attendance policy.

If a student does not attend class within two weeks after the drop/add period in each session he/she will be reported as never attended and a WN enrollment status will be recorded for non-attendance. No refund will be granted.

Students will notify instructors in advance of absences(s) to observe a religious holy day(s) in his/her own faith, and shall likewise notify instructors in advance of other absences when practicable under the circumstances. According to College policy 6Hx2-4.18 and F.S. 1001.64, there shall be no penalty for a student who is absent because of religious holy days, the student's serious illness, a death in the immediate family, or statutory government responsibilities. If a non-penalized absence occurs on the first day of class, the student shall notify the instructor of the reason for his/her absence at the next class meeting. The student shall present documentation for non-penalized absences should the faculty member request it. Students will be responsible for material covered during an absence. Excessive absences may result in withdrawal from the course by the professor and a F failing grade recorded for the course.

Campus/Center Closing
Owing to unanticipated circumstances that are beyond anyone's control, or when concerns are raised about the safety and/or security of the students, faculty, staff, and/or facilities, a campus or the College may be closed. For purposes of grading and attendance policies, the day(s) during which the campus/College is closed shall be considered a non-class day(s). When this occurs, each Faculty member shall determine how best to make up the lost class time.

Final Grades and Records
Final grades for each term are retained permanently. Grade point averages for graduation and honors are calculated only on college and vocational level academic work and include work attempted at all colleges. The following grades are used to calculate the grade point average (GPA):

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<th>Grade</th>
<th>Points</th>
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The following grades do not affect the GPA:

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<th>Grade</th>
<th>Points</th>
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<td>I</td>
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Incomplete Grade “I”
An incomplete “I” grade may be given in courses for a student who has a reasonable chance of successfully completing the course. The student who has not completed the required course work by the end of the term may be required to provide documentation for extenuating circumstances. The student should make arrangements to complete the work prior to the end of the next major academic term. Summer terms are not considered in this time limit. If no change is initiated during the next major term, the “I” will automatically become an “F” on the student's permanent record. If the coursework is completed the grade and recalculated GPA will be placed on the student’s transcript.

Official Withdrawal “W”
Florida State Board of Education requires state colleges to adhere to the following procedures relating to the award of a “W” as a result of a student's withdrawal from a course.

- The student may withdraw without academic penalty from any course by the mid-point of the semester. A (W) will be recorded on the student’s permanent record.
- The student will be permitted a maximum of two withdrawals per course.
- Upon the third attempt, the student will not be permitted to withdraw and will receive an A, B, C, D, or F grade for that course.

Advisement TIP: Withdrawals from classes affect the timeframe to complete the program and will impact a student’s continued eligibility for Federal Student Aid.

Withdrawal for Non-Attendance “WN”
A student who does not attend class within two weeks after the drop/add period in each session will be withdrawn from classes for non-attendance. No refund will be given.

Audit-X and XW
A student should indicate the desire to audit a course when registering for the class and cannot change from audit to credit after the drop/add period. Up to the end of the withdrawal period, a student may change from credit to audit at the discretion of the Faculty member. A student who audits a course must adhere to attendance requirements. No grade will be assigned and no credit will be awarded. An audit will count as an attempt whether or not such enrollment status is declared after the drop/add period.

The transcript will indicate a course was audited by listing an “X” grade, but an “XW” indicating withdrawal may be given to the student at the discretion of a Faculty member for failure to adhere to attendance or class requirements of the course. A student may take a course previously audited for credit but may not petition for credit on the basis of the previous audit.

No Grade Assigned “NG”
The “NG” is used to indicate that a student has not satisfied the requirements for a non-credit class. It is also used for certain self-paced courses and continuing education classes.

No Grade Reported “NR”
The “NR” is assigned by the Registrar's Office in cases where class rolls have not been submitted in time for normal processing of grades.

Satisfactory/Unsatisfactory “S”/“U”
The “S” and “U” grades are used only for those courses that have received prior approval through the curriculum review process to award the satisfactory/unsatisfactory grades.

Grade Appeal Process
The Grade Appeal Processes apply to final course grades and grades received as a result of academic dishonesty. The appeal process described in Procedure 6Hx2-4.19 provides procedural due process to students.

Grade Appeal Process For Final Course Grades
The basis for an appeal of the final course grade shall be evaluated in terms of the standards established by the faculty member as stated in his/her syllabus, in accordance with institutional policies and state rules/statutes. The appeal must demonstrate that the faculty member did not assign the final course grade in accordance with the grading policy outlined in the course syllabus, which meets the standard defined in the Faculty Handbook.

Each Faculty member shall communicate, in writing, his/her grading policy within the first week of class meetings of each course. The elements to be considered in calculating the student’s final course grade shall be clearly articulated and all factors to be considered in arriving at the final grade shall be stated. Any appeal on the grade shall be considered against the background and the standard as set forth in the faculty member’s grading policy as stated in the syllabus. In rare cases, the syllabus may need modification. Students must be provided with any modifications to the syllabus.

Grade Appeal Process For Academic Dishonesty
The appeal shall only be based upon the student’s claim that academic dishonesty did not occur.

Preliminary Action: If a student thinks that he/she has been unfairly graded in a course, the student should meet or communicate no later than the second week of the next term with the Faculty
member in an attempt to settle the disputed grade and avoid the formal Grade Appeal Process.

The complete grade appeal procedure can be found in the Student Handbook and in the Grade Appeal Brochure. A copy of the brochure can be obtained in the Academic Advisement offices on each campus/center.

Applicable Catalog
A student who is continuously enrolled in degree, certificate or diploma programs (except summer terms) from initial enrollment to graduation may choose to meet graduation requirements specified in either the BC catalog in effect when initially enrolled or the catalog in effect at the time of graduation. If a student’s attendance is interrupted by two or more major terms (summer terms excluded), the student must meet the requirements of the catalog in effect at the time of re-entry, or at the time of graduation. A student cannot graduate under a catalog in effect at the time of initial enrollment if the College has eliminated the degree, certificate or diploma program.

Students entering specialized programs, such as the health science programs, may graduate under the provision of the catalog in effect when the student was admitted to the specialized program.

Recency of Credit
College courses completed more than 10 years ago may require validation by examination.

Graduation Honors
The calculation of the grade point average for honors includes the Broward College record and any previous credit transferred to Broward College. Students may graduate with honors in three grade point categories.

Bachelor’s Level:
Cum Laude: overall GPA of 3.250-3.499
Magna Cum Laude: overall GPA of 3.500-3.749
Summa Cum Laude: overall GPA of 3.750-4.000

Associate and Certificate Levels:
Honors: overall GPA of 3.250-3.499
High Honors: overall GPA of 3.500-3.749
Highest Honors: overall GPA of 3.750-4.000

Honor Students are recognized at graduation and honors designations will be shown on final transcripts.

Semester Credit Hour
For degree, technical certificate and Applied Technology programs the unit of credit is the semester credit hour, representing 15-16 hours of lecture instruction with 50-minute class periods. Generally, 30-32 hours of laboratory work count as one unit of credit. Clinical courses will vary in the number of hours per semester credit hour. For Vocational Certificates the unit of credit is the vocational credit. Each vocational credit represents 30 clock hours of instruction. Short sessions, Weekend College, and classes that meet less than three times per week are adjusted to include the same time equivalent as the 16 week terms.

Semester System
The academic year is divided into three semesters, also known as Terms. Each Term contains several Sessions of varying lengths to provide flexibility in the scheduling of courses. To earn a comparable unit of credit, class meeting times are adjusted during the abbreviated Sessions.

Terms I (fall) and II (winter) are approximately seventeen weeks in length. Each of these terms includes a Session 2, and a Session 4 of approximately eight weeks in length; and a Session 3 of approximately twelve weeks in length.

Term III (summer) is approximately twelve weeks in length. Term III includes Session 1, which is twelve weeks in length, and Sessions 2 and 3 which are six weeks in length.

Grade Forgiveness Policy
A student who has completed a course and desires to improve his/her grade for that course may repeat the course only if he/she has earned a “D” or “F” grade. The number of repeat attempts is limited to two per course. Repeating a course removes the previous grade only from a student’s grade point average. The original grade remains on the transcript, but only the grade earned in the last attempt is used for calculating the grade point average. The State University System articulation agreement does not allow courses to be repeated for the purpose of changing a student’s grade point average after the associate degree has been awarded.

Maximum Attempts Per Course
Per State Board of Education Rule 6A-14.0301, a student may have only three attempts per course. An attempt is defined as enrollment after the 100% refund deadline for courses beginning Term 1, 1997. Attempts include the original grade, repeat of
courses, withdrawals and audits. Courses taken at other institutions are not counted as an attempt.

A student may repeat only those courses in which a "D" or "F" grade was earned. A fourth attempt may be allowed only when a student can provide documentation of extenuating circumstances aligned to specific term dates. When documentation can be provided, the students must meet with an academic advisor and submit a petition to the Academic Standards Committee.

This rule does not apply to repeatable courses, such as applied music, choir, etc., that have been successfully completed and are now being repeated for further skill enhancement; or to courses that are required to be repeated by a regulatory agency; or those that are being repeated as part of the regulatory requirement for continuing education to stay current in a field such as teacher education.

Florida law requires colleges to assess students the full cost of instruction upon the third attempt. The law also provides for exceptions to this extra fee if there are extenuating circumstances that can be documented by the student, such as a student's serious illness, involuntary call to active military duty, changes of employment, or other extraordinary situations. Petitions for exception to the full cost of instruction based on extenuating circumstances can be obtained from any campus Registration or Advisement office.

Advisement TIP: Students are strongly encouraged to discuss the effect(s) of withdrawing or repeating a course with their advisor/counselor and financial services officer to determine the potential impact on their academic programs and financial aid status.

Course Pre-requisites and Co-requisites
Pre-requisite and co-requisite courses are listed with each course description. Pre-requisites are academic requirements that must be completed before enrolling in the next subject level. Students are responsible for knowing and satisfactorily completing pre-requisite requirements. If a student registers for a course for the next term while currently enrolled in a pre-requisite course, then the student must satisfactorily complete the pre-requisite course or withdraw from the higher-level course. Otherwise, the student may be dropped from the course for which he/she is ineligible. Students, who have completed a pre-requisite course at another institution, must furnish proof before registering for the higher-level course.

Co-requisites are courses that must be completed together such as a science course and the associated laboratory. Students cannot take one without the other. If you drop one, you must drop the other. Co-requisite academic requirements are stated within the course description section of this catalog.

Students should know what the academic requirements are before attempting to register for a course. Check the course descriptions in this catalog.

Excess Credit Hours
Florida law F.S. 1009.286 requires colleges to encourage students, who intend to enroll in a state university, to complete their respective degree program with only credit that can be applied to their degree program of study to avoid excess hours.

Effective July 1, 2009 and amended 2011, state universities shall require a student to pay an excess hour surcharge equal to out of state tuition rates for each credit hour in excess of 115 percent of the number of credit hours required to complete the baccalaureate degree program. The law also provides for exceptions to this extra fee if the credit hours were earned under certain circumstances and are not calculated as hours required to earn a baccalaureate degree.

Review 1009.286F.S for more detailed information. The statute is available online at www.flsenate.gov.

Student Ombudsman
The Campus Dean of Student Affairs shall serve as the campus and associated center Student Ombudsman, and will serve as an advocate for students’ general issues and concerns. The campus Dean of Students will guide students to appropriate personnel, and provide students with appropriate College policies and procedures. The College Ombudsman is the Vice President for Student Affairs and Enrollment Management.

If a student's issue is related to academic standards of progress, graduation requirements, access to courses, or other academic policies, the Campus Dean of Student Affairs, or program Dean for limited access programs, will refer the student to the Academic Standards Committee. The Academic Standards Committee makes recommendations to
the Vice President for Student Affairs and Enrollment Management upon reviewing the student's petition and/or after requiring the student to appear before the committee and interviewing the student regarding the circumstances. The Vice President for Student Affairs and Enrollment Management may accept the committee’s recommendations or make a different determination based on the facts and information presented by the student and/or the committee.

**Academic Standards Committee**

Broward College students, who seek exceptions to the rules, regulations, and requirements of the College, or revocation of dismissal from the College or other institution for academic or disciplinary reasons, must submit their requests in writing to the Student Academic Standards Committee. The Academic Standards Committee reviews petitions for exceptions from students on matters related to college rules, regulations and requirements, including but not limited to: standards of progress, graduation requirements, and repeating courses. The Committee makes recommendations to the Vice President for Student Affairs and Enrollment Management.

The following procedure shall apply to requests for exceptions to established academic policies:

1. The student shall complete the Academic Standards Petition that is available online and at all student affairs offices. The Petition shall include all pertinent and relevant documentation such as transcripts, letters from the transferring institution, or medical documentation. If the petition is a request for admission while on suspension or dismissal from another institution, the student should include a letter of support (if available) to attend Broward College from the previously attended institution.

2. All requests for fourth (4th) course attempts must include documentation that is in compliance with State Statute and aligned to the course date of the course failures and withdrawals.

3. The Campus Dean of Student Affairs or designee must sign the petition and forward it to the Associate Vice President for Student Affairs/College Registrar’s Office by the deadline. Any exceptions to the deadline must be approved by the Campus Dean of Students or Center Dean based on extenuating circumstances.

4. The dates, places and times of the Academic Standards Committee are published in the College calendar and can be obtained from the campus/center student affairs offices.

5. In cases involving entering new or re-entering Broward College students who are requesting re-entry after academic suspension or a code of conduct violation that caused suspension, the student shall be required to attend the meeting. Students will appear before the Committee in order of the student’s scheduled appointment.

6. After careful review of the petitions, the Committee shall make recommendations to the Vice President for Student Affairs and Enrollment Management. The Vice President for Student Affairs may accept the recommendations from the Committee or make a different decision based on the facts and information presented by the student and/or the committee.

7. The student shall be notified of decisions in writing by the Vice President’s office.

**Academic Honesty**

Broward College expects its students to be honest in all of their coursework and activities. Breaches of academic honesty include, but are not limited to, cheating, plagiarism, misrepresentation, bribery, and the unauthorized possession of examinations, papers, or other class materials that have not been formally released by instructors. A student's academic work must be the result of his or her own thought, research, or self-expression.

The term “cheating” includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when specifically prohibited from doing so by the instructor, looking at text, notes or another person’s paper during an examination when not permitted to do so.

Cheating also includes the giving of work formation to another student to be copied and/or used as his or her own. This includes, but is not limited to, giving someone answers to exam questions either when the exam is being given or after having taken an exam; informing another student of specific questions that appear or have appeared on an exam in the same academic term; giving or selling a term paper, report, project or other restricted written materials to another student.
The term “plagiarism” includes, but is not limited to, an attempt of an individual to claim the work of another as the product of his or her own thoughts, regardless of whether that work has been published. Plagiarism includes, but is not limited to, quoting improperly or paraphrasing text or other written materials without proper citation on an exam, term paper, homework, or other written material submitted to an instructor as one’s own work. Plagiarism also includes handing in a paper to an instructor that was purchased from a term paper service or downloaded from the Internet and presenting another person’s academic work as one’s own. Individual academic departments may provide additional examples in writing of what does and does not constitute plagiarism, provided that such examples do not conflict with the intent of this policy.

Breaches of Broward College's policy on academic honesty may result in academic penalties and/or disciplinary action. At the discretion of the instructor, academic penalties may include, but are not limited to, a failing grade for a particular assignment or a failing grade for the course. In addition, the instructor or another BC employee may refer a student to the Dean of Student Affairs for student disciplinary action in accordance with the BC Student Handbook. Such discipline may include suspension or expulsion from the College.

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. For more information about FERPA, please review the Section on Student Rights and Responsibilities in this Catalog.
Student Support Services

- Academic Advising and Educational Planning
- Career Planning and Employment Services
- Disability Services
- Bookstores
- Learning Resource Centers
- 24/7 Online Tutoring for BC Students
- Libraries
- Mentor Program
- Childcare Services
Student Support Services

Academic Advisement and Educational Planning
Academic Advisors and Counselors are available on each campus/center to instruct and counsel students in the following areas:

- Career and Educational planning.
- Choosing appropriate courses for desired major.
- Utilizing self-advising resources/tools.
- Coaching on strategies that promote academic success, such as study skills, time management, test anxiety, decision-making and communication skills.
- Preparation for university transfer or the workforce.

For further information and support, students may contact our Advisors and Counselors:

A. Hugh Adams
Central Campus 954 - 201-6528
North Campus  954 - 201-2305
Judson A. Samuels South Campus 954 - 201-8875
Willis Holcombe Center 954 - 201-7491
Pines Center 954 - 201-3601
Weston Center 954 - 201-8501

NOTE: All first-time-in-college degree-seeking students are required to attend an Advisement and Registration Session (AAR) prior to their first semester for academic advisement.

At an AAR Session, students will learn to use the online self-help advising tools, degree audit, and self-registration system.

Career Center
Career planning is available to all students and alumni of Broward College. A variety of services are available to assist student with setting career goals, and preparing for a job. At the Career Center students are provided the resources to research their career options.

Define Yourself:

- Take self-assessments to generate a list of prospective occupations that match the preferred work activities, interests, personality preferences, values, skills and life goals.
- Use computerized career information systems and print materials to evaluate various careers, working conditions, salary levels, and employment outlook.
- Research career options that match majors.
- Make an appointment for individual career advising and/or job-seeking assistance.
- Access online information and advisement manuals for transfer requirements about the programs they may wish to pursue.
- Access national educational directories and career libraries.

Employment services are available to all students and alumni of Broward College. A variety of services are available to assist students in making career decisions.

Career Guidance:

- Access full or part-time job listings and internships posted through the campus’ Career Center.
- Access student work-study jobs online and jobs posted on the Broward College’s website.
- Learn about on-campus employer recruitment events.
- Obtain assistance with resume and cover letter writing strategies.
- Develop successful job interviewing skills.

A student may visit a self-service campus Career Center at the campus location of his/her choice.

A. Hugh Adams Central Campus
Building 19, Room 116  954 - 201-6612

North Campus
Building 46, Room 238  954 - 201-2272

Judson A. Samuels South Campus
Building 68, Room 100  954 - 201-8865
Some of the services available are adaptive technology, specialized testing, sign language interpreters, real-time captioners, readers, scribes, and note-takers. Students receiving assistance from Vocational Rehabilitation or the Division of Blind Services are required to apply for financial assistance at Broward College. For further information, call 954 - 201-7545.

Disability Services Advisors also provide academic advising and assist students with their educational plans.

**Bookstores**
The Broward College Bookstores are owned and operated by the College and function as a service to the students, faculty, administration and staff. The bookstores offer a complete line of textbooks, both new and used, and a large selection of trade and reference books. There are an extensive assortment of e-textbooks, laptops, art supplies, gift items, engineering supplies, college rings, license plate holders, mugs, shirts, hats, health science uniforms, health science supplies, dictionaries, backpacks, computer supplies, Microsoft, Adobe & Macromedia software's, candies and snacks, soft drinks, pennants, calculators, tape recorders, PDA’s, jump drives, MP3 players, printers, UPS protectors, zip drives, pens and pencils, notebooks, highlighters, diploma and picture frames, decals, newspapers, 3-ring binders, index cards, test supplies.

Gift certificates are available in the bookstores in various denominations. Services also include special orders for books and software not normally carried as basic stock, and buy-back of used textbooks. Prices are established according to the national standard typically found at other colleges and universities. The bookstore accepts Visa, Master Card, Amex & Discover credit cards. Textbooks can be ordered online at [www.broward.edu/bookstore](http://www.broward.edu/bookstore). Bookstore hours of operations are posted on the BC web-site.

A. Hugh Adams Central Campus, 
Building 19  
954 - 201-6830

North Campus, Building 46  
954 - 201-2224

Judson A. Samuels South Campus  
Building 67  
954 - 201-8805

Willis Holcombe Center  
HEC Building 33, 2nd Floor  
954 - 201-7402

Pines Center, Building 101  
954 - 201-3604

Weston Center  
Building 110, 2nd Floor  
954 - 201-8528
Learning Resource Centers
The overall goal of the Learning Resource Center on each of the campuses is to provide faculty and students with access to up-to-date instructional and support services in both the classroom and learning laboratories. BC Student ID Cards validated for the current term are required at each BC LRC.

Each of the Learning Resource Centers also maintains a hands-on self-study area for Anatomy and Physiology review. Models and study materials are available for individuals or small groups.

In addition, open computer labs with direct Internet access are available to students on each of the campuses/centers for both research and homework needs.

Discipline Support Labs
Discipline Support Labs exist to help students succeed in their courses. Each campus/center has a discipline lab for English/ESL, Math, Modern Foreign Languages, Reading, Science Resource Lab, and Open Computer Labs. These labs assist students with both college-prep and college level courses.

Tutoring
Tutoring services are available for several subject areas. Interested students should contact the Learning Resource Center on each campus for tutoring details or visit http://www.broward.edu/success/lrc/.

Students can find tutoring information for Central Campus on Facebook, just search for “central campus tutoring”.

24/7 Online Tutoring for BC Students
College students now have 24/7 online tutoring access! Smarthinking provides real time online tutoring and homework help for core courses and skills up to 24 hours a day, seven days a week. To access online tutoring help, log on to myBC at the Broward College homepage at www.broward.edu and click on the Smarthinking.com link.

A Step-by-Step Smarthinking Student Handbook guide is available for students on Smarthinking “My Home Page” in “My File Cabinet” in the information scrolling box.

If assistance is needed with accessing a Smarthinking account, please go to the Learning Resource Center at the Central Campus.

Classroom Support
Another function of the learning resource center is to support quality instruction by providing computer/audio visual equipment and materials to the campus classrooms. Each campus maintains an extensive library of video and other instructional materials to enhance classroom instruction. Specific information regarding availability and scheduling procedures for the use of classroom materials and equipment may be obtained by contacting the campus Learning Resource Centers.

A. Hugh Adams Central Campus
   Building 17 954-201-6660
   North Campus, Building 62 954-201-2260
   Judson A. Samuels South Campus,
   Building 72 954-201-8909
   Pines Center, Building 101 954-201-7595
   Willis Holcombe Center
   HEC Rm. 430 954-201-7595

Libraries
The library on each of the College's campuses is a joint use facility. Consequently, policies, procedures, and hours of operation differ slightly from one location to another.

On the A. Hugh Adams Central Campus, the University/College Library is located in Building 17. The library is a joint use facility operated by Broward College and Florida Atlantic University. The mission of the library is to provide academic support to students and to create a stimulating environment that will encourage academic achievement. Students have access to a large book collection and electronic resources available for use in the building or remotely. Information and resources provided by the University/College Library are available through the Web.
Students on the College's North and Judson A. Samuels South Campuses are also served by joint-use facilities. The College and Broward County jointly operate these libraries. On North Campus, the joint BC/Broward County Library is located in building 62, and on the Judson A. Samuels South Campus, the joint BC/Broward County Library is located in building 81. Both of these facilities have access to the county's electronic catalog which permits the user to search all the holdings in the entire Broward County Library System as well as a large assortment of electronic databases. Research using the catalog and electronic databases is available at each library location, as well as through the College's web page.

Students who attend the Willis Holcombe Downtown Center or the Pines Center will find a Broward County Library located nearby.

**Library Cards**

BC students are eligible to use all campus libraries. However, due to their particular partnerships, different cards are required on the campuses to check out materials. Students must have a BC identification card in order to check out materials from the University/College Library on the A. Hugh Adams Central Campus. Students at the North and Judson A. Samuels South Campuses and the Willis Holcombe Downtown Center and the Pine Centers must have a Broward County library card. Since each location is unique, materials that have been checked out must be returned to the campus from which the material was borrowed.

The library staff encourages students and faculty to make suggestions for the improvement of service and appreciates recommendations for titles to be added to the collection. Qualified staff is available at each location to help patrons identify, locate and use library materials. For further information and for the different campus library hours of operation, please contact the individual campuses.

- A. Hugh Adams Central Campus
  - Building 17
  - 954-201-6648

- North Campus
  - Building 62
  - 954-201-2261

- Judson A. Samuels South Campus
  - Building 72
  - 954-201-8909

- Pines Center, Building 101
  - 954-201-3619

- Broward County Main Library
  - 954-357-7444

**Peer Mentoring**

The Peer Mentoring Program was developed to provide an opportunity for new first-time in college students to connect with mentors who are knowledgeable of Broward College. Peer Mentors are experienced students who assist new students in their academic transition into college. They provide first-year students with information, support, and encouragement to be successful.

Peer Mentors help students set goals, familiarize students with college resources, help students develop leadership skills, build self-confidence, make connections with faculty and staff, and provide them with a positive support system. The program requires Peer Mentors to meet with their mentees once per week and make additional contacts by telephone; e-mail, text message, and Facebook and use a mentoring log to document these contacts.

To become a Peer Mentor, students are expected to demonstrate outstanding academic performance within their major field of study. Peer Mentors are trained in navigating the college systems, and in mentor roles and responsibilities. Peer Mentors also have the opportunity to develop their organizational and interpersonal skills by planning and participating in a variety of college activities developed by the Peer Mentoring Program.

For further information, please contact the Student Success Office at each campus:

- North Campus - 954-201-2310
- Central Campus – 954-201-6869
- South Campus – 954-201-8994

**The Council on the Social Status of Black Males**
Broward College’s Council on the Social Status of Black Males was established in the Fall of 2008 to develop programmatic efforts and mentor programs to improve the retention and graduation rates of Black males. Council members volunteer as mentors for Black Male students.

**Encourage Broward Mentor Program**
Encourage Broward is an e-mentoring program to assist Black and Latino Male students. Community volunteers serve as mentors who contact Black Male students and mentor them through electronic communication.

**Brother to Brother Mentor Program**
Brother to Brother (B2B) is a mentoring program in which highly successful Black and Hispanic Male students are trained to mentor incoming freshman males. The goal of the program is to provide student mentors who assist with the transition to college, and engage participants in a weekly study group. The B2B mentors serve on North, South, and Central campuses.

**Childcare Services**
Broward College entered into an agreement with Academy for Early Learning to provide childcare services for students and faculty on all three campuses. Further, all campuses offer a free government sponsored VPK (Voluntary Pre-Kindergarten) school Readiness Program for children up until the age of 4 before the public school year begins in August. The VPK children are allowed to stay at the center without being charged from 9:00 am-12:00 pm. Wrap-around care is available on a payment basis for $75.00 per week from 7:00 am-9:00 am and 12:00 pm -6:00 pm.

The mission of the Academy is to provide the highest quality Early Childhood Program to serve the needs of the Broward College community. The educational program is based on best practices as well as a developmentally and culturally appropriate curriculum as outlined by National Association for the Education of Young Children (NAEYC).

There are a limited amount of childcare subsidies available to Pell eligible students on each campus. Applications can be obtained at the campus childcare centers. Students are encouraged to apply and placement is on a first-come, first-serve basis. For cost and further information, contact one of the childcare center locations:

**BC-North Campus**
Little Learners' College  
1150 Coconut Creek Parkway, Bldg 63  
Coconut Creek, Fl. 33066  
(954) 201-2440, Fax 954 - 201-2445  
Director: Leta Wilson

**BC/FAU Child Development Center**  
3501 SW Davie Road, Bldg 27  
Davie, Fl. 33314  
(954) 201-6987, Fax 954 - 201-6985  
Director: Cindy Bonds

**BC-South Campus Child Development Center**  
7200 Pines Boulevard, Bldg 73  
Pembroke Pines, FL 33024  
(954) 201-8651, FAX 954 - 201-8653  
Director: June Paul
Student Activities

Student Life

Student Organizations

Student Government

Tigertail Lake Recreational Center

Intercollegiate Athletics

Student Publications
Student Activities

Student Life
Student Life activities are available to all currently enrolled Associate and Baccalaureate degree students. Students who wish to participate in Student Life activities and services must hold a valid BC student ID.

Student Life offices provide oversight, information and support for student clubs, student government, student development and leadership, and new student orientation. In addition, students can get information and services related to the following: bulletin board approval, bus schedules, student ID card services, and campus events.

Student Life also coordinates intramural/recreational sports, which are comprised of a variety of competitive athletic leagues and tournaments. To learn more about activities/programs, contact a Student Life Office at any of the following locations or visit student life online at http://www.broward.edu/studentlife/.

- A. Hugh Adams Central Campus
  Building 19, Room 106 954 201-6756
- North Campus
  Building 46, Room 133 954 201-2325
- Judson A. Samuels South Campus
  Building 68, Room 189 954 201-8316
- Willis Holcombe Downtown Center
  Building 33, Room 107 954 201-7377
- Pines Center
  Building 100, Room 119 954 201-3630

Student Organizations
Student organizations, clubs and programs contribute to the total experience of the college student. Operating under the supervision of the Campus Dean of Student Affairs and the Campus Director of Student Life/Development, student organizations encourage cultural, social, and intellectual development. Currently enrolled students including baccalaureate degree seeking students are encouraged to participate. Detailed information on current campus organizations can be obtained in the Student Handbook, which can be visited online at www.broward.edu/current/StudentHandbook.jsp

Honor Societies
The College supports participation in academic honors societies for those students who meet eligibility requirements. Including:
- Honors Student Committee (General Honors)
- Kappa Delta Pi (Education)
- International Society of Baccalaureate Scholars (General Honors for Baccalaureate Students)
- Phi Theta Kappa (General Honors)
- Sigma Kappa Delta (English)

For more information, contact your respective Student Life Office.

Student Government
Student Government operates on all campuses. Students are encouraged to participate and represent student interests. Officer positions in student government are available for all students. Additionally, The College designates bachelor degree students for positions within student government. For more information, contact your respective Student Life Office.

Tigertail Lake Recreational Center
The Tigertail Lake Recreational Center provides watersports programs, a conference facility, the ropes challenge course, recreational trips, and credit and non-credit water sports classes. Watersports training and recreational opportunities are offered in sailing, windsurfing, SCUBA, and kayaking to BC faculty, students, and staff. Students are welcomed to come out for FREE watersports rentals 6 days a week, or get involved in these programs by taking a Continuing Education or 1 credit elective activity class at Tigertail Lake. Tigertail also offers trips to the Keys and Central Florida to hone water sports skills. These trips offer students the opportunity to experience an open water environment. The Ropes Course offers students a free Open Climb Challenge once per month for the chance to experience climbing opportunities at Tigertail Lake. The Tigertail Lake Recreational Center is located on the entrance drive to Outdoor World in Dania Beach. Please call the Tigertail Lake Recreational Center at 954 201-4500 for information and a brochure, or visit Tigertail Lake online at http://www.broward.edu/watersports/.

Intercollegiate Athletics
The purpose of the BC intercollegiate athletic program is to provide an opportunity for students to learn the values of self-discipline, sportsmanship,
team building, and academic excellence. BC Intercollegiate athletics fosters the development of physical, intellectual, emotional and social skills in student athletes and encourages athletes to carry these lessons onto the playing field, into the classroom, and in the community. BC currently fields teams in men's and women's basketball, men's and women's soccer, men's baseball, women's softball, women's volleyball, and women's tennis. Scholarships are offered to some student athletes. For more information, call the Athletics Office at 954 201-6853 or visit Athletics online at www.broward.edu/athletics.

**Student Publications**

Student publication positions are available to all currently enrolled students including those enrolled in baccalaureate programs.

**The Observer**

Broward College encourages and supports a free and responsible student press. The Observer, the College's bimonthly newspaper, is a combined product of students from the journalism program at North, A. Hugh Adams Central, and Judson A. Samuels South campuses. Student reporters engage in responsible, objective practices of writing, while those interested in photojournalism, design, graphics, desktop publishing and advertising can apply their abilities in preparing camera-ready pages for print. The Observer is a highly touted collegewide student publication, having received All-American ratings and two national Pacemaker ratings from a national critiquing service, in addition to numerous state awards since its inception in 1986. Many student editors receive scholarships to produce The Observer. For more information, contact the advisor, at 954 201-8035. Students may visit the Observer online at www.broward.edu/observer.

**P'an Ku**

P'an Ku is the BC Student Literary/Arts Magazine. Published twice yearly, P'an Ku features the creative efforts of students throughout the College in the literary and visual arts. Poetry, short stories, art, and photography are sought for publication. Watch for the announcements of submission deadlines during the year. P'an Ku has won both regional and national awards. P'an Ku, housed at the Judson A. Samuels South Campus, encourages students from all campuses to participate. The magazine is looking for writers, artists, photographers, and anyone else who would like to be part of the staff. A limited number of scholarships are available for those who serve in the various editorial positions. No prior experience is needed, only enthusiasm! For more information, call the Faculty Advisor, Dr. Patrick Ellingham at 954 201-8858 or the editorial office at 954 201-8044. You can also visit the P'an Ku website online at www.broward.edu/panku.

Broward College Baseball Team
2010-2011 Florida College State Activities Association Southern Conference Champion
Student Rights and Responsibilities

- Family Educational Rights and Privacy Act (FERPA)
- Student Code of Conduct
- Dismissal of Disruptive Students
- HIV/AIDS
- Complaint Process for Students for Non-Instructional Issues
Student Rights and Responsibilities

Family Educational Rights and Privacy Act (FERPA)

Broward College Policy 6Hx2-5.03

Broward College (the “College) will provide access to student records in accordance with the Family Educational Rights and Privacy Act (FERPA) and Florida Statutes, Chapter 1002.22. All requests for student records must be made to the Custodian of Records/Vice President for Student Affairs and Enrollment Management.

No record will be created or retained without a legitimate educational purpose for the information contained therein.

The College will protect the confidentiality of a student's record and share information only with members of the College community who have a legitimate educational interest, to another educational institution when the student is seeking or intending to enroll at that institution, is part of an authorized Federal, State, or local audit of such records in compliance with applicable law, in connection with the determination of financial aid eligibility or enforcement, pursuant to a lawfully issued court order, a properly prepared subpoena, to a contracted vendor of the College performing an authorized service where there is a legitimate educational interest for the vendor to have access to such records, or the information is designated directory information.

In response to a lawfully issued court order or a properly prepared subpoena, the College will seek to notify the student or the student’s representative counsel when educational records are requested and before these records are released.

Student records of a counseling or non-academic nature will not be made available to any outside person without written authorization from the eligible student or parent unless those records are specifically requested in conjunction with federal or state laws or court orders. In the case of properly prepared subpoenas, the release of the record will only be given when the student has been notified and payment of the fee established by the Board of Trustees has been paid.

FERPA and the Student

Students have the right to inspect their own official records and to authorize the College in writing to release information to outside sources. In accordance with the provisions of Florida Statutes, Chapter 1002.22, eligible students and parents have a right to challenge the content of their record. An eligible student or parent may exercise his/her rights under these provisions by submitting a request in writing to the appropriate Campus Registration Coordinator, the Office of the Associate Vice President for Student Affairs/College Registrar, or the Vice President for Student Affairs and Enrollment Management.

Student-generated documents are not considered working documents of the College or permanent student records, and it is the responsibility of the student to dispose of the document should they produce the document. A student-generated document is information generated by the student for his/her own use. When such a document is presented to the College, it shall be reviewed and then returned to the student or eligible parent.

FERPA and the Parent of the Student

According to Federal FERPA Regulations 34 CFR 99, and Florida Statute 1002.22, the parents of a student who has reached the age of 18 years or is enrolled in a post-secondary program no longer have any rights under the provisions of this policy, unless the student gives written consent to release the information to the student's parents, or the parent provides evidence that the student is a dependant of the parent as defined in the Internal Revenue Code. The Parent of a student must establish his/her eligibility by providing dependency documents, including, but not limited to providing the most recent copy of a Federal tax return naming the student as a dependent. Such documentation must be provided in-person with the campus chief student affairs officer (dean of students). The record provided will be for viewing and validation purposes only; these records will not be retained.

FERPA and Directory Information

Schools may disclose, without consent, "directory" information; however, the College must annually notify students and parents of their rights under FERPA to “opt out” of the release of directory
information. The College notifies its students at the beginning of the fall and winter term in the student newspaper and in the annual printing of the Student Handbook. The College reserves the right to deny access to directory information when such action is deemed necessary to protect the rights of the student.

In accordance with United States Code Title 10 Section 983 and Florida Statutes Section 1004.09, the College shall grant military recruiters access to recruiting information including the names, addresses, telephone listing, dates and places of birth, academic major, degrees received, and most recent educational institution for students attending the College. The information provided to military recruiters is not subject to the definition of “directory information” as defined in this Policy. Students who opt out of the release of College directory information will also be considered to have opted out of the release of military recruitment information.

FERPA and Outsourcing
The College may enter into agreements with outside vendors to provide services to the College that the College cannot or chooses not to provide through internal resources. In such situations, the College will ensure that the contractor will make available student records only to those individuals where there is a contractual relationship to provide such services. The College will ensure that the contracted vendor will not redisclose personally identifiable information without the College’s consent as allowed by an authorized FERPA exception.

FERPA and other Educational Institutions
Student records will be released at the request of the student if the student is seeking or intending to attend another educational institution.

FERPA and Health and Safety
In cases where there is a health and safety emergency, all College personnel are authorized to utilize any information as necessary to protect the health and safety of persons and property. Such release of information will not be considered a violation of College Policy. To the extent possible, the College will attempt to share information regarding the presence of students who may have a communicable disease (i.e. H1N1) without disclosing personally identifying data about the infected student. In instances where members of the College community have been exposed to a communicable health risk from a student, the College will, on a case-by-case basis, make a determination whether a disclosure of the infected student’s name is necessary to protect the health or safety of other persons or whether a general notice is sufficient.

Law enforcement unit officials or safety officials employed or contracted by the College are designated as “school officials” with a “legitimate educational interest.” As school officials, the College may disclose without consent personally identifiable information from students’ education records to law enforcement or safety officials in order to perform their professional duties and to assist with discipline and other matters related to official duties at the College. Law enforcement may not redisclose any personally identifiable information from the students’ education record, except in compliance with FERPA. Specific law enforcement records maintained separately from education records are not subject to FERPA.

VIOLATION OF POLICY
Students and eligible parents who believe there has been a violation of their rights regarding student records are encouraged to contact the Custodian of Records/Vice President for Student Affairs and Enrollment Management. If a resolution is not achieved, students and eligible parents may grieve the alleged misconduct in accordance with Florida Statutes, Chapter 1002.22 or they may contact the United States Department of Education’s Family Policy Compliance Office.

Students who improperly obtain student records may be subject to discipline in accordance with the Student Code of Conduct.

DEFINITIONS
Custodian of Records – Vice President for Student Affairs and Enrollment Management

Directory Information – name, enrollment status, degrees and awards received, and statistics pertaining to a student’s participation in officially recognized sports and activities.

Eligible student - a student who has reached 18 years of age or is attending an institution of postsecondary education

Eligible Parent - a natural parent, an adoptive parent, or a legal guardian of the student as defined in the
Student Rights and Responsibilities

Internal Revenue Code of 1954. An individual invoking the Code must present evidence showing his/her compliance with this provision.

Student Record - files, documents, electronic images, and other formats which contain information directly related to a student and which are maintained as a permanent record at the College. Drafts or notes are not considered student records. The term “Records” does not include:

1. records of instructional, supervisory, and administrative personnel, which are in the sole possession of such personnel and which are not accessible or revealed to any other person except as a replacement for that person;
2. records of law enforcement units of the College, which are maintained solely for law enforcement purposes and which are not available to persons other than officials of the College or law enforcement officials of the same jurisdiction;
3. records made and maintained by the College in the normal course of business which relate exclusively to a student in his/her capacity as an employee/student worker and which are not available for any other purpose;
4. records created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his/her professional or paraprofessional capacity or assisting in that capacity, which are created, maintained, or used only in connection with the provision of treatment/or services being provided to the student and which are not available to anyone other than persons providing such treatment and/or services in accordance with Title II of the Health Insurance Portability and Accountability Act (HIPAA),
5. directory information as defined in the Florida Statutes, Chapter 1002.22 and the FERPA;
6. other information, files, or data which do not permit the personal identification of a student;
7. letters or statements of recommendation or evaluation which were confidential under Florida law and which were received and made a part of the student’s educational records prior to July 1, 1977;
8. copies of the student’s fingerprints; and
9. working records, which consists of material used in the course of daily College business, which is not a “permanent record.”

Student Code of Conduct
Broward College Policy 6Hx2-5.02

Upon admission to Broward College (the “College”), students and student organizations agree to act responsibly in all areas of personal and social conduct and to take full responsibility for their individual and collective action. Because learning can only be achieved in an atmosphere free of intimidation and coercion, students must observe local, state, and federal laws as well as the academic and behavioral regulations found in the Broward College Student Handbook, the College Catalog, other official publications of the College, and the College web site at http://www.broward.edu/. If there is a conflict with any of the aforementioned sources, this policy shall prevail.

The following is a non-exclusive list of behaviors prohibited by students and student organizations at any College location or via any College resource including electronic communication, at any College-sponsored activity, or at any location and/or via any medium (including electronic) if the behavior impacts students, faculty, or staff in the educational environment. Other behaviors not on this list which adversely impact the College community will be considered on a case-by-case basis and may also be considered violations of the Student Code of Conduct:

1. Abusive Conduct
2. Bribery
3. Bullying, including but not limited to the following behaviors directed at an individual or a group:
   a. Unwanted teasing
   b. Threatening or intimidating behaviors
   c. Stalking
   d. Public humiliation
   e. Spreading malicious and derogatory rumors or falsehoods
f. Using discriminatory slurs against an individual or group

g. Cyberbullying – the use of communication-based technologies, including cell phones, e-mail, instant messaging, text messaging, social networking, other web-based technologies, or other electronic methods of communication (either currently available or available in the future) to engage in deliberate harassment or intimidation of individuals or groups.

4. Discriminatory comments or action and/or retaliatory actions, including, but not limited to remarks or actions against a student, faculty, or staff member of the College

a. Note: Complaints against faculty and staff are not covered under this policy. Students should refer to BC Policy 6Hx2.3.34 – Discrimination, Harassment and Retaliation if they believe they have been the victim of discrimination or retaliation by a College faculty or staff person.

5. Dishonesty, including but not limited to the following:

a. Cheating, plagiarism, or other forms of academic dishonesty

b. Using electronic devices to store, retrieve, search for answers and/or share answers in testing environments when the use of the device is not permitted

c. Furnishing false information, making false accusations, or misrepresentation of oneself or others to any College official, including but not limited to faculty, staff or administrators, representing oneself as an agent of the College, and/or entering into a contract on behalf of the Board of Trustees

d. Forgery, alteration, or the misuse of any College document, record, or instrument of identification

e. Tampering with the election of any recognized College student organization

6. Disobedient Conduct

7. Disruption of the Educational Environment – including but not limited to:

a. To ensure the quality of the educational environment, the use of electronic communication and entertainment devices, such as cell phones, iPods, iPhones, MP3s, etc. by students in the classroom is prohibited unless otherwise explicitly stated by the individual instructor’s syllabus. Therefore, all such devices must be inaudible and placed out of sight during class.

8. Hazing as defined in Florida State Statute, Chapter 1006.63

9. Misbehavior - Any behavior that is inappropriate and detrimental to the mission, goals, and purpose of the institution

10. Misuse of College Identification as defined in College Policy 6Hx2.5.1

11. Non-Compliance with Directions – Non-compliance with the directions of College personnel or law enforcement officers acting in the performance of their duties and/or failure to identify oneself to these persons when properly requested to do so

12. Non-Compliance With the Student Discipline System, including but not limited to:

a. Failure to appear before the Dean of Students, Hearing Officer, Student Conduct Committee, or other College officials when requested to do so

b. Falsification, distortion, or misrepresentation of information before a Student Conduct Committee

c. Disruption or interference with the orderly conduct of a Student Conduct Hearing

d. Knowingly making false accusations of student misconduct without cause

e. Attempting to discourage an individual's proper participation in, or use of, the student discipline system

f. Attempting to influence the impartiality of a member of a
Student Conduct Committee prior to, and/or during the course of, the Student Conduct Hearing

g. Harassment (verbal or physical) and/or intimidation of a member of a Student Conduct Committee prior to, during, and/or after a Student Conduct Hearing

h. Failure to comply with the sanction(s) imposed under the Student Code

i. Influencing or attempting to influence another person to commit an abuse of the student discipline system

13. Obstruction of Pedestrian or Vehicular Movement

14. Public Intoxication/Disorderly Behavior

15. Smoking in Non-Designated Areas

16. Sexual Battery/Assault

17. Sexual and other Harassment by students against any member of the College community

a. Note: Complaints against faculty and staff are not covered under this policy. Students should refer to BC Policy 6Hx2-3.31 – Sexual and Other Workplace Harassment if they believe they have been the victim of sexual or other harassment by a College faculty or staff person.

18. Student Organization Misconduct - Student organizations (as well as members and officers individually and collectively) may be held accountable when an alleged offense is committed by one or more members or guests of the organization and any one the following conditions apply:

a. The offense occurred at an event that was sanctioned by an officer of the organization.

b. Organizational funds are used to finance the activity

c. The event where the offense occurred is substantially supported by the organization’s membership

d. Members with knowledge of the forthcoming violation did not attempt to prevent the infraction

e. The organization fails to report or chooses to protect the individuals(s) alleged to have committed the offense

19. Theft or Damage, or Attempted Theft or Damage, to a Person’s or the College’s Property

20. Unauthorized Computer Usage as Defined in College Policies 6Hx2-8.01, 6Hx2-8.03

21. Unauthorized Demonstration - participation in a campus demonstration where the students behavior (including but not limited to excessive volume, obstruction of movement or access to College facilities or services, harassment of other students, faculty, or staff etc.), disrupts the normal operations of the College and infringes on the rights of other members of the College community through, or leading or inciting others to disrupt scheduled and/or normal activities within any campus/center building or area, or intentional obstruction which unreasonably interferes with freedom of movement, either pedestrian or vehicular

22. Unauthorized Possession, Duplication, or Use of Keys to Any College Facility

23. Unauthorized Possession, Use, or Distribution of Controlled Substances or Alcohol as defined in College Policy 6Hx2-5.18

24. Unauthorized Recording - Students may not make an audio or video recording of an instructor or speaker’s seminar, lecture, tutorial or other instructional setting without prior consent from the instructor or speaker. However, if such recording is an accommodation in accordance with the Americans with Disabilities Act, prior notification is required, rather than consent. Students may not make an audio or video recording of persons in conversation without prior consent of all parties

25. Unauthorized Use of College Property or Facilities

26. Violation of Law and College Policy - Students may be subject to discipline per the Student Code of Conduct for
violations of law that occur on College premises or at any College-sponsored activity, and for violations of law that do not occur on College premises or at College-sponsored activities:

a. If a student is charged only with an off-campus violation of federal, state, or local laws, but not with any other violation of this Code, disciplinary action may be taken and sanctions imposed for grave misconduct which demonstrates flagrant disregard for the College community and/or which could disrupt the educational mission of the College. Such an off-campus violation must be of a nature that where the presence of the student at a College campus is reasonably considered to be a danger to persons or property.

b. College disciplinary proceedings may be instituted against a student charged with violation of a law that is also a violation of this Student Code. Proceedings under this Student Code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.

c. When a student is charged by federal, state or local authorities with a violation of law, the College will not request or agree to special consideration for that individual because of his or her status as a student. If the alleged offense is also the subject of a proceeding before the Student Conduct Committee under the Student Code, however, the College may advise off-campus authorities of the existence of the Student Code and of how such matters will be handled internally within the College community.

d. The College will cooperate fully with law enforcement and other agencies in enforcing the law on campus and in the conditions imposed by a judge in a court-of-law. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives, as they deem appropriate.

27. Violation of Published College Policies/Procedures, Rules or Regulation.

28. Weapons and Dangerous Materials - Possession of firearms, dangerous chemicals and/or other weapons not deemed necessary for College purposes is forbidden at any College location or at any College-sponsored activity, including in the parking area for the college or the activity. This specifically revokes an individual’s right to carry a licensed firearm at any College location or at any College-sponsored activity; additionally, this specifically revokes an individual’s right to store a firearm in a vehicle at any College location or at any College-sponsored activity. Law enforcement personnel authorized to possess a firearm in the discharge of their duties are exempt from this policy. Authorized personnel with a specific educational purpose are exempt, but only to the specific limits outlined in their authorization. When individuals are observed with a firearm or other dangerous materials on campus, Broward College officials have the right to make reasonable inquiries to confirm that the firearm or other dangerous material is being legally carried or stored as permitted by Florida Statute and BC Policy.

29. Students enrolled in various programs at the College may also be subject to standards of conduct unique to these programs, including, but not limited to health sciences programs, Institute for Public Safety, Aviation, etc. Violations of the standards of behavior for these programs shall be considered a breach of this Code of Conduct. Students should refer to the program guidelines provided by their programs to learn
more about the standards of professional conduct that are applicable to them.

Bias-Motivated Conduct (Commonly referred to as “Hate Crimes”): The College believes that members of the College community have the right to lawfully affiliate free from harassment with social groups of their choice without fear of intimidation based on this membership. Therefore, the College will impose significantly increased sanctions against perpetrators who commit one or more of the offenses in this Policy, if the College determines that the perpetrators actions were motivated by the actual or perceived affiliation of the victim with a particular social group. Additionally, the College will support the criminal prosecution of students who engage in bias-motivated violations of this Code in accordance with Florida Statutes 775.085, Federal Statutes 18 U.S.C. § 245 & 249, and other applicable laws.

VIOLATION OF POLICY
The College retains the right to discipline students and student organizations up to dismissal from the College, for violation of this policy.

Students who are also employees of the College, who are found to have violated the Student Code of Conduct, may also be subject to disciplinary action as employees up to and including termination of their employment from the College. Any such instances will be investigated by the Vice President of Human Resources or his/her designee. Additionally, employees of the College who are also students, and who are subject to disciplinary action in their role as employees, may also be subject to disciplinary action through the Student Code of Conduct.

Breaches of the College's policies pertaining to academic dishonesty may result in academic penalties imposed by the instructor in accordance with BC Policy 6Hx2-4.19. Academic penalties may include, but are not limited to, a failing grade for a particular assignment or a failing grade for the course. Additionally, the student may be referred to the Dean of Students of the campus/center for violations of the Student Code of Conduct for disciplinary action.

The College maintains partnerships with external institutions including but not limited to educational institutions, libraries, and health services providers. A student who violates the rules of a College partner is also subject to BC Policy, including the College Student Code of Conduct. Additionally, a student who violates the College Student Code of Conduct may also be found to have violated the rules of a College partner.

College sponsored programs or sanctioned events may have their own rules and disciplinary procedures that would be applicable in addition to the Student Code of Conduct, such as the Institute of Public Safety, Aviation Institute, etc.

DEFINITIONS
Abusive Conduct - physical abuse, verbal abuse, threats, intimidation, harassment, coercion and/or other conduct which threatens or endangers the physical or emotional health or safety of any person

Bias-Motivated Conduct (commonly referred to as “Hate Crimes”) – occurs when a perpetrator targets a victim because of his or her actual or perceived membership in a certain social group, usually defined by race, color, ancestry, ethnicity, religion, sexual orientation, national origin, homeless status, mental or physical disability, gender, gender identity, political affiliation, etc. Hate crimes differ from conventional crimes because they are not directed simply at an individual, but cause fear and intimidation in an entire class of people.

Bribery – offering, soliciting, receiving, or giving money or any item or service to a College employee for the purpose of attempting to obtain assistance, priority consideration, or any benefit that would not have otherwise been provided

Bullying – behavior that inflicts physical or psychological abuse on one or more members of the College community. Such behavior may occur in-person or via electronic communication.

Cheating - includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when specifically prohibited from doing so by the instructor; and looking at text, notes or another student’s paper during an examination when not permitted to do so. Cheating also includes the giving of work or information to another student to be copied and/or used as his or her own. Including, but not limited to, giving a student answers to exam questions either when the exam is being given or after having taken an exam;
informing another student of specific questions that appear or have appeared on an exam in the same academic term; giving or selling a term paper, report, project or other restricted written materials to another student.

Code of Conduct - a set of conventional principles and expectations that are considered binding on any student at the College.

Controlled Substance – all illegal drugs and prescription drugs taken without a physician’s order.

Discrimination - treating any student, officer, employee or agent of the College differently than others are treated based upon race, color, sex, national origin, religion, age, disability, marital status, sexual orientation, veteran status, or any other legally protected classification.

Disruption - disruption or obstruction of teaching, research, administration, disciplinary proceedings, other College activities, including its public-service functions on or off campus, or other authorized non-College activities, when the act occurs on College premises.

Disorderly Conduct - conducts which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to breach the peace on College premises or at functions sponsored by, or participated in by the College.

Harassment - any verbal or physical conduct based on race, color, sex, national origin, religion, age, disability, marital status, sexual orientation, veteran status, or retaliation, and that has the purpose or effect of unreasonably interfering with the individual’s education by creating an intimidating, hostile or offensive environment.

Plagiarism - includes but is not limited to, an attempt by a student to claim the work of another as the product of his or her own thoughts, regardless of whether that work has been published; quoting improperly or paraphrasing text or other written materials without proper citation on an exam, term paper, homework, or other written material submitted to an instructor as one’s own work; and handing in a paper to an instructor that was purchased from a term paper service or downloaded from the Internet and presenting another person’s academic work as one’s own. Individual academic departments may provide additional examples in writing of what does and does not constitute plagiarism, provided that such examples do not conflict with this policy.

Retaliatory action - any material adverse action taken against the person who makes or supports a complaint of discrimination, or creating a hostile or threatening environment against such persons.

Sexual Harassment - any unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature which (1) makes submissions to or rejection of such conduct either an explicit or implicit basis for Admissions and/or academic decisions affecting the individual or (2) unreasonably interferes with the individual’s education or academic performance by creating an intimidating, hostile, or offensive environment. Conduct which falls into the definition of sexual harassment includes, but is not limited to:

- Unwelcome physical contact of a sexual nature such as patting, pinching, or unnecessary touching.
- Overt or implied threats against an individual to induce him/her to perform sexual favors or to engage in an unwelcome sexual relationship.
- Verbal innuendos or jokes of a sexual nature, including graphic or degrading verbal comments about an individual and/or his or her appearance.
- Use of sexually suggestive terms or gestures to describe a person’s body, clothing, or sexual activities.
- Displaying or posting offensive sexually suggestive pictures or materials on campus.

Student Organization - a student group that has registered with a campus/center student life office in accordance with the provisions of this policy and procedure.

Dismissal of Disruptive Students

Broward College Policy 6Hx2-5.19

Students who cannot conform to the standards of appropriate behavior as set forth in Broward College Policy 6Hx2-5.19, Student Code of Conduct, shall not be permitted to interfere with other students’
access to a college education. Broward College students are subject to federal and state law, county and municipal ordinances, and all policies and procedures of the Board of Trustees. Violation of these policies may result in appropriate action by College authorities. The campus Deans of Student Affairs are authorized to recommend to the Vice President for Student Affairs the suspension or expulsion of students based on disruptive behavior. For students who exhibit disruptive behavior serious enough to merit disciplinary action, the College may refer the students for appropriate psychological/psychiatric evaluation.

HIV/AIDS

Broward College Policy 6Hx2-5.16

Broward College recognizes the serious adverse societal and educational impact associated with the Human Immunodeficiency Virus (HIV), and Acquired Immune Deficiency syndrome (AIDS).

College students may not violate the Student Code of Conduct as it relates to discrimination against students, faculty, staff, or guests of the College based on their perception of HIV/AIDS infection.

Students enrolled in various programs at the College, including, but not limited to health sciences, Institute for Public Safety, Aviation, etc., may be required per the Program Guidelines for the particular program, to successfully complete an HIV/AIDS educational class or program as a prerequisite for admission to the program.

Students enrolled in various programs at the College, including, but not limited to, health sciences, Institute for Public Safety, Aviation, etc., may be required as part of the standards of conduct established by these programs to interact with members of the community who are infected with HIV/AIDS. Students who are not able to meet this obligation should reconsider their program choice as dismissal or disciplinary action could be taken as result of any conduct violation or refusal to service.

In accordance with the Student Code of Conduct, students who discriminate against other students, faculty, staff, or members of the community whom they believe have tested positive for HIV/AIDS are subject to discipline up to and including expulsion from the College. Additionally, it should be noted that discrimination against persons with HIV/AIDS may constitute bias-motivated conduct, which may subject the violator to stronger sanctions.

Complaint Process for Students for Non-Instructional Issues

Broward College Policy 6Hx2-5.23

A prospective or enrolled student may file a complaint, which is a written claim raised by a student, a group of students, or the student government, alleging improper, unfair, arbitrary, or discriminatory action by an employee involving the application of a specific provision of a college rule/regulation or a board policy or procedure.

A prospective or enrolled student has the right to seek a remedy for a dispute or a disagreement through a designated complaint procedure. Students should use available informal means to have a decision reconsidered before filing a complaint. No retaliation of any kind shall be taken against a student for participation in a complaint.

This procedure is to be used when a student has a concern about her/his education at the college. The objective of the procedure is to resolve problems as quickly and efficiently as possible at the level closest to the student so the student’s educational progress can continue. Nothing within this process precludes a student from seeking legal counsel at any step, at which time, the internal complaint process stops.
Academic Programs of Study

- General Education at Broward College
- Associate in Arts Degree
  Sample Course Selection, The Gordon Rule, Transfer Guarantees
- Associate in Science Degree
- Associate in Applied Science Degree
- Certificate Programs
- Baccalaureate Degrees
- College Preparatory Program
- English as a Second Language Program
Academic Programs of Study

1. Architecture & Construction
2. Business, Management, & Administration
3. Criminal Justice, Law and Public Safety
4. Education
5. Engineering & Engineering Technology
6. Health Sciences
7. Hospitality & Tourism Management
8. Humanities
9. Information Technology
10. Liberal Arts
11. Mass Communication, Graphic Design & Multimedia
12. Math and Science
13. Social and Behavioral Sciences
14. Transportation
15. Visual and Performing Arts

Baccalaureate Programs
### 1. Architecture & Construction

#### AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour Baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Architecture
- Interior Design

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

#### Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Building Construction Technology AS

### 2. Business, Management, & Administration

#### AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Accounting
- Administration (e.g. Business, Health Service, Hospitality, Public, etc.)
- Advertising
- Business Economics & Policy
- Finance
- Real Estate
- Urban & Regional Planning

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

#### Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Accounting Technology AS
- Accounting Applications, TC
- Business Administration AS
- Business Management TC
- Business Specialist-International Business TC
- Business Specialist-Small Business Management TC
- Sports Management TC
- Entrepreneurship TC
- Culinary Arts Management AS
- Food and Beverage Management TC
- Hospitality and Tourism Management AS
- International Business Management AAS
- Industrial Management Technology AS
- Global Trade and Logistics AS
- Business Specialist: Logistics Specialist TC
- Legal Assisting (Paralegal Studies) AS
- Marketing Management AS
- Customer Service TC
- Marketing Operations TC
- Legal Office Specialization
- Medical Office Specialization
- Office Management Specialization
- Office Software Applications Specialization
- Medical Office Management TC
- Office Management TC
- Office Specialist TC
- Office Support TC
### Business, Management, & Administration (continued)

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Office Administration AAS</td>
</tr>
<tr>
<td></td>
<td>Sports, Fitness and Recreation Management AS</td>
</tr>
<tr>
<td></td>
<td>Sports Management TC</td>
</tr>
<tr>
<td></td>
<td>Restaurant Management AAS</td>
</tr>
<tr>
<td></td>
<td>Travel and Tourism Industry Management AS</td>
</tr>
<tr>
<td></td>
<td>Rooms Division Management TC</td>
</tr>
</tbody>
</table>

### Baccalaureate Programs (Requires an Associate’s Degree or Dean's Approval for Admission – see Program Sheets for details)

- Supervision and Management BAS
- Technology Management BAS

### 3. Criminal Justice, Law, and Public Safety

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Criminal Justice</td>
<td>Criminal Justice Technology AS</td>
</tr>
<tr>
<td>Fire and Emergency Services</td>
<td>Crime Scene Emphasis</td>
</tr>
<tr>
<td>Pre-Law</td>
<td>Criminal Justice Emphasis</td>
</tr>
<tr>
<td>See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.</td>
<td>Polygraph Emphasis</td>
</tr>
<tr>
<td>Broward County Correctional Probation Officer Academy PSAV</td>
<td>Broward County Correctional Probation Officer Crossover to FL CMS Law Enforcement PSAV</td>
</tr>
<tr>
<td>Correctional Probation Officer Crossover to FL CMS Law Enforcement PSAV</td>
<td>Corrections Officer Academy PSAV</td>
</tr>
<tr>
<td>Corrections Officer Academy PSAV</td>
<td>Crossover From Corrections To Law Enforcement PSAV</td>
</tr>
<tr>
<td>Crossover From Corrections To Law Enforcement PSAV</td>
<td>Broward County Police Academy PSAV</td>
</tr>
<tr>
<td>Broward County Police Academy PSAV</td>
<td>Police Service Aide Academy PSAV</td>
</tr>
<tr>
<td>Police Service Aide Academy PSAV</td>
<td>Emergency Management AS, TC</td>
</tr>
<tr>
<td>Emergency Management AS, TC</td>
<td>Fire Science Technology AS</td>
</tr>
</tbody>
</table>

For some of the program listed above, student must be hired by a municipality and be approved for training.
### 4. Education

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:</td>
<td>While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster</td>
</tr>
<tr>
<td>Art Teacher Education</td>
<td>Early Childhood Education AS</td>
</tr>
<tr>
<td>Biology Teacher Education</td>
<td>This program provides graduates with the ability to design an effective educational curriculum, manage children in a classroom setting, supervise early childhood personnel, and efficiently administer childcare business operations.</td>
</tr>
<tr>
<td>Blind and Visually Handicapped Education</td>
<td></td>
</tr>
<tr>
<td>Chemistry Teacher Education</td>
<td></td>
</tr>
<tr>
<td>Early Childhood Teacher Education</td>
<td></td>
</tr>
<tr>
<td>Elementary Teacher Education</td>
<td></td>
</tr>
<tr>
<td>Emotionally Handicapped Education</td>
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<tr>
<td>English Teacher Education</td>
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<tr>
<td>Foreign Languages Teacher Education</td>
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<tr>
<td>Health Teacher Education</td>
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</tr>
<tr>
<td>Mathematics Teacher Education</td>
<td></td>
</tr>
<tr>
<td>Mentally Handicapped Education</td>
<td></td>
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<tr>
<td>Middle Grades Science Teacher Education</td>
<td></td>
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<tr>
<td>Music Teacher Education</td>
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<tr>
<td>Physics Teacher Education</td>
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<tr>
<td>Social Science Teacher Education</td>
<td></td>
</tr>
<tr>
<td>Special Teacher Education (Exceptional Student Education)</td>
<td></td>
</tr>
<tr>
<td>Specific Learning Disabilities Education</td>
<td></td>
</tr>
<tr>
<td>See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.</td>
<td></td>
</tr>
</tbody>
</table>

**Baccalaureate Programs (Requires an Associates in Arts Degree for Admission – see Program Sheets for details)**

<table>
<thead>
<tr>
<th>Exceptional Student Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle Grades General Science</td>
</tr>
<tr>
<td>Middle Grades Mathematics</td>
</tr>
<tr>
<td>Secondary Biology</td>
</tr>
<tr>
<td>Secondary Mathematics</td>
</tr>
</tbody>
</table>
### 5. Engineering & Engineering Technology

**AA to Baccalaureate Programs**

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Coastal and Ocean Engineering
- Computer and Information Engineering
- Electrical – Electronics Engineering
- Manufacturing/Industrial Engineering
- Mechanical Engineering
- Nuclear Engineering

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

**Career and Technical Education Programs including AS to Baccalaureate Programs**

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Biomedical Engineering Technology AAS
- Biomedical Engineering Technology ATC
- Computer Engineering Technology AAS
- Electronics Engineering Technology AAS
- Basic Solar Technician TC
- Electronic Solar Technician TC
- Telecommunications Engineering Technology AAS

**Baccalaureate Programs (Requires an Associates in Arts Degree for Admission – see Program Sheets for details)**

- Technology Management BAS

### 6. Health Sciences

**AA to Baccalaureate Programs**

BC offers the State of Florida AA degree that transfers to the State’s University System with the complete baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degree such as:

- Dietetics
- Food Science/Nutrition
- Health Service Administration
- Medical Technology Nutritional Science
- Pharmacy
- Pre-Chiropractic
- Pre-Medical/Dental
- Pre-Nursing
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Physical Therapy
- Pre-Veterinary Medicine
- Radiologic (Medical) Technology
- Therapeutic Recreation

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

**Career and Technical Education Programs including AS to Baccalaureate Programs**

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Basic Perioperative Nursing ATC
- Dental Hygiene AS
- Dental Assisting PSAV
- Emergency Medical Services AS
- Emergency Medical Technician ATD
- Paramedic TC
- Health Information Management AS
- Massage Therapy PSAV
- Medical Assisting PSAV
- Nuclear Medicine Technology AS
- Nuclear Medicine Technology Specialist TC
- Nursing (R.N.) AS
- LPN-RN Nursing Transition AS
- Physical Therapist Assistant AS
- Physical Therapist Assistant (Manual Techniques) ATC
### 6. Health Sciences (continued)

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Radiation Therapy AS</td>
</tr>
<tr>
<td></td>
<td>Radiation Therapy Specialist TC</td>
</tr>
<tr>
<td></td>
<td>Hospital Based Radiography AS</td>
</tr>
<tr>
<td></td>
<td>Radiography AS</td>
</tr>
<tr>
<td></td>
<td>Respiratory Care AS</td>
</tr>
<tr>
<td></td>
<td>Diagnostic Medical Sonography Technology (Ultrasound) AS</td>
</tr>
<tr>
<td></td>
<td>Vision Care (Opticianry) AS</td>
</tr>
</tbody>
</table>

Upon successful completion of a BC Health Science program, students may sit for appropriate State Licensure and/or Certification exams.

### Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)

- RN to BSN Nursing BSN – Requires a Florida RN License for Admission – see Program Sheets for details
- Supervision and Management BAS

### 7. Hospitality & Tourism Management

<table>
<thead>
<tr>
<th>Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervision and Management BAS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:</td>
<td>While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:</td>
</tr>
<tr>
<td>Hospitality Administration</td>
<td>Culinary Arts Management AS</td>
</tr>
<tr>
<td>Leisure Service Management</td>
<td>Food and Beverage Management TC</td>
</tr>
<tr>
<td></td>
<td>Guest Services Specialist TC</td>
</tr>
<tr>
<td></td>
<td>Hospitality and Tourism Management A.S</td>
</tr>
<tr>
<td></td>
<td>Restaurant Management AAS</td>
</tr>
<tr>
<td></td>
<td>Rooms Division Management TC</td>
</tr>
<tr>
<td></td>
<td>Travel and Tourism Industry Management A.S</td>
</tr>
</tbody>
</table>

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.
8. Humanities

**AA to Baccalaureate Programs**

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- African American Studies
- English
- Foreign Languages (French, German, Italian, Spanish, etc.)
- Humanities
- Jewish Studies
- Philosophy
- Religious Studies
- Women's Studies

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

9. Information Technology

**AA to Baccalaureate Programs**

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Computer and Information Engineering
- Computer and Information Science
- Computer Engineering
- Computer Science
- Information Sciences
- Information Sciences and Systems
- Management-Information Systems

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

**Career and Technical Education Programs including AS to Baccalaureate Programs**

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Computer Engineering Technology AAS
- Computer Systems Specialist AS
- Help Desk Specialist TC
- Support Technician TC
- Microsoft Office Specialist (MOS) TC
- Technical Support Specialist AS
- Application Programmer AS
- Sun Certified Java Programmer TC
- Microsoft Professional Database Administrator (MCDBA) AS
- Oracle Professional Database Administrator AS
- Oracle Systems Administrator (Database Administrator Option) TC
- Oracle Professional Database Developer AS
- Oracle Software Engineering TC
- Internet Services Technology AS
- Website Designer Option TC
- Networking Services Technology AS
- Cisco CCNA TC
- Microsoft MCITP – TC
- Network Support Technician TC

**Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheet for details)**

- Information Technology BAS
- Supervision and Management BAS
- Technology Management BAS
## 10. Liberal Arts & Sciences

### AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Liberal Arts & Sciences

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

## 11. Mass Communication, Graphic Design & Multimedia

### AA to Baccalaureate Programs

BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:

- Art
- Graphic Design
- Journalism
- Mass communications
- Public Relations
- Public Relations & Organizational Communications
- Radio & Television Broadcasting
- Speech Pathology Audiology

See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.

### Career and Technical Education Programs including AS to Baccalaureate Programs

While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:

- Digital Media/Multimedia Technology AAS
- Digital Media/Multimedia Production TC
- Digital Media Web Production TC
- Multimedia Web Development ATC
- Graphic Design Technology AS
- Graphic Design Production TC
- Graphic Design Support TC
- Internet Services Technology AS
- Website Designer Option TC

### Baccalaureate Programs (Requires an Associates in Arts Degree for Admission – see Program Sheets for details)

- Middle Grades General Science BSED
- Middle Grades Mathematics BSED
- Secondary Biology BSED
- Secondary Mathematics BSED
12. Math and Science

**AA to Baccalaureate Programs**

- BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:
  - Actuarial Science
  - Applied Math/Math Science
  - Astronomy
  - Biochemistry
  - Biological Sciences (Biology, Botany, Ecology, Entomology, Marine/Aquatic Biology, Zoology, etc.)
  - Chemistry
  - Environmental Science
  - Exercise Science
  - Forensic Science
  - Forest Resources and Conservation Geology
  - Horticulture Science
  - Mathematics
  - Natural Resources Parks & Recreation
  - Math Teacher Education
  - Physics
  - Science Teacher Education
  - Statistics

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.

**Career and Technical Education Programs including AS to Baccalaureate Programs**

- While Certificate and AAS degree programs prepare students for immediate employment, AS degree programs prepare students for employment as well as transfer to specific baccalaureate programs in the Florida College and the State University Systems. BC offers the following programs in this cluster:
  - Biomedical Engineering Technology AAS
  - Biomedical Engineering Technology ATC
  - Environmental Science Technology AS
  - Geographic Information Systems ATC

Science – See 12. Math and Science and/or 5. Engineering & Engineering Technology

13. Social and Behavioral Sciences

**AA to Baccalaureate Programs**

- BC offers the AA degree that transfers to the State University System with the complete 36 credit-hour baccalaureate General Education requirement. Elective courses can be selected to meet the lower division requirements of baccalaureate degrees in fields such as:
  - Anthropology
  - Economics
  - Geography
  - International Relations
  - Latin American Studies
  - Political Science
  - Psychology
  - Social Psychology
  - Social Sciences
  - Social Work
  - Sociology
  - Women’s Studies
  - History

See an Advisor and use BC’s Educational Planning tool to make the appropriate course selections.
### 14. Transportation

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
<th>Career and Technical Education Programs including AS to Baccalaureate Programs</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Aerospace Engineering</td>
<td>Automotive Technology, Dealer Specific (AS, AAS)</td>
</tr>
<tr>
<td>Transportation Management</td>
<td>Automotive Service Management Technology (AS, AAS)</td>
</tr>
<tr>
<td>Urban &amp; Regional Planning</td>
<td>Airport Operations Management, AS</td>
</tr>
<tr>
<td>See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.</td>
<td>Airport Management TC</td>
</tr>
<tr>
<td></td>
<td>Air Traffic Control AAS</td>
</tr>
<tr>
<td></td>
<td>Aviation Operations AS</td>
</tr>
<tr>
<td></td>
<td>Aviation Maintenance Management, AS, AAS</td>
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<tr>
<td></td>
<td>Aircraft Airframe Mechanics, PSAV</td>
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<td></td>
<td>Aircraft Powerplant Mechanics, PSAV</td>
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<td></td>
<td>Avionics PSAV</td>
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<tr>
<td></td>
<td>Professional Pilot Technology, AS</td>
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<tr>
<td></td>
<td>Global Trade and Logistics AS</td>
</tr>
<tr>
<td></td>
<td>Business Specialist: Logistics Specialist TC</td>
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<tr>
<td></td>
<td>Marine Engineering Management, AS</td>
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<td></td>
<td>Marine Technology Certificate</td>
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</tbody>
</table>

**Baccalaureate Programs (Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheets for details)**

Supervision and Management BAS

### 15. Visual and Performing Arts

<table>
<thead>
<tr>
<th>AA to Baccalaureate Programs</th>
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</tr>
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</tr>
<tr>
<td>Art (Graphic Design, History &amp; Appreciation, Teacher Education, Studio/Fine Arts, etc.)</td>
<td>Digital Media/Multimedia Technology AAS</td>
</tr>
<tr>
<td>Dance (Education, Performance, etc.)</td>
<td>Digital Media/Multimedia Production TC</td>
</tr>
<tr>
<td>Dramatic Arts/Theatre</td>
<td>Digital Media Web Production TC</td>
</tr>
<tr>
<td>Music (Composition, History &amp; Appreciation, Performance, Management &amp; Merchandising, etc.)</td>
<td>Multimedia Web Development ATC</td>
</tr>
<tr>
<td>See an Advisor and use BC's Educational Planning tool to make the appropriate course selections.</td>
<td>Graphic Design Technology AS</td>
</tr>
<tr>
<td></td>
<td>Graphic Design Production TC</td>
</tr>
<tr>
<td></td>
<td>Graphic Design Support TC</td>
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<tr>
<td></td>
<td>Internet Services Technology AS</td>
</tr>
<tr>
<td></td>
<td>Website Designer Option TC</td>
</tr>
</tbody>
</table>
### Baccalaureate Programs

#### Bachelors of Applied Science *(Requires an Associate's Degree or Dean's Approval for Admission – see Program Sheet for details)*
- Information Technology
- Supervision and Management
- Technology Management

#### Bachelors in Science, Education *(Requires an Associates in Arts Degree for Admission – see Program Sheets for details)*
- Exceptional Student Education
- Middle Grades General Science
- Middle Grades Mathematics
- Secondary Biology
- Secondary Mathematics

#### Bachelors in Science, Nursing *(Requires a Florida RN License for Admission – see Program Sheets for details)*
- RN to BSN Nursing
General Education at Broward College

Philosophy of General Education

General Education at Broward College is a core of common learning experiences that enables students to acquire and apply a broad foundation of integrated knowledge, skills, and behaviors. The core curriculum assures breadth that cannot be found in any specific discipline. In particular, literacy and communication skills, in all their forms, are reinforced throughout the students' program of study. Further, the program provides opportunities for students to apply their acquired knowledge and skills in solving increasingly complex problems. This prepares students to be independent, lifelong learners, assuming roles of responsibility in the global community.

Expected Educational Results

The College believes that a well-educated person is one who possesses the intellectual capabilities, skills and behaviors to:

- Read with critical comprehension
- Write clearly and coherently
- Demonstrate literacy as appropriate within a given discipline
- Apply problem solving skills or methods to make informed decisions in a variety of contexts**
- Differentiate between ethical and unethical behavior
- Demonstrate an understanding of the physical, biological, and social environments and how individual behaviors impact this complex system.
- Demonstrate an understanding of and appreciation for human diversities and commonalities
- Speak and listen effectively

Selection of General Education Courses

The College offers four different types of degrees, the Associate in Arts (AA), numerous Associate in Science (AS), the Associate in Applied Science (AAS) and several baccalaureate degrees (BAS, BSED, and BSN). Different degrees have different General Education requirements based upon:

- Florida Statutes (1001.02, 1007.23, 1007.25),
- State Board of Education Rules (6A-14.030 and 6A-10.024),
- Southern Association of Colleges and Schools – Commission on Colleges (SACSCOC) Core Requirement 2.7.3 & Comprehensive Standard 3.5.1, and
- Broward College’s Policy (6Hx2-4.22).

Broward College requires a total of 36 credits of General Education coursework in communication, mathematics, social/behavioral sciences, humanities, natural sciences and wellness for the AA and baccalaureate degree programs. For the AS and AAS degrees, Broward College requires 15 credits within the subject areas of communication, humanities, social/behavioral sciences and mathematics/natural sciences. These requirements are listed in following sections.

General Education Block Transfer Guarantee for AA Degree Students

Per State Board of Education Rule 6A-10.024, once a student has been certified by an institution on the official transcript as having completed satisfactorily its prescribed general education core curriculum, regardless of whether the associate degree is conferred, no other Florida public postsecondary institution to which he or she may transfer shall require any further such general education courses.
<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credits Required for AA and Baccalaureate</th>
<th>Credits Required for AS and AAS Degrees if a General Education Elective is a part of the program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENC 1101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ENC 1102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>ENC 1103</td>
<td>3</td>
<td>3</td>
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<tr>
<td>4</td>
<td>ENC 1104</td>
<td>3</td>
<td>3</td>
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<tr>
<td>5</td>
<td>ENC 1105</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Elective noted on Program sheet for AS/AAS programs

Total courses per Area

| Area 1 | 9 | 6 | 9 | 9 |
| Area 2 | 6 | 9 | 9 | 6 |
| Area 3 | 8 | 6 | 7 | 7 |
| Area 4 | 4 | 2 | 4 | 2 |
| Area 5 | 5 | 5 | 5 | 5 |
General Education Courses by Area

Area 1A Written Communications I
ENC 1101 Composition 3

Area 1B Written Communications II
ENC 1102 Composition 3
ENC 2210 Professional and Technical Writing 3

Area 1C Oral Communications
SPC 1024 Introduction to Speech Communication 3
SPC 1608 Introduction to Public Speaking 3

Area 2A Humanities – Literature
AML 2010 American Literature Colonial to 1900 3
AML 2020 American Literature Since 1900 3
AML 2600 African American Literature 3
AML 2631 Hispanic American Literature 3
CRW 1001 Creative Writing 3
CRW 1100 Fiction Writing 3
ENG 2101 Film as Literature 3
ENL 2012 British Literature I 3
ENL 2022 British Literature II 3
ENL 2330 Introduction to Shakespeare 3
LIT 2020 Introduction to the Short Story 3
LIT 2030 Great Ideas Poetry 3
LIT 2110 World Literature through the Renaissance 3
LIT 2120 World Literature Renaissance to the Present 3
LIT 2310 Literature of the Supernatural and Science Fiction 3

Area 2B Humanities – Foreign Languages
ASL 1140 American Sign Language I 4
ASL 1150 American Sign Language II 4
FRE 1120 Beginning French I 4
FRE 1121 Beginning French II 4
FRE 2220 Intermediate French I 4
GER 1120 Beginning German I 4
GER 1121 Beginning German II 4
GER 2220 Intermediate German I 4
HBR 1121 Beginning Hebrew I 4
HBR 2220 Intermediate Hebrew I 4
ITA 1120 Beginning Italian I 4
ITA 1121 Beginning Italian II 4
SPN 1120 Beginning Spanish I 4
SPN 1121 Beginning Spanish II 4
SPN 2220 Intermediate Spanish I 4
SPN 2201 Intermediate Spanish II 3

Area 2C Humanities – Art Appreciation
ARH 2000 Art Appreciation 3
ARH 2050 World Art: Prehistoric to Gothic 3
ARH 2051 World Art: Renaissance to Modern 3

Area 2D Humanities – Theatre Appreciation
THE 2000 Theatre Appreciation 3

Area 2E Humanities – Music Appreciation
MUH 2111 Music History and Literature 3
MUL 2010 Music Appreciation 3

Area 2E Humanities - Philosophy
PHI 1100 Introduction to Logic 3
PHI 2010 Introduction to Philosophy 3
PHI 2600 Introduction to Ethics 3

Area 2E Humanities - Religion
REL 2300 World Religions 3
REL 2000 Introduction to the Study of Religion 3

Area 3A Historical, Political and Global Perspectives
AMH 2010 History of the United States to 1865 3
AMH 2020 History of the United States since 1865 3
AMH 2035 United States 1945 to Present 3
AMH 2091 History of the African American 3
EUH 1001 Western Civilization I 3
EUH 1002 Western Civilization II 3
GEA 2000 World Geography 3
GEA 2030 Geography of the Eastern World 3
GEA 2040 Geography of the Western World 3
GEO 1000 Introduction to Geography 3
GEO 2370 Conservation of Natural Resources 3
GEO 2420 Introduction to Human and Cultural Geography 3
INR 2002 Introduction to International Relations 3
LAH 1004 History of the Two Americas I 3
LAH 1005 History of the Two Americas II 3
POS 2041 National Government 3
POS 2112 State and Local Government 3
WOH 2040 World in the Twentieth Century 3

Note:  W indicates courses that also count for the Writing Requirement in the AA and baccalaureate degrees.
I indicates courses that also count for the International/Intercultural Requirement in the AA and baccalaureate degrees.
C indicates this course requirement can be satisfied through appropriate test scores on the CLEP exam.
### Area 3B Social/Behavioral Sciences
- **ANT 2000** Introduction to Anthropology I, W 3
- **ANT2140** Introduction to Archaeology W 3
- **ANT 2211** Introduction to World Ethnology I, W 3
- **DEP 2004** Developmental Psychology C, W 3
- **ECO 2013** Principles of Economics I C, W 3
- **PSY 2012** General Psychology C 3
- **SYG 2000** Principles of General Sociology C, I, W 3
- **SYG 2010** Social Problems W 3
- **SYG 2340** Sociology of Human Sexuality W 3

### Area 4A Biological Sciences
- **BOT 2010** General Botany 3
- **BOT 2800** Ethnobotany 3
- **BSC 1004** Developmental Psychology C 3
- **BSC 1010** Introduction to Biology I* 3
- **BSC 1085** Anatomy & Physiology I* 3
- **ENY 1001** Insects, Man and Environment 3
- **EVR 1009** Environmental Science + 3
- **ZOO 2010** General Zoology 3

### Area 4B Physical Sciences
- **AST 1002** Horizons in Astronomy 3
- **AST 1003** Astronomy of the Solar System 3
- **AST 1004** Astronomy of Stars and Galaxies 3
- **CHM 1025** Introduction to Chemistry C 3
- **CHM 1032** Chemistry for Health Sciences* 3
- **CHM 1040** General Chemistry A* 3
- **CHM 1045** General Chemistry I* 3
- **CHM 1046** General Chemistry II* 3
- **ESC 1000** Earth Science 3
- **EVR 1009** Environmental Science + 3
- **GLY 1010** Physical Geology 3
- **GLY 1100** Historical Geology 3
- **OCE 1001** Introductory Oceanography 3
- **PHY 1001** Applied Physics 3
- **PHY 2048** General Physics with Calculus I* 4
- **PHY 2049** General Physics with Calculus II* 4
- **PHY 2053** General Physics I* 3
- **PHY 2054** General Physics II* 3
- **PSC 1121** Physical Sciences Survey 3

### Area 4C Science Labs
- **Area 4C Science Labs**
  - **Biological Science Labs**
    - **BOT 2010L** General Botany Lab 1
    - **BSC 1005L** General Biology Lab 1
    - **BSC 1010L** Introduction to Biology I Lab* 1
    - **BSC 1085L** Anatomy & Physiology I Lab* 1
    - **ZOO 2010L** General Zoology Lab 1
  - **Physical Sciences Labs**
    - **AST 1022L** Astronomy Laboratory 1
    - **CHM 1025L** Introduction to Chemistry Lab 1
    - **CHM 1032L** Chemistry for Health Sciences Lab* 1
    - **CHM 1045L** General Chemistry I Lab* 1
    - **ESC 1000L** Earth Science Lab 1
    - **GLY 1010L** Physical Geology Lab 1
    - **GLY 1100L** Historical Geology Lab 1
    - **OCE 1001L** Introductory Oceanography Lab 1
    - **PHY 1001L** Applied Physics Lab 1
    - **PHY 2048L** General Physics w/Calculus I Lab* 1
    - **PHY 2053L** General Physics I Lab* 1
    - **PSC 1121L** Physical Sciences Lab 1

### Area 4D Wellness
- **HLP 1081** Total Wellness 2
- **PEM 1116** Functional Wellness 2
- **PEM 1131** Weight Training 2
- **PEM 1141** Aerobic Wellness 2
- **PEN 1171** Aquatic Wellness 2

### Area 5 Mathematics
- **MAC 1105** College Algebra C 3
- **MAC 1114** Trigonometry 3
- **MAC 1140** Pre-Calculus Algebra C 3
- **MAC 1147** Pre-Calculus Algebra & Trigonometry C 5
- **MAC 2233** Business Calculus C 3
- **MGF 1106** Liberal Arts Mathematics I 3
- **MGF 1107** Liberal Arts Mathematics II C 3
- **STA 2023** Statistics 3

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**Note:**
- W indicates courses that also count for the Writing Requirement in the AA and baccalaureate degrees.
- I indicates courses that also count for the International/Intercultural Requirement in the AA and baccalaureate degrees.
- C indicates this course requirement can be satisfied through appropriate test scores on the CLEP exam.
- + EVR 1009 can be used as either a biological or a physical science (but not both).
- * These courses are designated for students majoring in science, science-related or health-related fields.
Academic Programs and Graduation Requirements

Associate in Arts (AA) Degree

Broward College offers the Associate in Arts degree with a wide variety of course options to enable students to seamlessly transfer to the state university system. More information regarding AA options may be obtained from the web site online at www.broward.edu/programs or from any Academic Advisor.

AA Mission Statement

The Associate in Arts degree provides courses of study equivalent to those offered to freshman and sophomore students in the lower division of Florida's state universities. Students are encouraged to meet with an academic advisor to construct their educational plans to include university prerequisite requirements for their major area of study. Students should also consult with an advisor at the university of their choice prior to making course selections to avoid taking excess credits and to determine additional university requirements. If students follow the State’s Common Prerequisite manual when selecting their coursework, the AA degree they receive from BC should meet the lower division requirements of the designated State university and allow them to be admitted at the junior-level. The AA degree includes 36 semester hours of General Education courses in addition to courses appropriate for the upper-division major selected by the student. The General Education requirements are within the subject areas of communications, mathematics, social sciences, humanities, and natural sciences. Apart from its transfer function, the degree provides students with the opportunity to gain competencies necessary to be participating and productive members of a democratic society.

Students are encouraged to contact the specific institution they wish to transfer regarding that institution’s unique requirements. Specific information concerning transfer to the following Florida state universities is available in any campus Counseling and Advisement Office.

<table>
<thead>
<tr>
<th>Institution</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMU</td>
<td>Florida A and M University</td>
</tr>
<tr>
<td>FAU</td>
<td>Florida Atlantic University</td>
</tr>
<tr>
<td>FGCU</td>
<td>Florida Gulf Coast University</td>
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<tr>
<td>FIU</td>
<td>Florida International University</td>
</tr>
<tr>
<td>FSU</td>
<td>Florida State University</td>
</tr>
<tr>
<td>NCF</td>
<td>New College of Florida</td>
</tr>
<tr>
<td>UCF</td>
<td>University of Central Florida</td>
</tr>
<tr>
<td>UF</td>
<td>University of Florida</td>
</tr>
<tr>
<td>UNF</td>
<td>University of North Florida</td>
</tr>
<tr>
<td>USF</td>
<td>University of South Florida</td>
</tr>
<tr>
<td>UWF</td>
<td>University of West Florida</td>
</tr>
</tbody>
</table>

AA Degree Graduation Requirements

- Complete 60 semester hours of college credit from the applicable catalog including:
  a) thirty-six college-level semester credit hours of general education courses in five subject areas: Communications, Mathematics, Social Science, Humanities, and Natural Sciences; and
  b) twenty-four college-level semester credit hours of electives, which should include required pre-requisites for the university major (“common prerequisites”).
- Complete prescribed College Preparatory and ESI Program courses, if required, with a grade of "C" or higher.
- Students must fulfill the computer literacy requirement within the first 15 credit hours of enrollment at BC by successfully completing the CGS1060C course or passing the basic student technology test.
- Complete Gordon Rule writing and mathematics requirements (State Board of Education Rule 6A-10.030).
- Complete BC's International/Intercultural requirement.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC including transfer credits in courses that comprise the AA degree.
- Fulfill all financial and other obligations to the College.
<table>
<thead>
<tr>
<th>Sample Course Selection for AA Degree-Seeking Students</th>
</tr>
</thead>
</table>

### Academic Programs and Graduation Requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>General Education Courses</th>
<th>Electives</th>
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<tbody>
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</table>

#### General Education Categories

**A. General Education Requirements**

- **Category A:** Three courses from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category B:** Two courses from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category C:** One course from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category D:** One course from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category E:** One course from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category F:** One course from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

- **Category G:** One course from the following categories:
  - Communications
  - Humanities & Fine Arts
  - Social & Behavioral Sciences
  - Biological/Physical Science

### Notes

1. Students majoring in science, science-related or health-related fields may take any combination of 7 credits from A, B, and C that includes a laboratory course and 2 credits from D (Wellness).
2. Elective courses should be selected based on the prerequisites detailed in the catalog. Students are encouraged to consult with an academic advisor to determine the appropriate course selection.

### Total Credits

- **Total General Education College Credits:** 36
- **Total AA Degree College Credits:** 60

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**Other**

- **Writing Requirement:**
  - Course ID: ENC1101, ENC1102, or ENC2210
  - College Writing Course

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**Program Requirements**

- **College Credits:**
  - 24 credits

---

**Electives**

- **College Credits:**
  - 24 credits

---

Other AA Graduation Requirements: met through eligible General Education courses or courses count toward Elective credits.
AA General Education Requirements

See the approved list of General Education courses offered at Broward College in this catalog.

Communications 9 Credits
Select three courses, one from each category Area 1A, Area 1B, and Area 1C.

Note:
- A grade of “C” or higher in courses from 1A and 1B must be achieved to satisfy this requirement (Gordon Rule).

Humanities/Fine Arts 6 Credits
Select two courses. Choose only one course from each category Area 2A, Area 2B, Area 2C, Area 2D, Area 2E, Area 2F, or Area 2G.

Social/Behavioral Sciences 6 Credits
Select one course from each category Area 3A and Area 3B.

Science/Wellness 9 Credits
Select four courses from each category Area 4A, Area 4B, Area 4C, and Area 4D.

Notes
- Students must satisfy college prep reading requirements through coursework or placement test scores prior to enrolling in credit level science courses.
- Students not majoring in science or health-related fields must take at least one course from each subcategory, one of which must be a laboratory course.
- Students majoring in science, science-related or health related fields may take any combination of seven credits as designated by the State Common Prerequisite Manual for their major, including one laboratory course (i.e. two physical or two biological science courses plus one lab course) to be counted towards their AA degree’s science General Education requirement. These students must see an Advisor to update their educational plan in order to graduate.
- No exemptions shall be permitted from the Wellness requirement (Area 4D) because of age, veteran status or medical reasons. Students with medical restrictions or physical limitations must provide appropriate documentation and shall participate on a modified basis.

Mathematics 6 Credits
Select two courses from Area 5.

Note:
- A grade of “C” or higher in these courses must be achieved to satisfy this requirement (Gordon Rule).

Total General Education (Areas 1-5) 36 Credits

Programmatic Electives 24 Credits
When choosing electives, students should give careful attention to their major field of study and to the requirements of the institution to which they plan to transfer. Certain technical/occupational courses can be used to satisfy this area requirement. Electives may include any combination of college-level courses that are identified for the AA degree. These include courses identified as “common prerequisites” as well as General Education courses. Excluded are college preparatory courses and courses designed especially for technical education curricula. Please consult with an Academic Advisor regarding your course selections.

Writing Requirement
In keeping with the Gordon Rule (State Board of Education Rule 6A-10.030), all students must take one course from General Education Area 1A and one course from Area 1B, which satisfies one component of the requirement. The remaining component can be satisfied by taking two (2) other courses designated as writing courses in the term schedule. In each of these courses, a variety of assignments relevant to the content of the course may be made. Students must achieve a grade of "C" or higher in the courses to satisfy the writing requirement. Students must be eligible for ENC1101 to enroll in designated writing-credit courses. A complete list of courses that count towards the Writing Requirement are listed under the heading of the Gordon Rule.

Some students who were enrolled in an accredited college or university prior to January 1, 1983, may be exempt from the Writing Requirement. Please see an Academic Advisor for assistance.
International/Intercultural Requirement

3 Credits

Of the 36-credit General Education requirement, three credits must be earned in an approved International/Intercultural course. Only the following approved courses from the General Education offerings may be used to satisfy this requirement.

Foreign Language Courses
- AMH 2091 History of the African American G, W  3
- AML 2600 African American Literature G, W  3
- AML 2631 Hispanic American Literature G, W  3
- ANT 2000 Introduction to Anthropology G, W  3
- ANT 2211 Introduction to World Ethnology Peoples of the World G, W  3

- ARH 2000 Art Appreciation G  3
- ARH 2050 Art History I G, W  3
- ARH 2051 Art History II G, W  3
- ENL 2012 British Literature, C, G, W  3
- ENL 2022 British Literature C, G, W  3
- EUH 1000 Western Civilization I C, G, W  3
- EUH 1001 Western Civilization II C, G, W  3
- GEO 2420 Introduction to Human Geography G  3
- GEO 2370 Conservation of Natural Resources G, W  3
- GEO 2420 Introduction to Human and Cultural Geography G, W  3

- INR 2002 Introduction to International Relations G, W  3
- LAH 1004 History of the Two Americas I G  3
- LAH 1005 History of the Two Americas II G  3
- LIT 2020 Introduction to the Short Story G, W  3
- LIT 2110 World Literature Through the Renaissance G, W  3
- LIT 2120 World Literature Renaissance to Present G, W  3
- MUH 2111 Music History and Literature G, W  3
- REL 2300 World Religions G, W  3
- SYG 2000 Principles of Sociology G, W  3
- WOH 2040 World in the 20th Century G, W  3

The Gordon Rule

State Board of Education Rule 6A-10.030, known as the Gordon Rule, requires that students graduating with an Associate in Arts Degree meet the following provisions in the areas of Writing and Mathematics.

All students seeking an AA or B.A. degree must meet these requirements by the end of the sophomore year.

Writing

In order to comply with the Gordon Rule, all students are required to demonstrate college-level writing skills in their two (2) required composition courses (one from Area 1A and one from Area 1B) and any other two (2) courses designated (listed below) as carrying writing credit. In all writing-credit courses, students should expect essay tests, in-class writing, and/or formal written presentation of material relevant to the content.

- AMH 2010 C, G
- ENL 2022 C, G, I
- PHI 2010 G
- AMH 2020 C, G
- ENL 2330 G
- PHI 2600 G
- AMH 2035 G
- EUH 1000 C, G, I
- PHI 2930
- AMH 2091 G, I
- EUH 1001 C, G, I
- PLA 1201
- AML 2010 C, G
- EUH 2032 G, I
- PLA 1303
- AML 2020 C, G
- EUH 2052 PLA 1435
- AML 2600 G, I
- FIN 1100 PLA 1600
- AML 2631 G, I
- GEO 2200 PLA 1610
- AML 2010 G
- GEO 2370 G, I
- PLA 1800
- AML 2140 G
- GEO 2420 G, I
- PLA 2114
- AML 2211 G, I
- INR 2002 G, I
- PLA 2466
- ANT 2381
- JST 1500 PLA 2940
- ANT 2905
- JST 1700 POS 2041 C, G
- ARH 2050
- JST 2815 POS 2601
- ARH 2051 G, I
- LIT 1171 PSY 2043
- CRW 1001 G
- LIT 1172 PSY 2905
- CRW 1100 G
- LIT 1370 PSY 2930
- CRW 1300
- LIT 2020 G, I
- REL 1210
- CRW 2002
- LIT 2030 G
- REL 1240
- CRW 2003
- LIT 2110 G, I
- REL 2000 G
- CRW 2005
- LIT 2120 G, I
- REL 2300 G, I
- DEP 2002
- LIT 2310 G
- SYG 2000 C, G, I
- DEP 2004 C, G
- LIT 2341 G
- SYG 2010 G
- ECO 2013 C, G
- LIT 2935 G
- SYG 2340 G
- ECO 2023
- LIT 2953 G
- SYG 2421
- ECO 2220
- MMC 1000 SYG 2441
- EDF 1005
- MUH 2019 THE 2300
- EDF 2085
- MUH 2111 G, I
- TPP 2300 C
- EME 2040
- MUH 2112 TPP 2701 C
- ENG 2101 G
- OST 2949 WOH 2040 G, I
- ENL 2012 C, G, I
- PHI 1100 G

Note:  
G indicates courses that also count for the General Education Requirement in the AA and baccalaureate degrees.
W indicates courses that also count for the Writing Requirement in the AA and baccalaureate degrees.
1 indicates courses that also count for the International/Intercultural Requirement in the AA and baccalaureate degrees.
C indicates this course requirement can be satisfied through appropriate test scores on the CLEP exam.
Mathematics
All students must complete six credit hours at the college algebra level or higher. For most students, the requirement is met by taking any two of the following courses: MAC1105, MGF1106, MGF1107, STA2023. In all Mathematics courses, a grade of “C” or higher is required to meet the AA Degree graduation requirements.

Florida Transfer Articulation
The Florida University System Associate in Arts graduates are afforded the following rights when transferring to a State university under the statewide transfer articulation (State Board of Education Rule 6A-10.024).
1. Admission to one of the State Universities, except to limited access programs that have additional admission requirements.
2. Acceptance of at least 60 credit hours by the State universities toward the baccalaureate degree.
3. Adherence to university requirements and policies based on the catalog in effect at the time the student first entered a community college, provided the student maintains continuous enrollment.
4. Transfer of equivalent courses under the Statewide Course Numbering System.
5. Acceptance by the State Universities of credit earned in accelerated programs:
   - Advanced International Certificate of Education Program (AICE A-Levels/AS-L evels),
   - Advanced Placement (AP),
   - College-Level Examination Program (CLEP),
   - DANTES Subject Standardized Tests (DSST),
   - Dual Enrollment/Early Admission,
   - Excelsior (formerly known as Regents College Exams or PEP), and
   - International Baccalaureate (IB).
6. Once a student has been certified by an institution on the official transcript as having completed satisfactorily its prescribed general education core curriculum, regardless of whether the associate degree is conferred, no other public postsecondary institution to which he or she may transfer in Florida shall require any further such general education courses.
7. Equal opportunity with native university students to enter limited access programs.

Associate in Science Degree
Associate in Science Degree Programs
Broward College offers a wide variety of concentrations within the AS degree. Visit the website online at www.broward.edu/ or see an Academic Advisor for assistance.

AS Degree Mission Statement
The Associate in Science degree is a career education and transfer degree for specific programs. It is a 60+ credit hour degree intended to prepare students for immediate employment in a specific occupational area and/or for transfer into the State University System. The degree requires completion of at least 15 semester hours of transferable General Education courses that meet the criteria of the Commission on Colleges of the Southern Association of Colleges and Schools, along with technical courses, which may or may not transfer. The General Education courses will transfer and may apply toward the state university’s General Education requirement. In some areas of study, statewide program-specific articulation agreements have been developed ensuring the transfer of the AS degree. The student is advised to see an Academic Advisor for a list of these programs.

AS Degree Graduation Requirements
- Complete the minimum number of required college-level semester credit hours as established for your specific program in Florida State Board of Education Rules.
- Complete the program of study as set forth in the applicable College catalog.
- Complete a minimum of fifteen college-level semester credit hours of the prescribed program’s transferable General Education courses that include the following: ENC 1101, three credits in Social/Behavioral Sciences, three credits in Humanities/Fine Arts, three credits in Natural Sciences/Mathematics, and three credits designated by the program.
- Complete the oral communication requirement as specified in the prescribed program.
- Students must fulfill the computer literacy requirement within the first 15 credit hours of
enrollment at BC by successfully completing the CGS1060C course or passing the basic student technology test.

- Complete the prescribed college preparatory and English as a Second Language Program courses, if required, with a grade of "C" or higher.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Health science programs require that 75% of health science coursework is completed at Broward College. Refer to Health Science programs for more information.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AS degree.
- Fulfill all financial and other obligations to the College.

AS General Education Requirements
For AS programs that provide students with an elective option in Humanities/Fine Arts, Social/Behavioral Science, or Math/Natural Science, student should select a course from the approved list of General Education courses offered at Broward College in this catalog.

Communications 3 Credits
ENC 1101 Composition I

Humanities/Fine Arts 3 Credits
For programs that require the “Humanities/Fine Arts Elective” option, a course must be selected from the approved list for Humanities/Fine Arts General Education Areas 2A, 2C, 2D, 2F, 2G or 2H. Note that foreign language courses cannot be used for the Humanities/Fine Arts General Education AS degree requirement.

Social/Behavioral Sciences 3 Credits
For programs that require the “Social/Behavioral Sciences Elective” option, a course must be selected from the approved list for Social/Behavioral Sciences General Education Areas 3A or 3B.

Mathematics/Natural Science 3 Credits
For programs that require the “Mathematics and/or Natural Science” option, a course must be selected from the approved list for Mathematics or Natural Science General Education Areas 4A, 4B or 5. Note that wellness courses or science labs not taken in conjunction with science lecture courses do not count toward the AS program’s general education requirements.

Program-Designated Courses 3 Credits
AS degree programs include a General Education course from Areas 1C, 2 (A-G), 3 (A-B), 4(A-B), or 5.

TOTAL (Areas 1-5) 15 Credits

Associate in Applied Science Degree

Associate in Applied Science Degree Programs
Broward College offers a variety of concentrations within the AAS degree. Please visit our web site at www.broward.edu/programs or see an Academic Advisor for assistance.

AAS Mission Statement
The Associate in Applied Science degree is a college-level career-technical degree. The AAS is a 60+ college credit hour degree consisting of both General Education and technical courses. Graduates are prepared for immediate entry into the workforce and have the communications, problem solving, and academic skills necessary to successfully compete in the job market and advance in the workplace. The AAS provides the same career preparation as the AS but is not designed as a college transfer program. The degree may transfer to some universities under special articulation agreements between the College and those universities.

AAS Degree Graduation Requirements
- Complete the minimum number of required college-level semester credit hours as established for the specific program in Florida State Board of Education Rules.
- Complete the program of study as set forth in the applicable College catalog.
- Complete a minimum of fifteen college-level semester credit hours of the prescribed program's General Education courses that include the following: ENC 1101, three credits in Social/Behavioral Sciences, three credits in Humanities/Fine Arts, three credits in Natural...
Sciences/Mathematics, and three credits designated by the program.

- Complete the oral communication competency requirement as specified in the prescribed program.
- Students must fulfill the computer literacy requirement within the first 15 credit hours of enrollment at BC by successfully completing the CGS1060C course or passing the basic student technology test.
- Complete the prescribed College Preparatory and English as A Second Language Program courses, if required, with a grade of "C" or higher.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the AAS degree.
- Fulfill all financial and other obligations to the College.

AAS General Education Requirements

For AAS programs that provide students with an elective option in Humanities/Fine Arts, Social/Behavioral Science, or Math/Natural Science, student should select a course from the approved list of General Education courses offered at Broward College in this catalog.

Communications 3 Credits
ENC 1101 Composition I

Humanities/Fine Arts 3 Credits
For programs that require the “Humanities/Fine Arts Elective” option, a course must be selected from the approved list for Humanities/Fine Arts General Education Areas 2A, 2C, 2D, 2E, 2F or 2G. Note that foreign language courses cannot be used for the Humanities/Fine Arts General Education AS degree requirement.

Social/Behavioral Sciences 3 Credits
For programs that require the “Social/Behavioral Sciences Elective” option, a course must be selected from the approved list for Social/Behavioral Sciences General Education Areas 3A or 3B.

Mathematics/Natural Science 3 Credits
For programs that require the “Mathematics and/or Natural Science” option, a course must be selected from the approved list for Mathematics or Natural Science General Education Areas 4A, 4B, 5 or any of the following math courses:
- MAT 1033 Intermediate Algebra
- MTB 1310 Applied Mathematics
- MTB 1321 Technical Mathematics I
- MTB 1322 Technical Mathematics II
- MTB 1325 Engineering Technology Mathematics I
- MTB 1326 Engineering Technology Mathematics II

Note that wellness courses or science labs not taken in conjunction with science lecture courses do not count toward the AAS program’s general education requirements.

Program-Designated Courses 3 Credits
AS degree programs include a General Education course from Areas 1C, 2 (A-G), 3 (A-B), 4(A-B), or 5.

TOTAL (Areas 1-5) 15 Credits

Certificate Programs

BC offers a variety of concentrations in the several certificate programs. Please visit our web site at www.broward.edu/programs or see an Academic Advisor for assistance.

Mission Statement

A certificate is awarded upon satisfactory completion of a prescribed program of courses designed to prepare students for initial entry into an occupation or for advancement within their current occupations. Certificate programs provide students with the opportunity to develop the technical competencies necessary to participate as-productive members of the business, professional, governmental, or industrial life of the community.

Technical Certificate

A Technical Certificate is a program of study of less than sixty credits of college-level technical courses that prepares students for immediate employment in a specific occupational field. It generally does not require the completion of General Education courses. The Technical Certificate may be part of
an Associate in Science or an Associate in Applied Science degree, thus permitting the student to receive credit for the certificate courses.

Technical Certificate Requirements
- Complete the minimum number of required college-level semester credit hours as established for the specific program in Florida State Board of Education Rules.
- Complete the program of study as set forth in the applicable College catalog.
- Complete the prescribed college preparatory and English as a Second Language Program courses, if required, with a grade of "C" or higher.
- Complete 25% of the prescribed college-level semester credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Technical Certificate.
- Complete the oral communication competency requirement as specified in the prescribed program.
- Students must fulfill the computer literacy requirement within the first 15 credit hours of enrollment at BC by successfully completing the CGS1060C course or passing the basic student technology test.
- Fulfill all financial and other obligations to the College.

Vocational Certificate
A Vocational Certificate is a program of study, usually one year or less, consisting of a prescribed number of vocational credits (non-college-level credits). One vocational credit is equal to 30 contact hours of classroom instruction. The program focuses on providing students with the specific skills for immediate job entry. The Vocational Certificate is awarded upon completion of all vocational program courses and demonstration of attainment of predetermined and specified performance requirements in reading and mathematics as defined by Florida State Board of Education Rules.

Vocational Certificate Requirements
- Complete the minimum number of required vocational clock/credit hours as established for the specific program in Florida State Board of Education Rules.
- Complete the program of study as set forth in the applicable College catalog.
- Achieve appropriate minimum basic skills grade levels established for the program on the Test of Adult Basic Education (TABE) or other tests designated by State Rules 6A-6.014 and 6A-10.040.
- Students pursuing a vocational certificate shall complete an entry-level basic skills examination within the first six (6) weeks after admission into the program.
- Students pursuing a vocational certificate who have an AA degree or who have met the minimum cut scores on any test listed in the above-mentioned rules, may be exempt from the test requirement.
- Complete 25% of the prescribed vocational clock/credit hours at Broward College.
- Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Vocational Certificate. (For certificate programs with only satisfactory-unsatisfactory grades, earn a satisfactory grade in all courses.)
- Fulfill all financial and other obligations to the College.

Applied Technology Diploma
The Applied Technology Diploma (ATD) is a course of study that is part of an Associate in Science or an Associate in Applied Science degree and that leads to employment in a specific occupation. The ATD may consist of either vocational credit or college-level semester credits and is approximately 50% of the technical component of the AS or AAS degree. Per State Board of Education Rule 6A-10.024, transfer of ATD coursework to an associate degree program is guaranteed for a period of three years following the date of the award of the ATD, based upon AS or AAS degree articulation agreements.

Applied Technology Diploma Requirements
- Complete the minimum number of required college-level semester credit hours as established for the specific program in Florida State Board of Education Rules.
- Complete the program of study as set forth in the applicable College catalog.
• Complete the prescribed college preparatory and English as a Second Language Program courses, if required, with a grade of “C” or higher.
• Complete 25% of the prescribed college-level semester credit hours at Broward College.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Applied Technical Certificate.
• Fulfill all financial and other obligations to the College.
• Students are required to meet oral and computer competency requirements as specified in their particular certificate program of study.

Advanced Technical Certificate
The Advanced Technical Certificate (ATC) is a program of study consisting of at least nine credit hours, but less than forty-five credit hours, of college-level courses. The ATC is awarded to students who have already received an Associate in Science or Associate in Applied Science, or related undergraduate degree, and who are seeking an advanced specialized program of study to supplement their degree.

Advanced Technical Certificate Requirements
• Complete the program of study as set forth in the applicable College catalog.
• Complete 25% of the prescribed college-level semester credit hours at Broward College.
• Earn a cumulative degree grade point average of 2.0 or higher at BC, including transfer credits, in courses that comprise the Advanced Technical Certificate.
• Fulfill all financial and other obligations to the College.
Bachelor Degrees

Bachelor of Applied Science
- Supervision and Management
- Information Technology
- Technology Management

Bachelor of Science in Teacher Education
- Exceptional Student Education
- Middle Grades Science
- Secondary Biology
- Middle Grades Mathematics
- Secondary Mathematics

Bachelor of Science in Nursing
- RN to BSN
BACHELOR'S DEGREES

In Florida, students can take upper-level courses in over 500 programs located on college campuses. These programs enable students to remain on a college campus while receiving the upper-level instruction they need to complete a bachelor's degree.

There are two ways to get a bachelor's degree in Florida:

1. Bachelor's Degrees Offered by Four-Year Colleges & Universities

Associate degree graduates can earn bachelor's degrees at public or private four-year postsecondary institutions or at Florida State Colleges through 2+2 partnerships between the college and other higher education institutions.

Bachelor's Degrees Awarded by a Florida College

Broward College was granted authorization from the Florida Legislature in 2007 to offer bachelor's degrees that meet local and regional workforce needs and demand (section 1007.33, F.S). In January 2009, Broward College offered its first bachelor degree program in Teacher Education.

Bachelor's Degrees Awarded at Broward College

Students may be eligible to apply for admission to one of the following bachelor degree programs upon completion of an AA or an AS degree or 60 applicable college-level credits.

- BS = Bachelor of Science
  - Nursing - RN/BSN
  - Teacher Education

- BAS = Bachelor of Applied Science
  - Information Technology
  - Supervision and Management
  - Technology Management

Financial Aid

Federal financial aid is available for students who qualify and meet the following criteria:
- Achieve junior status — earn 60 college-level credits in coursework applicable toward an Associate’s degree
- Acceptance into a degree-seeking program in good academic standing
- Remaining eligibility — students cannot have used all their Pell eligibility while earning lower division coursework and cannot have exceeded student loan aggregate limits.

Students should meet with a Financial Aid advisor so that they can maximize their aid while attending college. State and scholarship aid (merit and need-based) is available based on qualifications.
BACHELOR OF APPLIED SCIENCE
Supervision and Management Program Code T 100

The Bachelor of Applied Science (BAS) is designed as a learner-centered degree program that provides specific program learning outcomes. Students, who successfully complete the Supervision and Management degree program, will gain technical hands-on skills through case studies and a capstone project, which will include analysis and problem solving through simulations and similar activities. This program will focus on current and emerging issues in business and management, such as financial markets, international trade, human resources, and will focus on developing comprehensive solutions to real-world problems associated with current management and organizational leadership challenges. Students will acquire knowledge related to the major concepts, principles, and techniques associated with leading cultural diversity in the global marketplace. General program outcomes for the Supervision and Management degree are comprised of specific learning objectives embedded into each of the courses.

Admission Requirements
The Bachelor of Applied Science is an open access program designed for the adult learner who has earned a two year technical degree and wishes to advance professionally. General admission to Broward College is required, and students will submit a supplemental application to the program. Applicants for the BAS program should have completed a minimum of 15 semester hours of general education requirements as part of their AS or AAS degree. The remaining general education semester hours (totaling 36) will be completed during the Bachelor of Applied Science degree program. Students will meet all of the State of Florida Bachelor of Applied Science general education requirements to be awarded the Bachelor of Applied Science (BAS) degree in Supervision and Management. Students with an Associate in Arts degree (AA) or 60 college credits may be admitted to the program upon recommendation of the Dean Bachelor of Applied Science, and Dean for Student Affairs.

Applicants are required to have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. Applicants must be in good academic standing at the last institution they attended. Broward College will automatically access the transcripts of previous or current students applying to the BAS program. As part of the admission process students are required to complete an educational plan; please access the website for more specific procedural information regarding the assistance that will be provided through a personal advisor or counselor in developing the student’s educational success plan http://www.broward.edu/bas .

General admission to Broward College does not constitute admission to the BAS Program; a supplemental application is also required. The general admission, supplemental, and reentry applications are available on the Broward College website; please use the following links to access these applications: http://www.broward.edu, http://www.broward.edu/bas, http://www.broward.edu/suserv/forms/reg-106.pdf.

- Students currently attending Broward College who wish to apply for the BAS program are required to complete the supplemental program application
- Graduates or returning Broward College students who wish to apply for the BAS program are required to complete the re-entry application and the supplemental program application
- New students to Broward College must complete the Broward College admissions application, and complete the supplemental application for the BAS program
- International students must first be admitted into Broward College. They are also required to complete the BAS program supplemental application. Please refer to the international admission requirements listed in the online Broward College catalog at www.broward.edu.
- Transfer students must submit a general admission application and complete the supplemental application for the BAS program

Graduation Requirements
The Bachelor of Applied Science degree will be awarded to students who meet the following requirements:

- A minimum of 120 semester credit hours in the prescribed coursework is required for the Bachelor of Applied Science degree. Coursework is comprised of both lower division (AS, AAS, AA) and upper division (BAS) as specified by the program sheet.
- Successful completion of the Capstone Project.
- Students must maintain an overall GPA of 2.0 to meet their graduation requirements.
- Complete eight credits in one foreign language or American Sign Language students who have completed two years of high school foreign language in one language are considered to have met the requirement. Students who have earned an Associate in Arts degree from a Florida Community College or State University System (SUS) institution before the Fall term of 1989, or who have maintained continuous enrollment in a Florida community college or SUS institution before the Fall term, 1989, are exempt from the requirement.
- Be recommended for graduation by the faculty of the student’s major field department.

Continued on next page
BACHELOR OF APPLIED SCIENCE PROGRAMS
Supervision and Management – Program Code T100

Program Description:
The Bachelor of Applied Science Degree in Supervision and Management is designed to provide individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful managers and leaders within public, private, and non-profit organizations. The curriculum offers a learner-centered practical approach to understanding supervision and management.

### BAS SUPERVISION AND MANAGEMENT DEGREE COMPONENTS

<table>
<thead>
<tr>
<th>Earned Associate in Science or Associate in Applied Science Degree</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Requirements Credits: AS or AAS degree holders will have completed a minimum of 15 of the 36 required general education hours as a part of their AS or A.A.S. degree</td>
<td>36</td>
</tr>
</tbody>
</table>

**LOWER DIVISION COURSEWORK** from AS or AAS in semester credit hours

<table>
<thead>
<tr>
<th>Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.</th>
</tr>
</thead>
</table>

| UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours | 38 |
| TOTAL | 120 |

**NOTE:** Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for BAS Programs and the Dean for Student Affairs.

### UPPER DIVISION PROFESSIONAL COURSEWORK

(Sample Course Sequence)

**First Semester Junior - Term 1**
- MAN 3240 Applied Organizational Behavior 3
- GEB 3213 Business Writing 3
- MAN 3303 Management and Leadership 3
- MAC 1105 College Algebra 3

**Total term credit hours** 12

**Second Semester Junior - Term 2**
- MAN 3162 Customer Relations for Managers 3
- MAN 3310 Human Resource Management 3
- BUL 3130 Business Law and Ethics 3
- Humanities/Fine Arts 3
- Science lab 1

**Total term credit hours** 13

**Third Semester Junior - Term 3**
- MAN 3930 Seminar in Business and Management 1*
- HLP 1081 Total Wellness 2

**Total term credit hours** 6

**First Semester Senior - Term 1**
- MAN 3930 Seminar in Business and Magt. 1*
- MAN 4120 Leadership Challenges and Supervision 3
- FIN 4460 Financial Statement Analysis 3
- STA 2023 Statistics 3
- SPC 1608 Introduction to Public Speaking 3

**Total term credit hours** 13

**Second Semester Senior - Term 2**
- MAN 4102 Managing Cultural Diversity 3
- MAN 4504 Operations Management 3
- MAN 4702 Strategic Management and Policy 3**
- MAN 4900 Capstone Project 3**

**Total term credit hours** 12

**Note:**
General Education requirements will vary based on degree.

*MAN 3930: Two semester credits required
**MAN 4702 and MAN 4900: Must be taken in the final semester
The Bachelor of Applied Science (BAS) is designed as a learner-centered degree program that provides specific program learning outcomes. Students who successfully complete the Technology Management degree program will gain the necessary skills and knowledge to become successful technology managers and leaders within public, private, and non-profit organizations. This program will focus on developing comprehensive solutions to real-world problems associated with current technology management challenges. Students will acquire knowledge related to the major concepts, principles, and techniques associated with management of technologies for the global market place. General program outcomes for the Technology Management degree are comprised of specific learning objectives embedded into each of the courses.

Related Programs
Supervision and Management Program Code T 100
Information Technology Program Code T 300

Admission Requirements
The Bachelor of Applied Science is an open-access program designed for the adult learner who has earned a two year technical degree and wishes to advance professionally. General admission to Broward College is required, and students will submit a supplemental application to the program. Applicants should have completed a minimum of 15 semester hours of general education requirements as part of their AS or AAS degree. The remaining general education semester hours (totaling 36) will be completed during the Bachelor of Applied Science degree program. Students will meet all of the State of Florida Bachelor of Applied Science general education requirements to be awarded the Bachelor of Applied Science (BAS) degree in Technology Management. Students with an Associate in Arts degree (AA) or 60 college credits may be admitted to the program upon recommendation of the Dean for Business, Technology, and Management and Dean for Student Affairs.

Applicants will have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. They must be in good academic standing at the last institution they attended. Broward College will automatically access the transcripts of previous or current students applying to the BAS program. As part of the admission process students are required to complete an educational plan. Applicants should access the website for more specific procedural information regarding assistance that will be provided through a personal advisor or counselor in developing the student’s educational success plan (http://www.broward.edu/bas).

The general admission, supplemental, and reentry applications are available on the Broward College website; please use the following links to access these applications: http://www.broward.edu .

Graduation Requirements
The Bachelor of Applied Science degree will be awarded to students who meet the following requirements:

- A minimum of 120 semester credit hours in the prescribed coursework is required for the Bachelor of Applied Science degree. Coursework is comprised of both lower division (AS, AAS, AA) and upper division (BAS) as specified by the program sheet.
- Successful completion of the Capstone Project.
- Students must maintain an overall GPA of 2.0 to meet their graduation requirements.
- Complete eight credits in one foreign language or American Sign Language students who have completed two years of high school foreign language in one language are considered to have met the requirement. Students who have earned an Associate in Arts degree from a Florida Community College or State University System (SUS) institution before the Fall term of 1989, or who have maintained continuous enrollment in a Florida community college or SUS institution before the Fall term, 1989, are exempt from the requirement.
- Be recommended for graduation by the faculty of the student’s major field department.

See next page for more information.
BACHELOR OF APPLIED SCIENCE PROGRAMS
Technology Management Program Code T 200

Program Description
The Bachelor of Applied Science Degree in Technology Management provides individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful Technology Managers and leaders within public, private, and non-profit organizations. The curriculum offers a learner-centered and practical approach to understanding Technology Management.

BAS TECHNOLOGY MANAGEMENT DEGREE COMPONENTS

| Earned Associate in Science or Associate in Applied Science Degree |  |
| General Education Core Requirements Credits: AS or AAS degree holders will have completed a minimum of 15 of the 36 required general education hours as a part of their AS or A. A. S. degree | 36 |
| LOWER DIVISION COURSEWORK FROM AS or AAS in semester credit hours | 45 |
| Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level. |  |
| UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours | 39 |
| TOTAL | 120 |
| NOTE: Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for BAS Programs and the Dean for Student Affairs. |  |

UPPER DIVISION PROFESSIONAL COURSEWORK
(Sample Course Sequence)

**First Semester Junior - Term 1**
- MAN 3240: Applied Organizational Behavior 3
- MAN 3303: Management and Leadership 3
- ISM 3432: Applied Quality Assurance Methodology 3
- STA 2023: Statistics 3

**Total term credit hours**: 12

**Second Semester Junior - Term 2**
- MAN 3310: Human Resource Management 3
- BUL 3130: Business Law and Ethics 3
- ISM 3013: Introduction to Information Systems 3
- General Education 3
- General Education (e.g. science lab) 1

**Total term credit hours**: 13

**Third Semester Junior - Term 3**
- ISM 3320: Information Systems Control 3
- General Education 3
- General Education (e.g. wellness) 2

**Total term credit hours**: 8

**First Semester Senior - Term 1**
- FIN 4460: Financial Statement Analysis 3
- MAN 4570: Procurement Management 3
- ISM 4314: Applied Project Management 3
- General Education 3

**Total term credit hours**: 12

**Second Semester Senior - Term 2**
- MAN 4504: Operations Management 3
- ISM 4382: Global Information Systems 3
- MAN 4900: Capstone Project 3
- General Education 3

**Total term credit hours**: 12

Note the sequence for the following courses:
ISM 3320; ISM 3013; ISM 4382, ISM 3320
MAN 4900: Must be taken in final semester
It is strongly recommended that students take CIS 1513C before ISM 4314.

Notes: General Education requirements will vary based on existing AS or AAS degree.
Students interested in this program, must see an academic advisor to determine course sequence.
The Bachelor of Applied Science (BAS) is designed as a hands-on student-centered degree program utilizing and applied approach to learning. Students who successfully complete the Information Technology degree program will have the skills and knowledge required to become successful information technologists and leaders in areas such as database administration, network systems administration, computer software engineering, etc. This program will focus on current and emerging principles, tools and methodologies in information technology, and develop comprehensive solutions to real-world problems associated with current information technology challenges. General program outcomes for this degree are comprised of specific learning objectives embedded into each course.

**Related Programs**
Supervision and Management Program Code T 100
Technology Management Program Code T 200

**Admission Requirements**
The Bachelor of Applied Science is an open-access program designed for the adult learner who has earned a two-year technical degree and wishes to advance professionally. General admission to Broward College is required. Students will also submit a BAS program supplemental application. Applicants should have completed a minimum of 15 semester hours of general education requirements as part of their AS or AAS degree. The remaining general education semester hours (to complete a total of 36) will be completed during the Bachelor of Applied Science degree program. Students will meet all of the State of Florida Bachelor of Applied Science general education requirements to be awarded the Bachelor of Applied Science (BAS) degree in Information Technology. Students with an Associate in Arts degree (AA) or 60 college credits may be admitted to the program upon recommendation of the Dean for Business, Technology, and Management and Dean for Student Affairs. Applicants will have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. They must be in good academic standing at the last institution they attended. Students will submit official transcripts from all post-secondary institutions attended. Broward College will automatically access the transcripts of previous or current students applying to the BAS program. As part of the admission process students are required to complete an educational plan. Applicants should access the website for more specific procedural information regarding assistance that will be provided through a personal advisor or counselor in developing the student’s educational success plan (http://www.broward.edu/bas ).

The general admission, supplemental, and reentry applications are available on the Broward College website; please use the following links to access these applications:
http://www.broward.edu ,
http://www.broward.edu/bas ,

- Students currently attending Broward College who wish to apply for the BAS program are required to complete the BAS program supplemental application
- Graduates or returning Broward College students who wish to apply for the BAS program are required to complete the re-entry application and the BAS program supplemental application
- New students to Broward College must complete the Broward College admissions application, and complete the BAS program supplemental application
- International students must first be admitted into Broward College. They are also required to complete the BAS program supplemental application. Please refer to the international admission requirements listed in the online Broward College catalog at www.broward.edu
- Transfer students must submit a general admission application and complete the BAS program supplemental application

**Graduation Requirements**
The Bachelor of Applied Science degree will be awarded to students who meet the following requirements:

- A minimum of 120 semester credit hours in the prescribed coursework is required for the Bachelor of Applied Science degree. Coursework is comprised of both lower division (AS, AAS, AA) and upper division (BAS) as specified by the program sheet.

- Successful completion of the Capstone Project.

- Students must maintain an overall GPA of 2.0 to meet their graduation requirements.

- Complete eight credits in one foreign language or American Sign Language students who have completed two years of high school foreign language in one language are considered to have met the requirement. Students who have earned an Associate in Arts degree from a Florida Community College or State University System (SUS) institution before the Fall term of 1989, or who have maintained continuous enrollment in a Florida community college or SUS institution before the Fall term, 1989, are exempt from the requirement.

- Be recommended for graduation by the faculty of the student’s major field department.

See next page for more information.
BACHELOR OF APPLIED SCIENCE PROGRAMS
Information Technology Program Code T 300

Program Description
The Bachelor of Applied Science Degree in Information Technology provides individuals who hold an Associate in Science (AS) or Associate in Applied Science (AAS) degree the opportunity to further their education. Students completing this program will have the skills and knowledge required to become successful Information Technologists and leaders in areas such as database administration, network systems administration, computer software engineering, etc. within public, private, and non-profit organizations. The curriculum offers a learner-centered and practical approach to understanding and applying Information Technology.

BAS INFORMATION TECHNOLOGY DEGREE COMPONENTS

<table>
<thead>
<tr>
<th>Earned Associate in Science or Associate in Applied Science Degree</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Requirements Credits: AS or AAS degree holders will have completed a minimum of 15 of the 36 required general education hours as a part of their AS or A. A. S. degree</td>
<td>45</td>
</tr>
<tr>
<td>LOWER DIVISION COURSEWORK FROM AS or AAS in semester credit hours</td>
<td>45</td>
</tr>
<tr>
<td>Note: Foreign language competency: Complete two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary (college) level.</td>
<td>39</td>
</tr>
<tr>
<td>UPPER LEVEL PROFESSIONAL COURSEWORK in semester credit hours</td>
<td>120</td>
</tr>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

NOTE: Students with an Associate in Arts degree (AA) or 60 credit hours without a degree may be admitted to the program upon recommendation of the Dean for BAS Programs and the Dean for Student Affairs.

UPPER DIVISION PROFESSIONAL COURSEWORK
(Sample Course Sequence)

First Semester Junior - Term 1
- CNT 3504 Networking 3
- CNT 3702 Infrastructure and Facilities Planning 3
- COP 3847 Web Systems and Technologies 3
- STA 2023 Statistics or College Level Math 3
- General Education 3

Total term credit hours 15

Second Semester Junior - Term 2
- CIS 3604 System Administration and Maintenance 3
- CNT 3703 Database Concepts 3
- COP 3847 Web Systems and Technologies 3
- General Education (e.g. science lab) 1

Total term credit hours 13

First Semester Senior - Term 1
- CEN 4341 Platform Technologies 3
- CEN 4722 Human Computer Interaction 3
- CIS 4361 Information Assurance and Security 3
- COP 4858 Integrative Programming and Technologies 3
- General Education 3

Total term credit hours 15

Second Semester Senior - Term 2
- CIS 4253 Social and Professional Issues in IT 3
- CDA 4411 Systems Integration and Architecture 3
- CIS 4596 IT Capstone Project 3
- General Education 3
- General Education (e.g. wellness) 2

Total term credit hours 14

Note: General Education requirements will vary based on existing AS or AAS degree

Note: the sequence for the following courses:
- CEN 4341: CNT3702 and CNT 3604; CIS 4361; CNT 3504
- COP 4858; COP 3847; CIS 4253; CEN 4722
- CDA 4411; CEN4341, CIS 4361, COP 4858
- CIS 4596: Must be taken in final semester

Students interested in this program, must see an academic advisor to determine course sequence.
BACHELOR OF SCIENCE EDUCATION DEGREE PROGRAM
Exceptional Student Education Program – Program Code S100

Program Description
The Bachelor of Science in Education for Exceptional Student Education is designed to qualify its graduates to teach ESE placements in grades K-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

Related Programs
Middle Grades General Science – Program Code S200
Secondary Biology – Program Code S300
Middle Grades Mathematics – Program Code S400
Secondary Mathematics – Program Code S500

B.S. ED EXCEPTIONAL STUDENT EDUCATION COMPONENTS

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
<td>36</td>
</tr>
<tr>
<td>Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

### BACHELOR OF SCIENCE EDUCATION DEGREE PROGRAM
Exceptional Student Education Program – Program Code S100

#### LOWER DIVISION COURSEWORK

**First Semester Junior - Term I**
- EDP 4004 Principles of Educational Psychology 3
- RED 3342 Foundations of Reading * 3
  - (10 hours field experience)
- TSL 3080 ESOL Issues & Strategies I * 3
  - (10 hours field experience)
- EEX 3011 Introduction to ESE (10 hours field experience) 3
- EDF 3280 Instructional Strategies (10 hours field experience) 3

* Co-requisite courses, 20 hours combined Field Experience

**Total term credit hours** 15

**Second Semester Junior - Term II**
- RED 3352 Reading in Content Areas ** 3
  - (10 hours field experience)
- EDG 4410 Classroom Management ** 3
  - (10 hours field experience)
- EDF 4430 Educational Tests and Measurements 3
- EEX 3601 Positive Behavioral Support (Prerequisite: EEX 3011) 3
  - (10 hours field experience)
- MAE 4310 Methods of Teaching Math in Elementary Schools (15 hours field experience) 3

**Total term credit hours** 15

**Co-requisite courses, 20 hours combined Field Experience

### UPPER DIVISION COURSEWORK

**Third Semester Junior - Term III**
- EEX 3280 Transition Planning 2
  - (Prerequisite: EEX 3011)
- EEX 4293 Assessment and Instructional Strategies in ESE 3
  - (Prerequisites: EDF 4430, EDF 3280, EEX 3011)
- EEX 3103 Language and Communication Disorders (Prerequisite: EEX 3011) 3

**Total term credit hours** 8

**First Semester Senior - Term 1**
- EEX 3094 Nature and Needs of Autism 3
  - (Prerequisite: EEX 3011) 3
  - (10 hours field experience)
- TSL 4081 ESOL Issues & Strategies II *** 3
  - (Prerequisite: TSL 3080) 3
  - (15 hours field experience)
- RED 4519 Literacy Assessment and Differentiated Instruction in Reading Education *** 3
  - (Prerequisites: RED 3342, RED 3352, EEX 3011) 3
  - (15 hours field experience)
- EEX 4843 Methods of Teaching Exceptional Learners Practicum *** 3
  - (Prerequisites: EEX3011, EEX3601, EEX4293, EEX3103, EEX3280) 3

**Total term credit hours** 12

*** Co-requisite courses, 30 hours combined Field Experience

**Second Semester Senior - Term 2**
- EEX 4945 Student Teaching Internship in ESE 10
  - Completion of all program requirements (35 Hours Weekly for 15 Weeks)

**Total term credit hours** 10

**Total Upper Division Credit Hours** 60
Program Description
The Bachelor of Science in Education for Middle Grades Science Education is designed to qualify its graduates to teach general science in grades 5-9. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

Related Programs
Exceptional Student Education Program – Program Code S100
Secondary Biology – Program Code S300
Middle Grades Mathematics – Program Code S400
Secondary Mathematics – Program Code S500

B.S. ED MIDDLE GRADES SCIENCE EDUCATION COMPONENTS

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Students in the Middle Grades Science Program must include the following science courses within their lower division educational plan: OCE 1001, OCE 1001L, CHM 1045, CHM1045L, BSC 1010, BSC 1010L, BSC 1011, BSC 1011L, GLLY 1010, GLLY 1010L, and AST 1003

Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

UPPER DIVISION COURSEWORK in semester credit hours 60
TOTAL 120

UPPER DIVISION COURSEWORK:
First Semester Junior - Term I
PCB 4043 Ecology 3
EEX 3011 Introduction to ESE 3
TSL 3080 ESOL Issues & Strategies I* (10 hrs. field experience) 3
RED 3342 Foundations of Reading * (10 hours field experience) 3
EDF 3280 Instructional Strategies (10 hours field experience) 3
Total term credit hours 15
* Co-requisite courses, 20 hours combined Field Experience

Second Semester Junior - Term II
ESC 4074 Weather and Climate 3
(Prerequisite: MAC1105)
EDG 4410 Classroom Management ** (10 Hours field experience) 3
RED 3352 Reading in the Content Area ** (Prerequisite: RED3342) (10 Hours field experience) 3
SCE 3320 Integrative Teaching Methods in Middle Grades Science (Prerequisite: EDF3280) (15 hours field experience) 3
Total term credit hours 12
** Co-requisite course, 20 hours combined Field Experience

Third Semester Junior - Term III
SCE 3420 Physical Science for Middle School Teachers (Co-requisite SCE3420L) 3
SCE 3420L Physical Science for Middle School Teachers Lab (Co-requisite SCE3420) 1
EDP 4004 Principles of Educational Psychology 3
Total term credit hours 7

Fourth Semester Senior - Term 1
EDF 4430 Educational Tests and Measurements 3
CHS 3452 Chemistry for Teachers 3
(Prerequisite: CHS3452L)
CHS 3452L Chemistry for Teachers Lab 1
(Prerequisite: CHS3452)
SCE 3943 Interactive Projects that Promote Learning in Science *** (Prerequisite SCE3320) 3
SCE 3941 Science Practicum **** (Prerequisite SCE3320) (50 hours field experience) 3
Total term credit hours 13
*** Co-requisite courses

Fifth Semester Senior - Term 2
SCE 4945 Student Teaching in Science 13
Completion of all program requirements (35 Hours Weekly for 15 Weeks)
Total term credit hours 13

Total Upper Division Credit Hours 60
BACHELOR OF SCIENCE EDUCATION DEGREE PROGRAM
Secondary Biology – Program Code S300

Program Description
The Bachelor of Science in Education for Secondary Biology Education is designed to qualify its graduates to teach biology in grades 6-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

Related Programs
Exceptional Student Education Program – Program Code S100
Middle Grades General Science – Program Code S200
Middle Grades Mathematics – Program Code S400
Secondary Mathematics – Program Code S500

<table>
<thead>
<tr>
<th>B.S. ED SECONDARY BIOLOGY EDUCATION COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER DIVISION COURSEWORK in semester credit hours</td>
</tr>
<tr>
<td>Associate Degree Program of Study Program Electives</td>
</tr>
<tr>
<td>General Education Core Requirements Credits:</td>
</tr>
<tr>
<td>Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
</tr>
<tr>
<td>Note: Students in the Secondary Biology Program must include the following science courses within their lower division educational plan: OCE 1001, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, BSC 1010, BSC 1010L, BSC 1011, and BSC 1011L.</td>
</tr>
<tr>
<td>Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.</td>
</tr>
<tr>
<td>UPPER DIVISION COURSEWORK in semester credit hours</td>
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<tr>
<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK</th>
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<tbody>
<tr>
<td>First Semester Junior - Term I</td>
</tr>
<tr>
<td>EEX 3011 Introduction to ESE</td>
</tr>
<tr>
<td>(10 hrs field experience)</td>
</tr>
<tr>
<td>RED 3342 Foundations of Reading *</td>
</tr>
<tr>
<td>(10 hours field experience)</td>
</tr>
<tr>
<td>TSL 3080 ESOL Issues &amp; Strategies I *</td>
</tr>
<tr>
<td>(10 hours field experience)</td>
</tr>
<tr>
<td>PCB 4043 Ecology</td>
</tr>
<tr>
<td>EDF 3280 Instructional Strategies</td>
</tr>
<tr>
<td>(10 hrs field experience)</td>
</tr>
<tr>
<td><strong>Total term credit hours</strong></td>
</tr>
<tr>
<td>* Co-requisite courses; 20 hours combined Field Experience</td>
</tr>
</tbody>
</table>

| Second Semester Junior - Term II |
| ZOO4713 Comparative Vertebrate Morphology & Physiology | 3 |
| (Co-requisite ZOO4713L) |
| ZOO4713L Comparative Vertebrate Morphology & Physiology Lab | 1 |
| (Co-requisite ZOO 4713) |
| MCB3020L General Microbiology | 3 |
| (Co-requisite MCB3020) |
| MCB3020 General Microbiology Lab | 1 |
| (Co-requisite MCB3020L) |
| EDP 4004 Principles of Educational Psychology | 3 |
| **Total term credit hours** | **13** |

| Third Semester Junior - Term III |
| MCB 3020 General Microbiology | 3 |
| (Prerequisites: BSC1010/L, BSC1011/L, CHM1045/L, CHM1046/L, CHM3205/L) |
| RED 3352 Reading in the Content Area ** | 3 |
| (Prerequisite: RED 3342) |
| (10 hours field experience) |
| EDF 4430 Educational Tests and Measurements ** | 3 |
| (10 hours field experience) |
| SCE 3941 Science Practicum | 3 |
| (Prerequisite: SCE 3330) |
| **Total term credit hours** | **15** |
| **Co-requisite courses; 20 hours combined Field Experience** |

| Fourth Semester Senior - Term I |
| RED 3352 Reading in the Content Area ** | 3 |
| (Prerequisite: RED 3342) |
| (10 hours field experience) |
| EDF 4430 Educational Tests and Measurements ** | 3 |
| (10 hours field experience) |
| PCB 3063 Genetics | 3 |
| (Prerequisites: BSC1010/L, BSC1011/L) |
| **Total term credit hours** | **15** |

| Fifth Semester Senior - Term II |
| SCE 4945 Student Teaching in Science | 13 |
| Completion of all program requirements (35 Hours Weekly for 15 Weeks) |
| **Total term credit hours** | **13** |

| Total Upper Division credit Hours | 61 |
BACHELOR OF SCIENCE EDUCATION DEGREE PROGRAM  
Middle Grades Mathematics – Program Code S400

Program Description
The Bachelor of Science in Education for Middle Grades Mathematics Education is designed to qualify its graduates to teach math in grades 5-9. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

Related Programs
Exceptional Student Education Program – Program Code S100  
Middle Grades General Science – Program Code S200  
Secondary Biology – Program Code S300  
Secondary Mathematics – Program Code S500

B.S. ED MIDDLE GRADES MATHEMATICS EDUCATION COMPONENTS

<table>
<thead>
<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
<th>60</th>
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</thead>
<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Students in the Secondary Math Program must include the following Math courses within their lower division educational plan: MAC 1105, MAC 1140, MAC 1114, STA 2023, and MAC 2311.

Foreign Language Requirement: Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
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<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
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<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK</th>
<th>3rd Semester Junior - Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester Junior - Term I</td>
<td>Third Semester Junior - Term III</td>
</tr>
<tr>
<td>EEX 3011 Introduction to ESE</td>
<td>MAA 4404 History of Mathematics (Prerequisite MAC 2311, MAD 2104)</td>
</tr>
<tr>
<td>RED 3342 Foundations of Reading*</td>
<td>MTG 3212 Geometry (Prerequisites MAD 2104)</td>
</tr>
<tr>
<td>(10 hours field experience)</td>
<td><strong>Total term credit hours</strong> 6</td>
</tr>
<tr>
<td>TSL 3080 ESOL Issues &amp; Strategies I*</td>
<td></td>
</tr>
<tr>
<td>(10 hours field experience)</td>
<td></td>
</tr>
<tr>
<td>MAD 2104 Discrete Mathematics</td>
<td></td>
</tr>
<tr>
<td>(Prerequisites MAC 1140)</td>
<td></td>
</tr>
<tr>
<td>EDF 3280 Instructional Strategies</td>
<td></td>
</tr>
<tr>
<td>(10 hours field experience)</td>
<td></td>
</tr>
<tr>
<td><strong>Total term credit hours</strong> 15</td>
<td></td>
</tr>
</tbody>
</table>

* Co-requisite courses, 20 hours combined Field Experience

<table>
<thead>
<tr>
<th>Second Semester Junior - Term II</th>
<th>Fourth Semester Senior - Term 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDP 4004 Principles of Educational Psychology</td>
<td>EDF 4430 Educational Tests and Measurements</td>
</tr>
<tr>
<td>MAS 2103 Linear Algebra</td>
<td>MAS 4300 Abstract Algebra with Introductory Number Theory (Prerequisites MAC 2311, MAD 2104)</td>
</tr>
<tr>
<td>(Prerequisite MAC 1140 &amp; MAC1114)</td>
<td></td>
</tr>
<tr>
<td>MAE 4320 Methods of Teaching Math in the Middle School</td>
<td>MAE 3143 Interactive Middle School and Secondary School Projects (Prerequisite MAE 4320)</td>
</tr>
<tr>
<td>(15 hours field experience)</td>
<td></td>
</tr>
<tr>
<td>EDF 4410 Classroom Management**</td>
<td>MAE 3941 Teaching Middle School and Secondary School Pracicum (Prerequisite MAE 4320)</td>
</tr>
<tr>
<td>(10 hours field experience)</td>
<td>(50 hours field experience)</td>
</tr>
<tr>
<td>RED 3352 Reading in the Content Area*</td>
<td><strong>Total term credit hours</strong> 12</td>
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<tr>
<td>(Prerequisite: RED3342)</td>
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</tr>
<tr>
<td>(10 hours field experience)</td>
<td></td>
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<tr>
<td><strong>Total term credit hours</strong> 15</td>
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</table>

** Co-requisite courses, 20 hours combined Field Experience

<table>
<thead>
<tr>
<th>Fifth Semester Senior - Term 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE 4945 Student Teaching</td>
<td><strong>Total term credit hours</strong> 12</td>
</tr>
<tr>
<td>(35 hours weekly for 15 weeks)</td>
<td>Completion of all program requirements</td>
</tr>
</tbody>
</table>

Total Upper Division Credit Hours 60
**BACHELOR OF SCIENCE EDUCATION DEGREE PROGRAM**  
**Secondary Mathematics – Program Code S500**

**Program Description**  
The Bachelor of Science in Education for Secondary Mathematics Education is designed to qualify its graduates to teach math in grades 6-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. (See below).

**Related Programs**  
Exceptional Student Education Program – Program Code S100  
Middle Grades General Science – Program Code S200  
Secondary Biology – Program Code S300  
Middle Grades Mathematics – Program Code S400

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### B.S. ED SECONDARY MATHEMATICS EDUCATION COMPONENTS

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<tr>
<th>LOWER DIVISION COURSEWORK in semester credit hours</th>
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<tbody>
<tr>
<td>Associate Degree Program of Study Program Electives (to include EDF1005, EDF2085, EME2040)</td>
<td>24</td>
</tr>
<tr>
<td>General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Biological Science (3) Physical Science (3) Lab (1), Wellness (2)</td>
<td>36</td>
</tr>
</tbody>
</table>

**Note:** Students in the Secondary Math Program must include the following Math courses within their lower division educational plan: MAC 1105, MAC 1140, MAC 1114, STA 2023, MAC 2311 and MAC 2312.

**Foreign Language Requirement:** Students are required to have 2-years of sequential foreign language studies from high school or 8 semester credit hours from college prior to graduation of Bachelor of Science degree.

<table>
<thead>
<tr>
<th>UPPER DIVISION COURSEWORK in semester credit hours</th>
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</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>120</td>
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</table>

### UPPER DIVISION COURSEWORK

**First Semester Junior - Term I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EEX 3011</td>
<td>Introduction to ESE</td>
<td>3</td>
</tr>
<tr>
<td>MAD 2104</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>RED 3342</td>
<td>Foundations of Reading *</td>
<td>3 (10 hours field experience)</td>
</tr>
<tr>
<td>TSL 3080</td>
<td>ESOL Issues &amp; Strategies I *</td>
<td>3 (10 hours field experience)</td>
</tr>
<tr>
<td>EDF 3280</td>
<td>Instructional Strategies</td>
<td>3 (10 hours field experience)</td>
</tr>
<tr>
<td>* Total term credit hours</td>
<td>15</td>
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**Second Semester Junior - Term II**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDP 4004</td>
<td>Principles of Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MAS 2103</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAE 4330</td>
<td>Methods of Teaching Math in the Secondary School</td>
<td>3 (Prerequisite EDF3280)</td>
</tr>
<tr>
<td></td>
<td>(15 hours field experience)</td>
<td></td>
</tr>
<tr>
<td>EDF 4410</td>
<td>Classroom Management **</td>
<td>3 (10 hours field experience)</td>
</tr>
<tr>
<td>RED 3352</td>
<td>Reading in the Content Area **</td>
<td>3 (10 hours field experience)</td>
</tr>
<tr>
<td></td>
<td>* Total term credit hours</td>
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**Third Semester Junior - Term III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MGF 4404</td>
<td>History of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>(Prerequisites MAC 2311, MAD 2104)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTG 3212</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>(Prerequisite MAD 2104)</td>
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<td></td>
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</tbody>
</table>

| * Total term credit hours | 6 |

**Fourth Semester Senior - Term 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4430</td>
<td>Educational Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>MAS 4300</td>
<td>Abstract Algebra with Introductory Number Theory</td>
<td>3 (Prerequisites MAC 2311, MAD 2104)</td>
</tr>
<tr>
<td>MAE 3143</td>
<td>Interactive Middle School and Secondary School Projects ***</td>
<td>3 (Prerequisite MAE 4330)</td>
</tr>
<tr>
<td>MAE 3941</td>
<td>Teaching Middle School and Secondary School Practicum ***</td>
<td>3 (Prerequisite MAE 4330)</td>
</tr>
<tr>
<td></td>
<td>(50 hours field experience)</td>
<td></td>
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</tbody>
</table>

*** Co-requisite courses

| * Total term credit hours | 12 |

**Fifth Semester Senior - Term 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MAE 4945</td>
<td>Student Teaching</td>
<td>12</td>
</tr>
<tr>
<td>(35 hours weekly for 15 weeks)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completion of all program requirements</td>
<td></td>
<td></td>
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</tbody>
</table>

| * Total term credit hours | 12 |

| Total Upper Division Credit Hours | 60 |
Mission Statement
Consistent with the mission of the College and building on the mission of the Associate Degree nursing program, the faculty of Broward College’s RN-BSN Nursing program are committed to achieving student success by preparing baccalaureate nurse generalist for the role of provider of direct and indirect care, designer, manager and coordinator of that care, and a member of the nursing profession. The RN-BSN program has Program Candidacy status with the National League of Nursing Accrediting Commission (NLNAC).

The mission of the RN-BSN nursing program is to prepare a professional and competent nurse who practices in a dynamic health care environment across communities, populations, and life-spans; providing leadership to promote and improve global health; is committed to the advancement of nursing knowledge and practice, celebrates diversity, and aspires to lifelong learning and achievement.

Program Philosophy
The faculty believes that nursing is a discipline in which the holistic needs of the person are met in a variety of settings. The body of knowledge that serves as the rationale for nursing practice and is held to be of most value in the discipline of nursing includes: (1) empirics, the science of nursing; (2) esthetics, the art of nursing; (3) knowing, the component of personal knowledge in nursing; and (4) ethics, the component of moral knowledge in nursing.(Carper, 1978). The essence of nursing is situated in practice-oriented, person-centered caring, guided by ethical decision-making and shaped by internal and external environments, diverse family and community structures, and engagement with the larger community, both locally and globally, increasing global interdependence, and social, political, professional, and economic systems.

Related Programs
LPN-RN Transition Major Code 2127
Nursing (RN) Associate in Science Degree Major Code 2127

Admission Requirements
The RN-BSN in Nursing Program is designed for Florida licensed registered nurses who have earned a two-year associate of science degree and wish to advance professionally.

Applicants must complete the following requirements prior to formal admission into the RN-BSN Program:
- Apply to and be accepted by Broward College as a degree-seeking student ($35.00 application fee required). Please go to: http://facts.org to apply and complete an admission application.
- International Students must go to: http://www.broward.edu/international/ to apply and complete an admission application ($75.00 application fee required for International applicants).
- Submit a supplemental application to the RN-BSN Program by the deadline: for winter admission, the deadline is August 30, and for fall admission the deadline is April 30th of every year interested students please go to the following link: http://www.broward.edu/bsn.
- Possess an Associate of Science in Nursing or higher from an accredited institution recognized by Broward College.
- Possess an unrestricted and unencumbered active license as a registered nurse in Florida if enrolling in face-to-face classes, Applicants who do not hold an active Florida Registered Nurse license should contact - The Florida Board of Nursing at: (850) 245 - 4125.
- Apply for Financial Aid before the published deadlines on the Student Financial Aid webpage.
- Achieve a minimum 2.5 overall cumulative and a 2.5 nursing GPA.
- Successfully complete required health forms.
- Successfully complete a (level 2) background investigation and drug screening (fee required).
- Successfully completed statistics (STA 2023) or equivalent course recognized by Broward College
- Successfully completed a minimum of 24 General Education requirement credits
- Completion of 24 or more General Education requirement credits.

Graduation Requirements for RN-BSN Baccalaureate Degree
- The Bachelor of Science in Nursing will be awarded to students who meet the following requirements:
- A minimum of 120 semester credit hours in the prescribed coursework required for the Bachelor’s degree
- 36 general education credits
  - 18 Florida State common requisites (course work from Associate’s Degree may count towards this requirement)
- Two years of the same foreign language in high school or complete requirement prior to graduation at the postsecondary level
- Computer Technology Literacy Requirement by passing the Student Technology Literacy Exam or successfully completing CGS1060C
- Validated Nursing Courses from Lower Division Nursing or equivalent courses
- Completion of a professional portfolio in NUR 4945
- 36 credit hours of Upper Division Nursing courses

Continued on next page
Program Description
The Registered Nurse to Bachelor of Science in Nursing (RN-BSN Program) is offered as a face-to-face or online post-licensure program intended to provide an increased educational opportunity for unrestricted and unencumbered licensed Florida Registered Nurses (RNs). RNs applying to the program must have earned an Associate of Science (AS) Degree in nursing to matriculate into a baccalaureate degree program. This one hundred twenty (120) credit hour program incorporates the Associate of Arts (AA) and the AS lower division coursework as the foundation of the baccalaureate program.

BACHELOR OF SCIENCE IN NURSING DEGREE COMPONENTS

| Earned Associate in Science or Associate in Applied Science Degree |  
| General Education Core Requirements Credits: AS degree holders will have completed the 36 required general education hours as a part of their AS degree | 36  
| State of Florida Common Pre-Requisites | 14  
| Required RN-BSN Nursing Prerequisite Courses | 4  
| Lower level validated nursing coursework in semester credit hours | 30  
| Upper level required nursing coursework in semester credit hours | 36  
| TOTAL | 120  

Upper - Level Professional Courses (36 Hours)
(Fall and Winter Admission Terms Only)

First Semester (First 8-weeks)
- NUR 3805  Nursing Roles, Dimensions, & Perspectives 3  
- NUR 3069  Advanced Health Assessment 2  
- NUR 3069L  Advanced Health Assessment Lab 1  
- NUR 3678  Nursing Care of Vulnerable Populations 3  
  Total term credit hours 9  

Second Semester (First 8-weeks)
- NUR 4667  Nursing Perspectives & Global Trends 3  
- NUR 4636  Community Health Nursing 3  
- NUR 4636L  Community Health Nursing Practicum 2  
  Total term credit hours 8  

First Semester (Second 8-weeks)
- NUR 3119  Nursing Concepts & Theories 3  
- NUR 3167  Nurse as Scholar 3  
- NUR 4165  Nursing Research 3  
  Total term credit hours 9  

Second Semester (Second 8-weeks)
- NUR4284  Dynamic & Contemporary Issues in Aging 3  
- NUR 4827  Principles in Nursing Leadership & Management 3  
  Total term credit hours 6  

Third Semester (First 6-weeks)
- NUR 4945  Nursing Capstone 2  
- NUR 4945L  Nursing Capstone Practicum 2  
  Total term credit hours 4
**Educator Preparation Institute (EPI)**
The EPI is an accelerated alternative certification program that targets individuals who currently hold at least a bachelors degree in an area of study other than education. The EPI provides the knowledge and tools needed to obtain a Florida Professional Teaching Certificate.

**Admission Requirements:**
Individuals are required to:
- hold at least a baccalaureate degree from a regionally accredited college/university
- have an undergraduate GPA of 2.5 or higher
- have or be in the process of obtaining a Statement of Eligibility from the Florida Department of Education
- complete a BC credit application as well as the supplemental EPI application.
- request all official (sealed) transcripts to be sent to BC

The final phase of the admissions process is a face-to-face interview. All applicants must be interviewed before they can be accepted into the program. The interview provides the EPI staff the opportunity to evaluate the applicant’s disposition, motivation and educational goals.

**Curriculum:**
The EPI program is 21 credits consisting of 7 courses and 2 field experiences. The EPI is a “packaged” program and therefore all students are required to complete the full 21 credits. Students are also required to maintain a 2.5 GPA throughout the program.

BC’s EPI program is a fully online program. Many faculty members choose to have optional face-to-face meetings throughout the semester to support and enhance the student’s learning experience. The EPI courses are:
- Classroom Management
- Instructional Strategies
- Technology
- The Teaching and Learning Process
- Foundations of Research Based Practices in Reading
- The Teaching Profession with Field Experience
- Diversity with Field Experience

**Additional Completion Requirements:**
In addition to the 21 credits, students are required to create an electronic portfolio to document their competency of the Florida Educator Accomplished Practices. Students are also required to take and pass all sections of the Florida Teacher Certification Examinations (the General Knowledge, the Subject Area, and the Profession Education Exams).

**Contact Information:**
Contact the EPI office for more information at www.broward.edu or 954 201 4538
Programs of Study

- Chart of Career & Technical Education Programs
- Associate in Applied Science Programs
- Associate in Science Programs
- Certificate Programs
- Diploma Programs
# Broward College
## Career & Technical Education Programs
### 2011-2012

<table>
<thead>
<tr>
<th>Programs</th>
<th>Degree/Certificate</th>
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</table>

AAS - Associate in Applied Science Degree  
AS – Associate In Science Degree  
ATC - Advanced Technical Certificate  
CHSE - Center for Health Sciences Education  
WHC - Downtown Higher Education Complex  
**BAT - Basic Abilities Test-administered in the Criminal Justice Testing Center, Central Campus**  
*These programs require an additional application and students must meet program admission criteria. For further information, call 954-201-6058 or 954-201-2890 or see program of study catalog page*
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<tr>
<td>Nuclear Medicine</td>
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<td>CPT</td>
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</tr>
<tr>
<td>Nursing *</td>
<td>AS</td>
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<td>HS Diploma/GED</td>
<td>CPT</td>
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<td>Nursing RN *</td>
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<td>Central North South</td>
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<td>Nursing RN On-Line</td>
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<td>Basic Perioperative Nursing</td>
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<td>Coronary Care Nursing</td>
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<td>Graduate Nurse Intern</td>
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<td>Home Health Nursing</td>
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<td>Multi-Skill Health Care Professional</td>
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<td>Associate Degree</td>
<td>None</td>
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<tr>
<td>Office Administration</td>
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<td>North South</td>
<td>HS Diploma/GED</td>
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<td>Legal Office Specialization</td>
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<td>HS Diploma/GED</td>
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<td>Medical Office Management</td>
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<td>Medical Office Specialization</td>
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<td>North South</td>
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<td>Office Management Specialization</td>
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<td>HS Diploma/GED</td>
<td>CPT</td>
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<tr>
<td>Office Management</td>
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<td>HS Diploma/GED</td>
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<td>Office Software Applications</td>
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<td>North South</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<td>Office Specialist</td>
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<td>Office Support</td>
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<td>HS Diploma/GED</td>
<td>CPT</td>
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<tr>
<td>Physical Therapist Assistant</td>
<td>AAS, ATC</td>
<td>North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>278</td>
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<tr>
<td>Manual Techniques for the PTA *</td>
<td>ATC</td>
<td>North</td>
<td>Associate Degree</td>
<td></td>
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</tr>
</tbody>
</table>

AAS - Associate in Applied Science Degree  AS – Associate In Science Degree  ATC - Advanced Technical Certificate  
CHSE - Center for Health Sciences Education  WHC - Downtown Higher Education Complex  
**BAT - Basic Abilities Test-administered in the Criminal Justice Testing Center, Central Campus  
*These programs require an additional application and students must meet program admission criteria. For further information, call 954-201-6058 or 954-201-2890 or see program of study catalog page.
## Programs of Study

### Broward College
Career & Technical Education Programs
2011-2012

<table>
<thead>
<tr>
<th>Programs</th>
<th>Degree/Certificate</th>
<th>Location</th>
<th>High School Diploma/GED</th>
<th>Test</th>
<th>Catalog Page</th>
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<tbody>
<tr>
<td>Radiation Therapy Technology Radiation Therapy Specialist</td>
<td>AS - C</td>
<td>North</td>
<td>HS Diploma/GED Associate Degree</td>
<td>CPT</td>
<td>272</td>
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<td>Radiography Hospital Based Radiography</td>
<td>AAS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>277</td>
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<tr>
<td>Respiratory Care</td>
<td>AS - AS</td>
<td>North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<tr>
<td>Restaurant Management</td>
<td>AAS - C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<tr>
<td>Sports, Fitness and Recreation Management</td>
<td>AS - C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
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<td>Telecommunications Engineering Technology</td>
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<td>North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>284</td>
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<tr>
<td>Travel &amp; Tourism Industry Management</td>
<td>AAS - AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>285</td>
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<tr>
<td>Vision Care Technology Opticianry</td>
<td>AS - C</td>
<td>North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>286</td>
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</tbody>
</table>

**Notes:**
- AAS - Associate in Applied Science Degree
- AS - Associate In Science Degree
- ATC - Advanced Technical Certificate
- ATD - Applied Technical Diploma Certificate
- CHSE - Center for Health Sciences Education
- WHC - Downtown Higher Education Complex
- **BAT** - Basic Abilities Test administered in the Criminal Justice Testing Center, Central Campus
- *These programs require an additional application and students must meet program admission criteria. For further information, call 954-201-6058 or 954-201-2890 or see program of study catalog page.

*www.broward.edu*
ACCOUNTING TECHNOLOGY PROGRAMS
Accounting Applications Technical Certificate Major Code 62140 (6214E)

**Program Description**
The Accounting Applications Technology Certificate, offered at all BC locations, is designed to qualify successful completers for jobs as accounting clerks or positions in corporate training departments. All courses are available online.

**Related Programs**
Accounting Technology Associate in Science Major Code 2100 (2100E)

<table>
<thead>
<tr>
<th>First Year Term I</th>
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</tr>
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<tbody>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting I</td>
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<tr>
<td><strong>CGS 1060C</strong></td>
<td>Computer and Internet Literacy</td>
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</tr>
<tr>
<td>GEB 1011</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MTB 1103</td>
<td>Business Mathematics</td>
<td>3</td>
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<td><strong>Total Term Semester Hours</strong></td>
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<table>
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<th>First Year Term II</th>
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<tr>
<td><em>ACG 2011</em></td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>TAX 2000</td>
<td>Income Tax I</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce</td>
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<table>
<thead>
<tr>
<th>First Year Term III</th>
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<tr>
<td><em>ACG 2071</em></td>
<td>Managerial Accounting</td>
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<td><strong>Total Certificate Semester Hours</strong></td>
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</table>

*Requires a pre-requisite. See course description online.

**Note:** The Major Code 6214E is for students who take this program online.

It is strongly recommended that students see an academic advisor or counselor every term.
ACCOUNTING TECHNOLOGY
Accounting Technology Associate in Science Major Code 2100 (2100E)

Program Description
The Associate in Science degree in Accounting Technology is designed for students who intend to seek employment in the accounting field and for those who are presently employed in accounting and desire advancement. Some of the careers, to which this sequence may lead, are accounting, banking, real estate, and general management. All courses are available online.

Related Programs
Accounting Applications Technical Certificate Major Code 62140 (6214E)

Entrance Requirements
- HS Diploma or GED
- PERT*

* The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
- ACG 2001 Principles of Accounting I 3
- **CGS 1060C Introduction to Computer Literacy 3
- GEB 1011 Introduction to Business 3
- MTB 1103 Business Math 3
- **Elective Business 3

Total Term Semester Hours 15

First Year Term II
- *ACG 2011 Principles of Accounting II 3
- TAX 2000 Income Tax I 3
- BUL 2241 Business Law I 3
- OST 2335 Communications in the Workforce 3

Total Term Semester Hours 12

First Year Term III
- *ACG 2071 Managerial Accounting 3
- **Elective Business 3

Total Term Semester Hours 6

Second Year Term I
- *ACG 2100 Intermediate Accounting I 3
- *TAX 2010 Income Tax II 3
- *ENC 1101 Composition I 3
- ECO 2013 Principles of Economics I 3
- BUL 2242 Business Law II 3
- GEB 2430 Business Ethics 1

Total Term Semester Hours 16

Second Year Term II
- *ACG 2110 Intermediate Accounting II 3
- **Elective Mathematics or Science 3
- **Elective Business 3
- Elective Humanities/Fine Arts 3
- SPC 1608 Public Speaking 3

Total Term Semester Hours 15

Total Program semester Hours 64

*Requires a pre-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

**Business Electives are satisfied by taking any two of the following courses: ECO 2023, FIN 1100, GEB 2112, MAN 2021, MAN 2604, MAR 1011, MNA 1161, REE 1040.

*** CGS1060C must be completed within the first 15 hours of Broward College coursework.

# Must be college-level and transferable.

It is strongly recommended that students see an academic advisor or counselor every term.

Note: The Major Code 2100E is for students who take this program on-line.
AUTOMOTIVE SERVICE MANAGEMENT TECHNOLOGY
Associate in Applied Science Technician Major Code A004

Program Description
This Automotive Service Management Technology program, offered at South Campus, is designed both to prepare entry-level automotive technicians and to provide academic background for advancement to management positions in the automotive service industry.

Corporate Programs: Automotive Technology Programs sponsored by Automobile Manufacturers are limited enrollment programs and require an internship at a dealership.

Master Technician Program: ASE (National Institute for Automotive Service Excellence) Certified Automotive Technicians may be eligible for up to 41 college credits based on lifelong learning and work experience.

For additional information about the programs listed above, contact the BC Automotive Technology Associate Dean at (954) 201-8621 or email autotech@broward.edu.

General Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Academic Core Courses Associate in Applied Science Options
*ENC 1101 English Composition 3
Elective Humanities (Area 2) 3
Elective Social/Behavioral Sciences (Area 3) 3
‡MTB 1310 Applied Mathematics 3
SPC 1024 Intro to Speech Communication or SPC 1608 Intro to Public Speaking 3
MNA 2345 Principles of Supervision or MNA1161 Introduction to Customer Service 3
Cooperative Education (Internship) 6
Total Academic Core Credits 24

Technical Course Requirements
#AER 1081C Introduction to Automotive Technology 4
#AER 1111C Engine Repair 4
#AER 1698C Electrical Systems 4
#AER 1695C Electronics 4
#AER 2398C Manual Drive Train and Axles 4
#AER 2298C Automatic Transmissions 4
#AER 2895C Advanced Engine Performance 4
#AER 2410C Brake Systems 4
#AER 2898C Engine Performance 4
#AER 2758C Heating and Air Conditioning Theory 4
#AER 2498C Steering and Suspension 4
Total Technical Service Credits 44
Total Technical Service Degree Credits 68

Associate in Science Technician Service Major Code 21681

*Requires a pre- or co-requisite or proper score in placement test. See the course description in the catalog or online.

#Credit is awarded for completion of a NATEF accredited Automotive Service Technology Program at Broward or Miami-Dade County Public Schools Technical Centers. Contact the program manager for Additional details.

NOTE: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an academic advisor or counselor every term.

5 Students seeking an Associate in Science Degree for the purpose of transferring into a state University shall substitute MTB 1310, Applied Mathematics with a college level transferable math course.
AUTOMOTIVE TECHNOLOGY, DEALER SPECIFIC
Associate in Applied Science Automotive Technology, Dealer Specific Major Code A037

Program Description
The Automotive Technology Dealer Specific program, offered at the South Campus Miramar Center, is designed both to prepare entry-level dealership automotive technicians and to provide academic background for advancement to management positions in the automotive service industry.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Corporate Programs
Automotive Technology Programs sponsored by Automobile Manufacturers are limited enrollment programs and require an internship at a dealership.

- The General Motors Automobile Service Educational Program (GM-ASEP) is taught at the BC Miramar Center 954-201-8601.
- The Ford Automotive Student Service Educational Program (Ford ASSET) and the Daimler Chrysler College Automotive Program (Chrysler CAP) are taught in conjunction with Sheridan Technical Center (754) 321-5400.
- The Toyota Technical Education Network (T-TEN) program courses are taught in conjunction with Atlantic Technical Center (754) 321-5188.
- The Honda Professional Automotive Career Training Program (Honda PACT) program courses are taught in conjunction with Robert Morgan Technical Education Center (305) 253-9920.

For additional information about the programs listed above, contact the BC Automotive Technology Program Manager at 954-201-8601 or email autotech@broward.edu

Academic Core Courses Associate in Applied Science Options

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENC 1101</td>
<td>English Composition</td>
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<tr>
<td>* Elective</td>
<td>Humanities (Area 2)</td>
<td>3</td>
</tr>
<tr>
<td>* Elective</td>
<td>Social/Behavioral Sciences (Area 3)</td>
<td>3</td>
</tr>
<tr>
<td>* MTB 1310</td>
<td>Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communication or</td>
<td></td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MNA2345</td>
<td>Principles of Supervision or</td>
<td></td>
</tr>
<tr>
<td>MNA1161</td>
<td>Introduction to Customer Service</td>
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<tr>
<td>Internship</td>
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<td><strong>Total Academic Core Credits</strong></td>
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Technical Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AER 1081C</td>
<td>Introduction to Automotive Technology</td>
<td>4</td>
</tr>
<tr>
<td>AER 1111C</td>
<td>Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>AER 1698C</td>
<td>Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AER 1695C</td>
<td>Electronics</td>
<td>4</td>
</tr>
<tr>
<td>AER 2398C</td>
<td>Manual Drive Train and Axles</td>
<td>4</td>
</tr>
<tr>
<td>AER 2298C</td>
<td>Automatic transmissions</td>
<td>4</td>
</tr>
<tr>
<td>AER 2895C</td>
<td>Advanced Engine Performance</td>
<td>4</td>
</tr>
<tr>
<td>AER 2410C</td>
<td>Brake Systems</td>
<td>4</td>
</tr>
<tr>
<td>AER 2898C</td>
<td>Engine Performance</td>
<td>4</td>
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<tr>
<td>AER 2758C</td>
<td>Heating and Air Conditioning Theory</td>
<td>4</td>
</tr>
<tr>
<td>AER 2498C</td>
<td>Steering and Suspension</td>
<td>4</td>
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<tr>
<td><strong>Total Technical Service Credits</strong></td>
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<td><strong>Total Technical Service Degree Credits</strong></td>
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* Requires a pre- or co-requisite or proper score in placement test. See course description on-line for additional information.

NOTE: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an academic advisor or counselor every term.

Associate in Science Automotive Technology, Dealer Specific Major Code 2197

§ Students seeking an Associate in Science degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics with a college level transferable math course
### Program Description

The Professional Pilot Program, offered at Judson A. Samuels South Campus, provides the flight and ground school requirement for the private and commercial pilot certificates with instrument and multi engine ratings, as well as an Associate in Science degree. The flight instructor certificate is optional. The pilot ground school is fully approved by the FAA and the College is certified as an FAA Air Agency under Federal Aviation Regulations Part 141. BC’s Aviation Institute partners with a contracted flight training provider for flight courses assisting BC students with flight-related career development opportunities. BC graduates who have chosen to also complete the Flight Instructor Certificates and Multi-Engine courses will be eligible to interview to become a Flight Instructor in the program. Student’s who wish to obtain a bachelor’s degree can transfer BC’s credits to a four-year institution such as Florida Atlantic University or Embry-Riddle Aeronautical University.

*It is strongly recommended students see the Admissions Coordinator at the Aviation Institute for additional information.*

### Professional Pilot Technology

Prepares students for FAA certification as private pilot and commercial pilot with instrument rating with career-path opportunities to include multi-engine rating and certified flight instructor. Career path graduates are provided job interviews and job placement opportunities.

**Related Programs**

- Aviation Operations Associate in Science Major Code 2105
- Air Traffic Control Associate in Applied Science Major Code A039
- Airport Operations Management Associate in Science Major Code 2105
- Air Traffic Control Associate in Applied Science Major Code A005
- Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
- Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
- Aviation Maintenance Management Associate in Science Major Code 2204
- Avionics Vocational Certificate Major Code 5299

*Students can earn a degree from 2105 (2105E) or 2105, but not from both of these programs.*

### Entrance Requirements

- HS Diploma or GED
- PERT

*The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.*

<table>
<thead>
<tr>
<th><strong>First Year Term I</strong></th>
<th></th>
<th><strong>Second Year Term I</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>ATT 1100</em> Aeronautical Science</td>
<td>3</td>
<td><em>ASC 1610</em> Aircraft Engines, Structures, and Systems</td>
</tr>
<tr>
<td><em>ASC 1100</em> Navigational Science</td>
<td>3</td>
<td><em>ATF 2210</em> Commercial Flight II</td>
</tr>
<tr>
<td><em>ATF 1100</em> Primary Flight</td>
<td>3</td>
<td><em>ATT 2110</em> Commercial Flight Theory</td>
</tr>
<tr>
<td>ASC 1010 History of Aviation</td>
<td>3</td>
<td><em>MAC 1105</em> College Algebra</td>
</tr>
<tr>
<td><strong>CGS 1060C</strong> Computer and Internet Literacy or <em>Aeronautical Science</em></td>
<td>3</td>
<td><em>(MAC 2233)</em> Business Calculus</td>
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<tr>
<td><em>ATT 2110</em> Flight Simulator Training</td>
<td>1</td>
<td><em>ENC 1101</em> Composition I</td>
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<tr>
<td><em>ASC 1210</em> Aviation Weather</td>
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<td><em>ASC 2870</em> Aviation Safety</td>
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<tr>
<td><em>ASC 2110</em> Navigational Science II</td>
<td>3</td>
<td><em>(PHY 1001)</em> Applied Physics</td>
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<td><em>ATT 2120</em> Instrument Flight Theory</td>
<td>3</td>
<td><em>(PHY 1001L)</em> Applied Physics Lab</td>
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<td><em>ATF 2200</em> Commercial Flight I</td>
<td>3</td>
<td>SPC 1024 Introduction to Speech</td>
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<td><em>ATF 2600</em> Flight Simulator Training</td>
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<td>SPC 1608 Introduction to Public Speaking</td>
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<tr>
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<tr>
<td>Elective Social/Behavior Sciences</td>
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<tr>
<td>+ECO 2013 Principles of Economics</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Continued on next page
**AVIATION INSTITUTE**

Professional Pilot Technology Associate in Science Major Code 2107 (cont.)

*Requires a pre- or co-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

**CGS1060C must be completed within the first 15 hours of Broward College coursework. Students who successfully complete the Basic Student Technology literacy Test may select from the following list of courses to complete the degree requirements.

AVM 1440 Airport/Airline Security,
ASC 2410 Airport Management,
ASC 1550 Aerodynamics,
AVM 2450 Airport Planning and Design,
ASC 2320 Aviation Law and Regulations,
AVM 2510 Airline Management, or
AVM 2301 General Aviation Marketing and Management

+ECO 2013 and MAC 2233 are recommended for students transferring to Florida Atlantic University (FAU), Bachelor of Business Administration, major in Management (BBA).

Students desiring to transfer to the BBA program may complete the following courses at BC: ENC 1102, Composition II; STA 2023, Introduction to Statistics, ACG 2001, Accounting I; ACG 2011, Accounting II, and ECO, Economics II.

**MAT 1033, Intermediate Algebra, may be substituted if the student does not plan to transfer to an upper level college or university.

Students may select ATF 2500, Flight Instructor Training; or ATF 2400, Multi-Engine, with ATF 2630, Multi-Engine Simulator. For other options contact the Aviation Department.

**PHY 2053, General Physics I and PHY 2053L, General Physics I Lab may be substituted by students with the appropriate math pre-requisites. Some universities require General Physics.

(4) Flight training costs apply.

**Credit for Experiential Learning:** Students who possess an FAA certificate or rating obtained before enrolling in the Professional Pilot program should contact the department to request credit for certain courses.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Air Traffic Control program is designed to provide qualified applicants to fill developmental air traffic control specialist (ATCS) positions. Broward College is one of the colleges selected by the FAA to participate in the Air Traffic Collegiate Training Initiative (AT-CTI) program. All ATC training is done in our state-of-the-art facility in Miramar Town Center where the college has a $1 million laboratory that includes radar, enroute and tower simulators to provide students with the technical and academic skills necessary to succeed.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Aviation Operations Associate in Science Major Code 2105 (2105E)*
Airport Operations Management Associate in Science Major Code 21051
Airport Management Certificate Major Code 6304
Aviation Maintenance Management Associate in Science Major Code 2204
Aviation Maintenance Management Associate in Applied Science Major Code A005
Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
Avionics Vocational Certificate Major Code 5299
§ Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

General Entrance Requirements
• HS Diploma or GED
• PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Semester
(1) ATT 1100 Aeronautical Science 3
(1) ASC 1100 Navigational Science 3
(1) ATT 1810 Environment of the ATC 3
(1) ATT 2820 Introduction to ATC 3
*CGS 1060C Computer and Internet Literacy or Aviation elective 3
(1) Co requisites, or department / instructor permission required

Second Semester
ASC 1210 Aviation Weather 3
ASC 1610 Aircraft Engines, Structures & Systems or ASC 1550 Aerodynamics 3
ATT 2822C VFR Tower Operations with Lab 4
**ASC or AVM Aviation Elective 3
***MAT 1033 Intermediate Algebra 3

Third Semester
ATT 2821C ATC Radar Procedure with Lab 4
*ASC or AVM Aviation Elective 3
ASC 2472 Psychology/Physiology of Flight 3
SPC 1024 Introduction to Speech Communications 3
ELECTIVE Humanities / Fine Arts 3

Fourth Semester
ATT 2825C ATC Enroute Operations with Lab 4
ASC 2870 Aviation Safety 3
*ASC or AVM Aviation Elective 3
ENC 1101 English Composition I 3
ELECTIVE Social Behavioral Science 3
ATT 2890 ATC Capstone Project 1

Total 64

* CGS1060C must be completed within the first 15 hours of Broward College coursework. Students who successfully complete the Basic Student Technology literacy Test may select from the following list of courses to complete the degree requirement.

** Aviation Elective Courses
ASC 2320 Aviation Law and Regulations 3
ASC 1010 Aviation History 3
AVM 1440 Airport / Airline Security 3
AVM 1940 Airport Operations Internship I 3
AVM 2941 Airport Operations Internship II 3
AVM 2450 Airport Planning and Design 3
AVM 2410 Airport Management 3

*** MAC 1105 may be substituted for MAT 1033 if student plans to transfer to upper-level College or university

It is strongly recommended that students see an academic advisor or counselor every term.
### Program Description
The Aviation Operations Associate in Science Degrees, offered at the Judson A. Samuels South Campus, is designed for individuals whose careers objectives include operational and management positions within the aviation industry. The program also provides the foundation to pursue a bachelor’s degree in management. Selected aviation knowledge is provided together with general business management courses. It is strongly recommended students see the Admissions Coordinator at the Aviation Institute for additional information.

**Related Programs**
- Professional Pilot Technology Associate in Science Major Code 2107
- Air Traffic Control Associate in Applied Science Major Code A039
- Airport Operations Management Associate in Science Major Code 2105
- Airport Management Certificate Major Code 6304
- Aviation Maintenance Management Associate in Science Major Code 2204
- Aviation Safety
- Applied Physics
- Principles of Accounting
- Principles of Economics
- Aviation Weather
- Airline Management
- General Physics
- Principles of Accounting
- Principles of Economics
- Aviation Weather
- Airline Management
- General Physics

### Entrance Requirements
- HS Diploma or GED
- PERT

The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### Total Program Semester Hours
64

* Requires a pre- or co-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

** CGS1060C must be completed within the first 15 hours of Broward College coursework. Students who successfully complete the Basic Student Technology literacy Test may select from the following list of courses to complete the degree requirements.

AVM1440 Airport/Airline Security
ASC 1550 Aerodynamics
AVM2450 Airport Planning and Design
ASC 2320 Aviation Law
ASC 2472 Human Factors in Flight and ATC

MAT 1033, Intermediate Algebra, may be taken by students who do not plan to transfer to an upper level college or university.

Student interested in flight operations may substitute the following courses for those marked with 

- ASC 2110, Navigational Science II; ATT 2120, Instrument Flight Theory, ATT 2110, Commercial Flight Theory, or a flight course.
- PHY 2053 General Physics I and PHY 2053L General Physics I Lab may be substituted by students who have the appropriate math pre-requisites. Some universities require General Physics.

Since 1966 our aviation school has been preparing students for careers in: Professional Pilot Technology, Aviation Maintenance Management, Aviation Operations, Airport Operations Management, and Air Traffic Control.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>64</th>
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<tbody>
<tr>
<td>ATT 1100</td>
<td>Aeronautical Science</td>
</tr>
<tr>
<td>ASC 1100</td>
<td>Navigational Science I</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro. to Speech or</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Intro. to Public Speaking</td>
</tr>
<tr>
<td><strong>CGS 1060C</strong></td>
<td>Computer and Internet Literacy</td>
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<tr>
<th>First Year Term II</th>
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<tbody>
<tr>
<td>AVM 2301</td>
<td>General Aviation Marketing and Management</td>
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<tr>
<td><strong>ENC 1102</strong></td>
<td>Composition II</td>
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<tr>
<td><strong>ENC 2210</strong></td>
<td>Technical Report Writing</td>
</tr>
<tr>
<td>ASC 1010</td>
<td>Aviation History</td>
</tr>
<tr>
<td>AVM 2410</td>
<td>Airport Management</td>
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<tr>
<td><strong>MAC 1105</strong></td>
<td>College Algebra</td>
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<table>
<thead>
<tr>
<th>First Year Term III</th>
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<tbody>
<tr>
<td>POS 2041</td>
<td>National Government</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>AVM 2510</td>
<td>Airline Management</td>
</tr>
<tr>
<td><strong>ASC 1210</strong></td>
<td>Aviation Weather</td>
</tr>
<tr>
<td><strong>ECO 2013</strong></td>
<td>Principles of Economics I</td>
</tr>
<tr>
<td><strong>ACG 2001</strong></td>
<td>Principles of Accounting I</td>
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<tr>
<td><strong>STA 2023</strong></td>
<td>Elementary Statistics</td>
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<table>
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<td><strong>ECO 2023</strong></td>
<td>Principles of Economics II</td>
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<tr>
<td><strong>ACG 2011</strong></td>
<td>Principles of Accounting II</td>
</tr>
<tr>
<td><strong>PHY 1001</strong></td>
<td>Applied Physics</td>
</tr>
<tr>
<td><strong>PHY 1001L</strong></td>
<td>Applied Physics Lab</td>
</tr>
<tr>
<td><strong>ASC 2870</strong></td>
<td>Aviation Safety</td>
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<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>13</td>
</tr>
</tbody>
</table>
**AVIATION INSTITUTE**  
Airport Operations Management Associate in Science Major Code 21051

**Program Description**  
The Airport Operations Management Associate in Science degree prepares students for an operations agent position. Operations agents are responsible for airfield inspections, communications and emergency centers of airports. They apply regulatory requirements of the airport and the security, safety and legal concerns of aviation on the ground. Student can gain real world experience of the day-to-day activities in the field while learning the certification requirements of airports.

**Related Programs**  
Professional Pilot Technology Associate in Science Major Code 2107  
Air Traffic Control Associate in Applied Science Major Code A039  
Aviation Operations Associate in Science Major Code 2105 (2105E)  
Airport Management Certificate Major Code 6304  
Aviation Maintenance Management Associate in Science Major Code 2204  
Aviation Maintenance Management Associate in Applied Science Major Code A005  
Aircraft Airframe Mechanics Vocational Certificate Major Code 5272  
Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273  
Avionics Vocational Certificate Major Code 5299

$Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

**Entrance Requirements**  
- HS Diploma or GED  
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>First Year Term I</th>
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<tbody>
<tr>
<td>*ATT 1100  Aeronautical Science</td>
<td>3</td>
</tr>
<tr>
<td>*ASC 1100  Navigation Science I</td>
<td>3</td>
</tr>
<tr>
<td>*ENC 1101  Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024  Intro. to Speech or SPC 1608  Intro. To Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>**CGS 1060C  Computer and Internet Literacy or Aviation elective</td>
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<tr>
<td>**Total Term Semester Hours</td>
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<table>
<thead>
<tr>
<th>First Year Term II</th>
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</thead>
<tbody>
<tr>
<td>AVM 2301  General Aviation Marketing and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2241  Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335  Communications in the Workforce or *ENC 2210  Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>AVM 2410  Airport Management</td>
<td>3</td>
</tr>
<tr>
<td>ASC 1010  Aviation History</td>
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<td>**Total Term Semester Hours</td>
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</table>

<table>
<thead>
<tr>
<th>First Year Term III</th>
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</thead>
<tbody>
<tr>
<td>***AVM 1940  A/P Ops Internship I</td>
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<tr>
<td>GEB 2430  Business Ethics</td>
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<table>
<thead>
<tr>
<th>Second Year Term I</th>
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</thead>
<tbody>
<tr>
<td>AVM 2510  Airline Management</td>
<td>3</td>
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<tr>
<td>ACG 2001  Principles of Accounting I</td>
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<tr>
<td>AVM 1440  Airport/Airline Security</td>
<td>3</td>
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<td>Elective  Humanities/Fine Arts</td>
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<tr>
<td>AVM 2540  Airport Planning &amp; Design</td>
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<table>
<thead>
<tr>
<th>Second Year Term II</th>
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<tbody>
<tr>
<td>***AVM 2941  A/P Ops Internship II</td>
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<td>*ASC 2870  Aviation Safety</td>
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<td>ECO 2013  Principles of Economics I or INP 1390  Human Relations in Business and Industry</td>
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<tr>
<td>ASC 2320  Aviation Law and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>Elective  Math/Natural Science</td>
<td>3</td>
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<tr>
<td>**Total Term Semester Hours</td>
<td>15</td>
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</tbody>
</table>

| Total Program Semester Hours | 64 |

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu.

**CGS 1060C must be completed within the first 15 hours of Broward College coursework. Students who successfully complete the Student Technology Literacy Exam may select from the following list of courses to complete the degree requirement:

- ASC 1550 Aerodynamics,  
- ASC 2472 Human Factors in Flight and ATC  
- Or a flight course:  
  - ATF 1100, ATF 2200, ATF 2210, or ATF 2300

***Requires application and criminal background check. It is recommended students apply three (3) weeks prior to term.

Recommend students see technical advisor every term.
Program Description
Airport Management certificate is offered as a concentration of specific aviation operations and airport operations management courses combined with one business course to prepare students who are seeking employment in the airport operations field. The certificate provides insight into the day-to-day operational/managerial aspects of the airport environment and expands upon several topics concerning airport operations to include: investigation of incident and accidents, aviation safety on the ground, human factors in aviation, hazardous materials and the identification of hazards, passenger safety, land use, wildlife control, airport security, and overall working knowledge of airports.

Related Programs
- Professional Pilot Technology Associate in Science Major Code 2107
- Air Traffic Control Associate in Applied Science Major Code A039
- Aviation Operations Associate in Science Major Code 2105 (2105E)‡
- Airport Operations Management Associate in Science Major Code 21051‡
- Aviation Maintenance Management Associate in Science Major Code 2204
- Aviation Maintenance Management Associate in Applied Science Major Code A005
- Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
- Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
- Aviation Maintenance Management Associate in Applied Science Major Code A005
- Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
- Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
- Avionics Vocational Certificate Major Code 5299

‡ Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

The Airport Management Certificate is available to both US citizens and non-citizens

It is strongly recommended that students see an academic advisor or counselor every term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVM 2450</td>
<td>Airport Planning and Design</td>
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</tr>
<tr>
<td>ASC 2870</td>
<td>Aviation Safety</td>
<td>3</td>
</tr>
<tr>
<td>AVM 1440</td>
<td>Airport and Airline Security</td>
<td>3</td>
</tr>
<tr>
<td>AVM 2410</td>
<td>Airport Management</td>
<td>3</td>
</tr>
<tr>
<td>ASC 2320</td>
<td>Aviation Law and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>GEB 2430</td>
<td>Business Ethics</td>
<td>1</td>
</tr>
</tbody>
</table>

Total 16
**AVIATION INSTITUTE**

Aviation Maintenance Management Associate in Science Major Code 2204

**Program Description**

The Aviation Maintenance Management Associate in Science degree provides students with the academic skills to complement their technical training. The plan of study complies with the Federal Aviation Regulations Part 147 for an approved aviation maintenance technician's school, and, in addition, offers the advantages of college level academic and management courses.

Students seeking an Associate in Science degree in Aviation Maintenance Management must complete the general requirements for both the Airframe Mechanics and Power Plant Mechanics diplomas or possess a valid FAA A & P certificate.

**Related Programs**

Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Applied Science Major Code A039
Aviation Operations Associate in Science Major Code 2105
(2105E)
Airport Operations Management Associate in Science Major Code 21051

Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

**Entrance Requirements**

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>First Year Term I (General)</th>
<th>Second Year Term I (Power Plant I)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMT 1001 Basic Electricity</td>
<td>AMT 2300 Reciprocating Engines</td>
</tr>
<tr>
<td>AMT 1010 Aircraft Drawings</td>
<td>AMT 2312 Turbine Engines &amp; Turbine Engine</td>
</tr>
<tr>
<td>AMT 1020 Weight &amp; Balance</td>
<td>AMT 2453 Engine Cooling &amp; Exhaust Systems</td>
</tr>
<tr>
<td>AMT 1030 Fluid Lines &amp; Fittings</td>
<td>AMT 2490 Propellers and Unducted Fans</td>
</tr>
<tr>
<td>AMT 1040 Material Processes</td>
<td>AMT 2320 Engine Inspection</td>
</tr>
<tr>
<td>AMT 1050 Ground Operations and Servicing</td>
<td>AMT 2450 Engine Fuel Systems</td>
</tr>
<tr>
<td>AMT 1060 Cleaning and Corrosion Control</td>
<td>AMT 2451 Fuel Metering Systems</td>
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<tr>
<td>AMT 1070 Applied Mathematics</td>
<td>AMT 2460 Induction Systems</td>
</tr>
<tr>
<td>AMT 1081 FAR's, Forms and Privileges.</td>
<td>Total Term Semester Hours 12</td>
</tr>
<tr>
<td>AMT 1090 Basic Physics</td>
<td>Total Airframe &amp; Power Plant Credits</td>
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</tbody>
</table>

**Total Term Semester Hours 12**

<table>
<thead>
<tr>
<th>First Year Term II (Airframe I)</th>
<th>Term II (Power Plant II)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMT 1110 Aircraft Wood Structures</td>
<td>AMT 2410 Engine Fire Protection Systems</td>
</tr>
<tr>
<td>AMT 1115 Aircraft Covering</td>
<td>AMT 2435 Lubrication Systems</td>
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<tr>
<td>AMT 1120 Aircraft Finishes</td>
<td>AMT 2440 Ignition Systems</td>
</tr>
<tr>
<td>AMT 1130 Sheet Metal Structures</td>
<td>AMT 2475 Engine Cooling &amp; Exhaust Systems</td>
</tr>
<tr>
<td>AMT 1140 Aircraft Welding</td>
<td>AMT 2490 Propellers and Unducted Fans</td>
</tr>
<tr>
<td>AMT 1155 Assembly and Rigging</td>
<td>AMT 2320 Engine Inspection</td>
</tr>
<tr>
<td>AMT 1200 Landing Gear Systems</td>
<td>AMT 2450 Engine Fuel Systems</td>
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**Total Term Semester Hours 12**

<table>
<thead>
<tr>
<th>Term III (Airframe II)</th>
<th><strong>Total Semester Credits 22</strong></th>
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<tbody>
<tr>
<td>AMT 1160 Airframe Inspection</td>
<td><strong>Total Program Semester Hours 82</strong></td>
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<tr>
<td>AMT 1210 Hydraulic and Pneumatic System</td>
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<td>AMT 1220 Cabin Atmosphere Control Systems</td>
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<td>AMT 1230 Aircraft Instrument Systems</td>
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<td>AMT 1240 Communications and Navigation Systems</td>
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<td>AMT 1250 Aircraft Fuel Systems</td>
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<td>AMT 1260 Aircraft Electrical Systems</td>
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<td>AMT 1270 Position and Warning Systems</td>
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<tr>
<td>AMT 1285 Ice/Rain/Fire Protection</td>
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</table>

**Total Term Semester Hours 12**

Continued on next page
AVIATION INSTITUTE
Aviation Maintenance Management Associate in Science Major Code 2204 (cont.)

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu.

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Note: Students may enter the program during any term but must register for the AMT certificate courses as a block during a particular term. Enrollment for individual AMT courses will be permitted with special permission from the Associate Dean.

It is strongly recommended that students see an academic advisor or counselor every term.
AVIATION INSTITUTE
Aviation Maintenance Management Associate in Applied Science Major Code A005

Program Description
The Aviation Maintenance Management Program leads to the Associate in Applied Science degree and the Federal Aviation Administration Airframe and Power Plant Mechanic Certificates. The plan of study complies with the Federal Aviation Regulations Part 147 for an approved aviation maintenance technician's school, and, in addition, offers the advantages of college level academic and management courses.

Students seeking an Associate in Applied Science degree in Aviation Maintenance Management must complete the general requirements for both the Airframe Mechanics and Power Plant Mechanics diplomas or possess a valid FAA A&P certificate, as well as 23 hours of additional required college credits.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Applied Science Major Code A039
Aviation Operations Associate in Science Major Code 2105

First Year Term I (General)
*AMT 1001 Basic Electricity 2
*AMT 1010 Aircraft Drawings 1
*AMT 1020 Weight & Balance 1
*AMT 1030 Fluid Lines & Fittings 1
*AMT 1040 Material Processes 2
*AMT 1050 Ground Operations and Servicing 1
*AMT 1060 Cleaning and Corrosion Control 1
*AMT 1070 Applied Mathematics 1
*AMT 1081 FAR's, Forms and Privileges 1
*AMT 1090 Basic Physics 1
Total Term Semester Hours 12

First Year Term II (Airframe I)
*AMT 1110 Aircraft Wood Structures 1
*AMT 1115 Aircraft Covering 1
*AMT 1120 Aircraft Finishes 1
*AMT 1130 Sheet Metal Structures 4
*AMT 1140 Aircraft Welding 1
*AMT 1155 Assembly and Rigging 2
*AMT 1200 Landing Gear Systems 2
Total Term Semester Hours 12

Term III (Airframe II)
*AMT 1160 Airframe Inspection 1
*AMT 1210 Hydraulic and Pneumatic System 2
*AMT 1220 Cabin Atmosphere Control Systems 1
*AMT 1230 Aircraft Instrument Systems 1
*AMT 1240 Communications and Navigation Systems 1
*AMT 1250 Aircraft Fuel Systems 1
*AMT 1260 Aircraft Electrical Systems 3
*AMT 1270 Position and Warning Systems 1
*AMT 1285 Ice/Rain/Fire Protection 1

Total Term Semester Hours 12

Second Year Term I (Power Plant I)
*AMT 2300 Reciprocating Engines 5
*AMT 2312 Turbine Engines & Turbine Engine Troubleshooting 4
*AMT 2400 Engine Instrument Systems 1
*AMT 2420 Engine Electrical Systems 2
Total Term Semester Hours 12

Term II (Power Plant II)
*AMT 2410 Engine Fire Protection Systems 1
*AMT 2435 Lubrication Systems 1
*AMT 2440 Ignition Systems 2
*AMT 2450 Engine Fuel Systems 1
*AMT 2451 Fuel Metering Systems 2
*AMT 2460 Induction Systems 1
*AMT 2475 Engine Cooling and Exhaust Systems 1
*AMT 2490 Propellers and Unducted Fans 2
*AMT 2320 Engine Inspection 1
Total Term Semester Hours 12

Total Airframe & Power Plant Credits 60

Note: Students may enter the program during any term but must register for the AMT certificate courses as a block during a particular term. Enrollment for individual AMT courses will be permitted with special permission from the Program Manager.

Continued on next page
The following additional academic courses are required for students desiring the Associate in Science degree in Aviation Maintenance Management:

- *ENC 1101  English Composition  3
- ATT 1100  Aeronautical Science or
- ASC 1010  History of Aviation  3
- MNA 2345  Principles of Supervision  3
- SPC 1024  Introduction to Speech  3
- Elective  Humanities/Fine Arts  3
- Elective  Social/Behavioral Sciences  3
- *MTB 1310  Applied Mathematics or
- *MAT 1033  Intermediate Algebra  3
- HSC 1101C  Healthful Living  1

*Total Additional Credits  22
Program Description
The Airframe Maintenance certificate program leads to a Federal Aviation Administration (FAA) airframe license. The course of study complies with FAR 147 and the program is FAA certified. A completion of the program is contingent upon student satisfying the requirements of the test of Adult Basic Education (TABE) in math, reading, and language. The TABE test, if required, must be taken within six weeks of enrollment into the general portion of the program. These courses are offered in 400 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Associate Dean prior to enrollment.

Related Programs
- Professional Pilot Technology Associate in Science Major Code 2107
- Air Traffic Control Associate in Applied Science Major Code A039
- Aviation Operations Associate in Science Major Code 2105 (2105E)
- Airport Operations Management Associate in Science Major Code 21051
- Airport Management Certificate Major Code 6304
- Aviation Maintenance Management Associate in Science Major Code 2105
- Aviation Maintenance Management Associate in Applied Science Major Code A005
- Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
- Avionics Vocational Certificate Major Code 5299

5 Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡
- TABE‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

‡ The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math required by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

<table>
<thead>
<tr>
<th>BLOCK 1 (GENERAL)</th>
<th>AMT 0070C Applied Mathematics</th>
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<tbody>
<tr>
<td>AMT 0080C Basic Physics</td>
<td>26.25</td>
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<tr>
<td>AMT 0090C Aircraft Drawings</td>
<td>21.00</td>
<td></td>
</tr>
<tr>
<td>AMT 0050C Ground Operations and Servicing</td>
<td>31.50</td>
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</tr>
<tr>
<td>AMT 0040C Materials and Processes</td>
<td>84.00</td>
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<tr>
<td>AMT 0030C Fluid Lines and Fittings</td>
<td>26.25</td>
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<tr>
<td>AMT 0081C FARs, Forms, Privilege</td>
<td>42.00</td>
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<tr>
<td>AMT 0020C Weight and Balance</td>
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<tr>
<td>AMT 0060C Corrosion Control</td>
<td>26.25</td>
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<tr>
<td>AMT 0001C Basic Electricity</td>
<td>94.50</td>
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<tr>
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<table>
<thead>
<tr>
<th>BLOCK 2 (AIRFRAME I)</th>
<th>AMT 0130C Sheet Metal and Non-Metallic</th>
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<tbody>
<tr>
<td>AMT 0110C Wood Structures</td>
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<tr>
<td>AMT 0115C Aircraft Covering</td>
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<td>AMT 0120C Aircraft Finishes</td>
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<td>AMT 0140C Welding</td>
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<td>AMT 0155C Assembly and Rigging</td>
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<td>AMT 0200C Landing Gear Systems</td>
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<table>
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<tr>
<th>BLOCK 3 (AIRFRAME II)</th>
<th>AMT 0160C Airframe Inspection</th>
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<tr>
<td>AMT 0210C Hydraulic Pneumatics Systems</td>
<td>75</td>
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<tr>
<td>AMT 0220C Cabin Atmosphere Control Systems</td>
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<td>AMT 0230C Aircraft Instrument Systems</td>
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<td>AMT 0240C Comm/Nav. Systems</td>
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<td>AMT 0250C Aircraft Fuel Systems</td>
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<td></td>
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<tr>
<td>AMT 0260C Aircraft Electrical Systems</td>
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<tr>
<td>AMT 0270C Position and Warning</td>
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<tr>
<td>AMT 0285C Ice, Rain and Fire Protection</td>
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<tr>
<td><strong>Total Clock Hours</strong></td>
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</tr>
</tbody>
</table>

**Total Program Clock Hour** | **1,200**

It is strongly recommended that students see an academic advisor or counselor every term.
AVIATION INSTITUTE
Aircraft Powerplant Mechanics Vocational Certificate Major Code 5273

Program Description
The Powerplant Maintenance certificate program leads to a Federal Aviation Administration (FAA) Powerplant license. The course of study complies with FAR 147 and the program is FAA certified. A completion of the program is contingent upon student satisfying the requirements of the test of Adult Basic Education (TABE) in math, reading and language. The TABE test, if required, must be taken within six weeks of enrollment into the general portion of the program. These courses are offered in 400 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Associate Dean prior to enrollment.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Applied Science Major Code A039
Aviation Operations Associate in Science Major Code 2105 (2105E)‡
Airport Operations Management Associate in Science Major Code 21051‡
Airport Management Certificate Major Code 6304

BLOCK 1 (GENERAL)
AMT 0070C  Applied Mathematics    21.00
AMT 0090C  Basic Physics          26.25
AMT 0010C  Aircraft Drawings       21.00
AMT 0050C  Ground Operations and   31.50
           Servicing
AMT 0040C  Materials and Processes 84.00
AMT 0030C  Fluid Lines and Fittings 26.25
AMT 0081C  FARs, Forms, Privileges 42.00
AMT 0020C  Weight and Balance       27.25
AMT 0060C  Corrosion Control        26.25
AMT 0001C  Basic Electricity        94.50
Total Clock Hours                     400

BLOCK 2 (POWERPLANT I)
AMT 0300C  Reciprocating Engines   152.25
AMT 0312C  Turbine Engines         147
AMT 0400C  Engine Instrument Sys.   31.50
AMT 0420C  Engine Electrical and APUs 69.25
Total Clock Hours                     400

BLOCK 3 (POWERPLANT II)
AMT 0460C  Induction Systems       26.25
AMT 0450C  Engine Fuel Systems      21
AMT 0451C  Fuel Metering Systems    63
AMT 0440C  Ignition Systems         84
AMT 0435C  Lubrication Systems      42
AMT 0475C  Engine Cooling and Exhaust Systems 26.25
AMT 0410C  Engine Fire Protection   15.75
AMT 0490C  Propellers and Unducted Fans 89.25
AMT 0320C  Engine Inspection        32.50
Total Clock Hour                      400
Total Program Clock Hours             1,200

It is strongly recommended that students see an academic advisor or counselor every term.

‡ Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

Entrance Requirements
• HS Diploma or GED
• TABE‡
‡ The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math required by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.
Program Description
Broward College's Aviation Institute is proud to offer a 720 hour (two terms) certificate program in **Avionics**. It's a blended course that meets twice weekly (6:00 to 10:00 p.m.) on campus and three times a week online. On campus days will be dedicated to NIDA electronics labs, aircraft visits and projects. State-of-the-art NIDA electronics training equipment is utilized for this program and FCC testing is available on site. Avionics systems' testing is accomplished utilizing B727 aircraft.

Avionics systems are an integral part of aircraft design and have vastly increased aircraft capability. As a result, the growing use of technology in aviation is requiring technicians to spend more time on repairing electronic systems, such as computerized controls. The course content includes, but is not limited to, troubleshooting, repair and installation of airborne radio communications, radio navigation and radar equipment systems in accordance with regulatory and industry standards. Also included is instruction in basic AM and FM transmitters/receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

These courses are offered in 360 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Associate Dean prior to enrollment.

Related Programs
Professional Pilot Technology Associate in Science Major Code 2107
Air Traffic Control Associate in Applied Science Major Code A039
Aviation Operations Associate in Science Major Code 2105 (2105E)†
Airport Operations Management Associate in Science Major Code 21051‡
Airport Management Certificate Major Code 6304

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**Block I**

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<tr>
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<th>Course Title</th>
<th>Clock Hours</th>
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<tr>
<td>AVS 0090C</td>
<td>Avionics Fundamentals</td>
<td>180</td>
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<tr>
<td>AVS 0091C</td>
<td>Avionics Installer</td>
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<td><strong>360</strong></td>
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**Block II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>AVS 0092C</td>
<td>Avionics Communication Systems</td>
<td>180</td>
</tr>
<tr>
<td>AVS 0093C</td>
<td>Navigation/Support Systems Items</td>
<td>180</td>
</tr>
<tr>
<td><strong>Total Clock Hours</strong></td>
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<td><strong>360</strong></td>
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<tr>
<td><em>Program Clock Hours</em></td>
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<td><strong>720</strong></td>
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</table>

It is strongly recommended that students see an academic advisor or counselor every term.

NOTE: Total clock hours awarded for either of the three entry points is 1400 clock hours toward the total requirements of the 2120 clock hour PSAV certificate in Avionics.
### Program Description
The Associate in Applied Science degree in Biomedical Engineering Technology program, offered at North Campus, prepares students to become medical equipment technicians. Biomedical Engineering technicians are professionals responsible for installing, calibrating, maintaining and repairing biomedical equipment. Graduates also work in sales and supervision within the biomedical engineering field.

### Related Programs
Biomedical Engineering Technology Advanced Technical Certificate Major Code 4268

### General Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term I
- *EET 1015C* DC Circuits 5
- CET 1114C Digital Techniques 5
- *MTB 1325* Engineering Tech Mathematics I 4

**Total Term Semester Hours** 14

### First Year Term II
- *EET 1025C* AC Circuits 5
- *EET 1141C* Linear Techniques I 5
- *MTB 1326* Engineering Tech Mathematics II 4

**Total Term Semester Hours** 14

### First Year Term III, Session II
- *CET 1461C* Technical Computer Applications 3
- *CET 1117C* Microprocessors I 4

**Total Term Semester Hours** 7

### Second Year Term I
- SPC 1024 Intro to Speech Communication or
- SPC 1608 Public Speaking 3
- *EET 2142C* Linear Techniques II 4
- *HSC 1531* Medical Terminology 3
- *ENC 1101* Composition I 3

**Total Term Semester Hours** 13

### Second Year Term II
- *EST 2436C* Biomedical Instrumentation 3
- Elective Social/Behavioral Science 3
- *EST 2940* Biomedical Engineering 4
- Elective Humanities/Fine Arts 3

**Total Term Semester Hours** 13

**Total Program Semester Hours** 61

* Requires a pre- or co-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Technical courses should be taken in the sequence suggested unless approved by the Department Head.

This program of study applies to students who enroll in Broward College for the first time during the 2008-09 academic year. Other students should refer to their applicable catalog.

It is strongly recommended that students see an academic advisor or counselor every term.
**Program Description**
The Biomedical Engineering Technology Advanced Technical Certificate courses are offered to Associate in Applied Science Degree graduates of the Biomedical Engineering Technology Program. The Advanced Certificate will be awarded upon completion of the following 20 credit hours:

**Related Programs**
Biomedical Engineering Technology Associate Applied Science Degree Major Code A006

**Entrance Requirements**
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*EST 2438C</td>
<td>Adv. Biomedical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>CNT 2001</td>
<td>Local Area Networking</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1133C</td>
<td>PC Support-Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>*CTS 2131C</td>
<td>A+ Advanced†</td>
<td>3</td>
</tr>
<tr>
<td>*CET 2123C</td>
<td>Microprocessors II</td>
<td>4</td>
</tr>
<tr>
<td>*EET 2326C</td>
<td>Electronic Communications</td>
<td>4</td>
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</table>

**Total Semester Hours** 20

*Requires a pre- or co-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

It is strongly recommended that students see an academic advisor or counselor every term.
**Building Construction Technology**

**Associate in Science Major Code 2184**

### Program Description

The Building Construction Technology Program, offered at the Willis Holcombe Center (Downtown), prepares students for employment in the construction industry as assistant building inspectors, estimators, plan examiners, schedulers and project managers. The courses emphasize fundamentals and techniques of building construction.

### Entrance Requirements

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CGS 1060C</td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
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<tr>
<td>ARC 1056C</td>
<td>Digital Media</td>
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<tr>
<td>BCN 1272</td>
<td>Building Construction Plans Interpretation</td>
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<tr>
<td>BCT 1767</td>
<td>OHSA Standards</td>
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**Total Term Semester Hours** 14

### First Year Term II

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>BCN 1251C</td>
<td>Building Construction Drawing I</td>
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<tr>
<td>ARC 2461</td>
<td>Materials and Methods Construction</td>
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<tr>
<td>FFP 1510</td>
<td>Codes and Standards</td>
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<tr>
<td>BCT 2040</td>
<td>MEP Plans Interpretation</td>
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<tr>
<td>BCT 1770</td>
<td>Construction Estimating I</td>
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**Total Term Semester Hours** 15

### First Year Term III, Session II

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
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<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
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**Total Term Semester Hours** 6

It is strongly recommended that students see an academic advisor or counselor every term.

### Second Year Term I

<table>
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<tbody>
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<td>BCT 2760</td>
<td>Building Codes and Regulations</td>
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<td>BCN 2253C</td>
<td>Building Construction Drawing II</td>
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<td>BCN 2560</td>
<td>Mechanical and Electrical Systems</td>
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<tr>
<td>BCN 2614C</td>
<td>Construction Estimating II</td>
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<td>BCN 1706</td>
<td>Construction Documents</td>
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**Total Term Semester Hours** 15

### Second Year Term II

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<td>BCT 2787C</td>
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<td>SPC 1608</td>
<td>Public Speaking or</td>
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<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications</td>
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<tr>
<td>BCT 1743</td>
<td>Construction Law</td>
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<tr>
<td>GRA 2403</td>
<td>Project Management</td>
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<tr>
<td>BCT 2941L</td>
<td>Building Construction Field Experience</td>
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<tr>
<td>BCT 2710</td>
<td>Infrastructure Coordination</td>
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**Total Term Semester Hours** 14

**Total Program Semester Hours** 64

*Requires a pre- or co-requisite. See course description online at www.broward.edu

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**
**Program Description**
The Associate in Applied Science degree in International Business Management is designed for students seeking to enter management training and entry-level jobs in international businesses such as manufacturers, wholesalers, exporters, banks, freight forwarders, transportation firms, and importers.

**Related Programs**
- Business Administration Associate in Science Major Code 2119 (2119E)
- Business Management Technical Certificate Major Code 62671 (6267E) *
- Customer Service Specialization Technical Certificate Major Code 62672 *
- Sports Management Specialization Technical Certificate Major Code 62673 *
- Business Specialist Technical Certificate Major Code 6288 (6288E)
- Entrepreneurship Technical Certificate Major Code 62674 *

*Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

**General Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term I
<table>
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<tr>
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<td>*ECO 2013</td>
<td>Principles of Macroeconomics</td>
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<td>GEB 1011</td>
<td>Introduction to Business</td>
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<td>MAR 2141</td>
<td>International Marketing</td>
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<td>MTB 1103</td>
<td>Business Mathematics</td>
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### First Year Term II

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<td>Principles of Accounting I</td>
<td>3</td>
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<tr>
<td>#MAN 2604</td>
<td>International Business Environment</td>
<td>3</td>
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<tr>
<td>+Elective</td>
<td>Business or Co-op Work Experience</td>
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### First Year Term III

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<td>Composition I</td>
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<td><strong>CGS 1060C</strong></td>
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### Second Year Term I

<table>
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<td>BUL 2241</td>
<td>Business Law I</td>
<td>3</td>
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<tr>
<td>*ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>FIN 1100</td>
<td>Personal Finance</td>
<td>3</td>
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<tr>
<td>GEA 2000</td>
<td>World Geography</td>
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### Second Year Term II

<table>
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<tr>
<td>#FIN 2051</td>
<td>Finance of International Trade</td>
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<tr>
<td>GEB 2955</td>
<td>International Current Business Practices</td>
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</tr>
<tr>
<td>MAN 2021</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Introduction to Public Speaking</td>
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<td>§Foreign Language</td>
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### Second Year Term III

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<tr>
<td>+MTB 1310</td>
<td>Applied Mathematics</td>
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<td><strong>Total Program Semester Hours</strong></td>
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* Requires a pre- or co-requisite. See course description online.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

+ Business Electives are satisfied by taking one (1) of the following courses: ACG 2011, BUL 2242, MAR 1011, MKA 1021 or MKA 1511.

§Bi-yearly, North Campus only

§ Language level is determined by a placement test. Students may satisfy the 4 credit foreign language requirements by demonstrating proficiency through an examination. Contact the Business Department for additional information.

It is strongly recommended that students see an academic advisor or counselor every term.
BUSINESS ADMINISTRATION
Business Administration Associate in Science Major Code 2119 (2119E)

Program Description
The Associate in Science degree in Business Administration, offered at A. Hugh Adams Central, North, and Judson A. Samuels South Campuses, trains individuals to assume management or supervisory positions in business, industry, and government. It provides basic skills in a broad range of business functions including accounting, computer usage, management, and marketing. Successful completion of this program earns the student entry into any university in the State University System as part of the AS to BS program. All courses are available on-line.

Related Programs
International Business Management Specialization Associate in Applied Science Major Code A007

BUSINESS MANAGEMENT CERTIFICATES
Business Management Technical Certificate Major Code 62671 (6267E)
Customer Service Specialization Technical Certificate Major Code 62672
Sports Management Specialization Technical Certificate Major Code 62673

Business Specialist Technical Certificate Major Code 6288 (6288E)
Entrepreneurship Technical Certificate Major Code 62674

Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

General Education

<table>
<thead>
<tr>
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<td>*ENC 1101</td>
<td>Composition I</td>
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<td>*ENC 1102</td>
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<td>*MAC 1105</td>
<td>College Algebra</td>
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<td>*MAC 2233</td>
<td>Business Calculus</td>
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<td>SPC 1608</td>
<td>Introduction to Public Speaking</td>
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Total Semester Hours 24

Program Pre-requisites

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<thead>
<tr>
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<tr>
<td>ACG 2001</td>
<td>Principles of Accounting I</td>
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<td>*ACG 2011</td>
<td>Principles of Accounting II</td>
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<td>*ACG 2071</td>
<td>Managerial Accounting</td>
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<td>CGS 1060C</td>
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<td>*QMB 2100</td>
<td>Quantitative Mth. of Business</td>
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Pre-requisite Semester Hours 15

Professional Core:

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<tr>
<td>CGS 1510</td>
<td>Electronic Spreadsheet</td>
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</tr>
<tr>
<td>ECO 2220</td>
<td>Money and Banking</td>
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</tr>
<tr>
<td>FIN 1100</td>
<td>Personal Finance</td>
<td>3</td>
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<tr>
<td>MAN 2021</td>
<td>Introduction to Management</td>
<td>3</td>
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<td>MAR 1011</td>
<td>Principles of Marketing</td>
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<td>OST 1795</td>
<td>Telecommunications</td>
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<td>OST 2335</td>
<td>Communications in the Workforce</td>
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<tr>
<td>PHI 2600</td>
<td>Introduction to Ethics</td>
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</table>

Total Professional Core Semester Hours 25

Total Program Semester Hours 64

* Requires a pre-requisite or proper score on placement test. See course description online at www.broward.edu
*

# Course counts as a General Education and as a Program pre-requisite.

Transfer AS to BS:
- BS General Business – UCF, USF
- BS Business Administration and Management – FAMU, FAU, FGCU, FIU, FSU, UF, UNF, UWF

General Education 12 Semester Credit Hours
Courses Required to Complete Degree 56 Semester Credit Hours
Total University 68 Semester Hours

Note: Some courses may require a “C” or higher to transfer to some universities.

Note: The Major Code 2119E is for students who take this program on-line.

It is strongly recommended that students see an academic advisor or counselor every term.
BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT CERTIFICATES
Business Management Technical Certificate Major Code 62671 (6267E) *

Program Description
The Business Management Technical Certificate, offered at North, A. Hugh Adams Central, and Judson A. Samuels South Campuses, is a program designed to prepare students to become small business owners and managers. Upon successful completion of this program, the student can also proceed toward completion of an AS or AAS Degree in either Business Administration or Marketing Management. All courses are available on-line.

Related Programs
International Business Management Specialization Associate in Applied Science Major Code A007†
Business Administration Associate in Science Major Code 2119 (2119E)
Customer Service Specialization Technical Certificate Major Code 62672◊
Sports Management Specialization Technical Certificate Major Code 62673◊
Business Specialist Technical Certificate Major Code 6288 (6288E)
Entrepreneurship Technical Certificate Major Code 62674◊

*Students can earn a degree from A007 or A032, but not from both of these programs.
◊Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

BUL 2241 Business Law I 3
*CGS 1060C Computer and Internet Literacy 3
GEB 1011 Introduction to Business 3
MTB 1103 Business Mathematics 3
MAR 1011 Principles of Marketing 3
ACG 2001 Principles of Accounting I 3
OST 2335 Communications in the Workforce or 3
MNA 1134 Contact Center Operations 3
MNA 2345 Principles of Supervision 3

Total Certificate Semester Hours 24

*CGS1060C must be completed within the first 15 hours of Broward College coursework.

Note: The Major Code 6267E is for students who take this program on-line

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Customer Service Specialization Technical Certificate, offered at North, A. Hugh Adams Central, and Judson A. Samuels South Campuses, is designed to prepare students for immediate employment or advancement in customer service. The courses include materials that teach theory, develop skills and address practical applications for such employment. This certificate is designed to allow the student to participate in numerous activities that lead to strong employable skills. The courses in the certificate can also be applied toward an Associate in Science degree in Business Administration.

Related Programs
Business Administration Associate in Science Major Code 2119 (2119E)
Business Management Technical Certificate Major Code 62671 (6267E) ᵅ
Sports Management Specialization Technical Certificate Major Code 62673
Business Specialist Technical Certificate Major Code 6288 (6288E)
Entrepreneurship Technical Certificate Major Code 62674 ᵅ

Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Term I
MNA 1161 Introduction to Customer Service 3
MTB 1103 Business Mathematics 3
CGS 1060C Computer and Internet Literacy 3
OST 2335 Communications in the Workforce or
MNA 1134 Contact Center Operations 3
GEB 1011 Introduction to Business or
GEB 2949 Co-op-Specialization Customer Service 3
ACG 2001 Principles of Accounting I 3
BUL 2241 Business Law I 3
MNA 2345 Principles of Supervision 3

Total Certificate Semester Hours 24

It is strongly recommended that students see an academic advisor or counselor every term.
BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT CERTIFICATES
Sports Management Specialization Technical Certificate Major Code 62673

Program Description
The Sports Management Technical Certificate Program, offered at A. Hugh Adams Central Campus, is designed for students seeking employment or advancement in careers in recreation. Potential employers include city, state, and national parks and recreation centers; hospitals and rehabilitation centers; retirement centers; fitness centers; youth organizations; tourism industry (hotels, cruise ships, adventure tours, etc.). Upon successful completion of this program, the student can also proceed toward completion of AS degree in Recreation Technology.

Related Programs
International Business Management Specialization Associate in Applied Science Major Code A007†
Business Administration Associate in Science Major Code 2119 (2119E)
Business Management Technical Certificate Major Code 62671 (6267E)◊
Customer Service Specialization Technical Certificate Major Code 62672◊

Certificate Requirements
MNA 2345 Principles of Supervision 3
LEI 1000 Introduction to Recreation 3
HSC 2400 First Aid 3
PET 1303 Foundations of Exercise Science 3
HFT 2600 Hospitality Law 3
LEI 1700 Recreation for Special Groups 3
LEI 2401 Recreation Management 3
HLP 1081 Health Fitness 2
Elective Activity Course 1
Total Certificate Semester Hours 24

It is strongly recommended that students see an academic advisor or counselor every term.

Business Specialist Technical Certificate Major Code 6288 (6288E)
Entrepreneurship Technical Certificate Major Code 62674◊

†Students can earn a degree from A007 or A032, but not from both of these programs.
◊Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

Entrance Requirements
• HS Diploma or GED
• PERT†

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.
BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT CERTIFICATES
Business Specialist Technical Certificate Major Code 6288 (6288E)

Program Description
The purpose of these certificate programs is to prepare students for specialist or supervisory positions in a variety of business environments, or to provide supplemental training for persons previously or currently employed in management and supervisory occupations. Upon successful completion of this program, the student can proceed toward completion of an advanced certificate or an AS or AAS degree. The content of instruction includes the areas of planning, organizing, directing, and controlling of a business, with the emphasis on selected theories of management and decision making and the knowledge and understanding necessary for managing people and functions. All courses are available on-line.

Note: students will be awarded this certificate upon completing one of the following options (duplication is not allowed).

Related Programs
International Business Management Specialization Associate in Applied Science Major Code A007
Business Administration Associate in Science Major Code 2119 (2119E)

Business Management Technical Certificate Major Code 62671 (6267E)
Customer Service Specialization Technical Certificate Major Code 62672
Sports Management Specialization Technical Certificate Major Code 62673
Entrepreneurship Technical Certificate Major Code 62674

◊ Students can earn a certificate from 62671, 62672, 62673, or 62674, but not from two or more of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Option 1 International Business Option

The purpose of this certificate is to prepare students for employment in specialist or supervisory occupations in such areas as:
documentation/billing, international trade, traffic/transportation/warehousing, or other mid-management or specialist positions in the international business field.

ACG 2001 Principles of Accounting I 3
CGS 1060C Computer and Internet Literacy 3
MAN 2604 International Business Environment 3
MTB 1103 Business Math 3
Total Certificate Semester Hours 12

It is strongly recommended that students see an academic advisor or counselor every term.

Note: The Major Code 6288E is for students who take this program on-line.

Option 2: Small Business Management Option

The purpose of this certificate is to prepare students for employment in specialist or supervisory occupations in such areas as:
customer service, employee relations, merchandising, production, distribution, or other management positions.

ACG 2001 Principles of Accounting I 3
GEB 1011 Introduction to Business 3
MNA 2345 Principles of Supervision 3
OST 2335 Communications in the Workplace 3
Total Certificate Semester Hours 12

It is strongly recommended that students see an academic advisor or counselor every term.

Note: The Major Code 6288E is for students who take this program on-line.

Option 3: Logistics Specialist Option

The purpose of this specialization is to prepare students for initial employment with an occupational title or to provide supplemental training for persons previously or currently employed in these occupations with cross-functional skills necessary for planning, acquisition, flow and distribution of goods and services.

BUL 2241 Business Law I 3
TRA 1010 Transportation and Logistics 3
TRA 1156 Operations Management 3
TRA 1154 Supply Chain Management 3
Total Certificate Semester Hours 12

It is strongly recommended that students see an academic advisor or counselor every term.

Note: This course in this option count toward the Global Trade and Logistics Associate in Science Major Code 2205.
The Major Code 6288E is for students who take this program on-line.
Program Description
The Entrepreneurship Technical Certificate, offered at A. Hugh Adams Central, North, and Judson A. Samuels South Campuses, is a program designed to prepare students to become small business owners and managers. Upon successful completion of this program, the student can also proceed toward completion of an AS or AAS Degree in either Business Administration or Marketing Management.

Related Program
International Business Management Specialization Associate in Applied Science Major Code A007
Business Administration Associate in Science Major Code 2119 (2119E)
Business Management Technical Certificate Major Code 62671 (6267E)
Customer Service Specialization Technical Certificate Major Code 62672

Entreance Requirements
- HS Diploma or GED
- PERT†

* The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

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<td>Salesmanship</td>
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<tr>
<td>MNA 1821C</td>
<td>Introduction to E-Commerce</td>
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<tr>
<td>MAR 1011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Introduction to Management</td>
<td>3</td>
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<td>GEB 2112</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting 1 or</td>
<td>3</td>
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<tr>
<td>ACG 1003</td>
<td>Accounting Survey</td>
<td>3</td>
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<tr>
<td>* Elective</td>
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<td><strong>Total Certificate Semester Hours</strong></td>
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COMPUTER ENGINEERING TECHNOLOGY  
Computer Engineering Technology Associate in Applied Science Major Code A035

Program Description
The Associate in Applied Science degree in Computer Engineering Technology, offered at the North Campus, prepares students for employment in the fields of computer design and development, data acquisition, microcomputer systems analysis, programming and data communications. These courses may transfer to upper level BET and BSET programs. This program transfers directly to Nova Southeastern University. Students should consult the colleges to which they wish to transfer.

Entrance Requirements
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
*EET 1015C  DC Circuits  5
CET 1114C  Digital Techniques  5
*MTB 1325  Engineering Tech. Mathematics I  4
Total Term Semester Hours  14

First Year Term II
*EET 1025C  AC Circuits  5
*EET 1141C  Linear Techniques I  5
CTS 1133C  A+ Essentials (Session 2)  3
*CTS 2131C  A+ Advanced† (Session 4)  3
Total Term Semester Hours  16

First Year Term III
*CET 1117C  Microprocessors I  4
*CET 1461C  Technical Computer Applications  3
CTS2383  Managing A Server Network Operating System  3
Total Term Semester Hours  10

Second Year Term I
*ENC 1101  Composition I  3
*CET 2123C  Microprocessors II  4
CET 2486C  Networking Technology  2
SPC 1024  Intro to Speech Communications or SPC 1608  Public Speaking  3
Elective  Social/Behavioral Science  3
Total Term Semester Hours  15

Second Year Term II
*EET 2355C  Data Communications  3
Elective  Humanities/Fine Arts  3
*CET 2742C  Advanced Networking  3
*CTS 2120C  Security†  4
Total Term Semester Hours  13
Total Program Semester Hours  68

*Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu.

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Technical courses should be taken in the sequence suggested unless approved by the Department Head.

This program of study applies to students who enroll in Broward College for the first time during the 2008-09 academic year Other students should refer to their applicable catalog.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Computer Systems Specialist Associate in Applied Science Degree, offered at North and A. Hugh Adams Central Campus, is designed to prepare for the growing business market of microcomputer applications, Internet, security, programming, networking, and troubleshooting.

Related Programs
Tech Support Specialist Associate in Science Major Code 21493§
Help Desk Specialist Technical Certificate Major Code 62820°
Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823°
Support Technician Technical Certificate Major Code 6284

§ Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.
◊ Students can earn a certificate from either 62822 or 62823, but not from both programs.

Entrance Requirements
• HS Diploma or GED
• PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
ENC 1101  Composition I  3
MAC 1105  College Algebra   3
CGS 1060C Computer and Internet Literacy or 3
CS Elective Computer Science Elective (2) 3
CGS 1557C Internet Site Design 3
(1)Elective Business Elective 3
Total Term Semester Hours 15

First Year Term II
CTS 1133C A+ Essentials 3
*CTS 2131C A+ Practical† 3
*COPIP 1334C Introduction to C++ Programming 3
ENC 2210 Professional and Technical Writing 3
Elective Humanities/Fine Arts 3
Total Term Semester Hours 15

First Year Term III
CGS 1510 Electronic Spreadsheet or 3
CTS 1225C Microsoft Specialist: Advanced Excel 3
CTS 2383 Managing A Server Network Operating System 3
Total Term Semester Hours 6

Second Year Term I
CET 2486C Networking Technology 2
CGS 1540C Database Management or 3
CTS 1431C Microsoft Specialist: Advanced Access 3
*COP 2171C Visual Basic Programming 3
SPC 1024 Intro to Speech Communication or 3
SPC 1608 Public Speaking 3
Elective Elective Social/Behavioral Science 3
Total Term Semester Hours 14

Second Year Term II
*CET 2742C Advanced Networking 3
*CTS 1106 UNIX 3
*CTS 2120C Security† 4
EET 2355C Data Communications 3
Total Term Semester Hours 13
Total Program Semester Hours 63

* Requires a pre- or co-requisite. See course description online.
(1) Business Elective: Any course with ACG, BUL, GEB, MAN, or MAR.
(2) Computer Science Elective: Any course with a CDA, CEN, CET, CGS, CIS, COP, or CTS prefix

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

Technical courses should be taken in the sequence and term suggested unless approved by the Department's Associate Dean.

It is strongly recommended that students see an academic advisor or counselor each term.
COMPUTER INFORMATION TECHNOLOGY
Tech Support Specialist Associate in Science Major Code 21493

Related Programs
Computer Systems Specialist Associate in Science Major Code 21491
Help Desk Specialist Technical Certificate Major Code 62822
Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823
Support Technician Technical Certificate Major Code 6284

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

Students can earn a certificate from either 62822 or 62823, but not from both programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

General Education Requirements: 15 credits

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<td>Composition</td>
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<td>MAC 1105</td>
<td>College Algebra</td>
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<tr>
<td>SPC 1024</td>
<td>Introduction to Speech</td>
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</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
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<tr>
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Tech Support Specialist Core Courses: 30 credits

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<td>CTS 2131C</td>
<td>A+ Practical1</td>
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<tr>
<td>CTS 1134C</td>
<td>Network+</td>
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<tr>
<td>CTS 1851C</td>
<td>Certified Internet Webmaster Foundations2</td>
<td>4</td>
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<tr>
<td>CTS 2156C</td>
<td>Microsoft Enterprise Desktop Support3</td>
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<tr>
<td>CIS 1000C</td>
<td>Introduction to Computer Science</td>
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<td>CS Elective</td>
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<tr>
<td>ENC 2210</td>
<td>Professional &amp; Technical Writing4</td>
<td>3</td>
</tr>
<tr>
<td>GEB 1011</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Tech Support Specialist Areas of Specialization (Choose one): 18 credits

(1) Support Technician

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 1327C</td>
<td>Microsoft Windows Client</td>
<td>4</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>Computer Applications2</td>
<td>3</td>
</tr>
<tr>
<td>COP 1000C</td>
<td>Introduction to Computer Programming6 or</td>
<td>3</td>
</tr>
<tr>
<td>COP 1334C</td>
<td>Introduction to C++7</td>
<td></td>
</tr>
<tr>
<td>CTS 1111C</td>
<td>Linux+</td>
<td>4</td>
</tr>
<tr>
<td>CTS 2120C</td>
<td>Security+8</td>
<td>4</td>
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</table>

(2) Microsoft Office Specialist

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 1213C</td>
<td>Microsoft Specialist: Windows and Outlook for Business5</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1220C</td>
<td>Microsoft Specialist: Word2</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1225C</td>
<td>Microsoft Specialist: Excel3</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1230C</td>
<td>Microsoft Specialist: PowerPoint2</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1431C</td>
<td>Microsoft Specialist: Access5</td>
<td>3</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective**</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 63

**CGS 1060C or any course with a CIS, COP, or CTS prefix

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree

1 Prerequisite – CTS1133C (with a grade of C or higher)
2 Prerequisite – CGS1060C (with a grade of C or higher) or placement. CGS1060C must be completed within the first 15 hours of Broward College coursework
3 Prerequisites – CTS1327C or (CTS1213C and CTS1134C and CTS2131C) each with a grade of C or higher
4 Prerequisite – ENC 1101
5 Prerequisites – CTS 1133C and CTS 2131C (each with a grade of C or higher)
6 Prerequisite – MAT 0028
7 Prerequisite – MAT 1033 or MTB 1310
8 Prerequisite – CTS1134C (with a grade of C or higher)

It is strongly recommended that students see an academic advisor each term.
COMPUTER INFORMATION TECHNOLOGY
Help Desk Specialist Technical Certificate Major Code 62822◊

**Related Programs**
- Computer Systems Specialist Associate in Science Major Code 21491§
- Computer Information Technology Tech Support Specialist Associate in Science Option Major Code 21493§
- Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823◊
- Support Technician Technical Certificate Major Code 6284

◊ Students can earn a certificate from either 62822 or 62823, but not from both programs.

§ Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

**Entrance Requirements**
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 1133C</td>
<td>A+ Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2131C</td>
<td>A+ Practical†</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>Network+</td>
<td>4</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2156C</td>
<td>Microsoft Enterprise Desktop Support†</td>
<td>4</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Program Semester Hours** 18

It is strongly recommended that students see an academic advisor each term.

† Prerequisite – CTS 1133C (with a grade of C or higher)

§ Prerequisites – CTS1327C or (CTS1213C and CTS1134C and CTS2131C) each with a grade of C or higher

COMPUTER INFORMATION TECHNOLOGY
Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823◊

**Related Programs**
- Computer Systems Specialist Associate in Science Major Code 21491§
- Computer Information Technology Tech Support Specialist Associate in Science Option Major Code 21493§
- Help Desk Specialist Technical Certificate Major Code 62822◊
- Support Technician Technical Certificate Major Code 6284

◊ Students can earn a certificate from either 62822 or 62823, but not from both programs.

§ Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

**Entrance Requirements**
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**Required Courses**

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</tr>
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<td>CTS 1220C</td>
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<td>3</td>
</tr>
<tr>
<td>CTS 1225C</td>
<td>Microsoft Specialist: Excel†</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1230C</td>
<td>Microsoft Specialist: Powerpoint†</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1431C</td>
<td>Microsoft Specialist: Access†</td>
<td>3</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective†</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Semester Hours** 18

It is strongly recommended that students see an academic advisor each term.

† Prerequisite – CGS 1060C (with a grade of C or higher) or placement.

* CGS 1060C or any course with a CIS, COP or CTS prefix.
COMPUTER INFORMATION TECHNOLOGY
Support Technician Technical Certificate Major Code 6284

Related Programs
Computer Systems Specialist Associate in Science Major Code 21491
Computer Information Technology Tech Support Specialist Associate in Science Option Major Code 21493
Help Desk Specialist Technical Certificate Major Code 62822
Microsoft Office Specialist (MOS) Technical Certificate Major Code 62823

§ Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.
◊ Students can earn a certificate from either 62822 or 62823, but not from both programs.

Entrance Requirements
- HS Diploma or GED
- PERT

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Required Courses

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<td>A+ Essentials</td>
<td>3</td>
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<tr>
<td>CTS 2131C</td>
<td>A+ Practical†</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>Network+</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1327C</td>
<td>Microsoft Windows Client²</td>
<td>4</td>
</tr>
<tr>
<td>CET 1630C</td>
<td>Network Cabling Technologies</td>
<td>4</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>Computer Applications³</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2156C</td>
<td>Microsoft Enterprise Desktop Support³</td>
<td>4</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>Elective</td>
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</table>

Total Program Semester Hours 27

1 Prerequisite – CTS 1133C (with a grade of C or higher)
2 Prerequisites – CTS 1133C and CTS 2131C (each with a grade of C or higher)
3 Prerequisite – CGS 1060C (with a grade of C or higher) or placement
4 Prerequisites – CTS1327C or (CTS1213C and CTS1134C and CTS2131C) each with a grade of C or higher

It is strongly recommended that students see an academic advisor each term.
COMPUTER PROGRAMMING AND ANALYSIS

Computer Programming and Analysis Associate in Science Major Code 2195

Program Description
The Associate in Science Degree in Computer Programming & Analysis, offered at the A. Hugh Adams Central Campus, is designed to prepare students for the dynamic world of applications development, while also permitting the student to tailor the degree to their educational goals. Areas of choice include a wide variety of topic areas such as business and engineering programming, hardware and software support, computer applications, computer aided design, computer networking, database management, accounting, business, management, marketing, mathematics, physics, and statistics.

Related Programs
Sun Certified Java Specialist Technical Certificate Major Code 62388

Entrance Requirements
- HS Diploma or GED/Associate Degree
- PERT

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
CIS 1000C Introduction to Computer Science 3
COP 1334C Introduction to C++ Programming‡ 3
ENC 1101 Composition I 3
MAC 1105 College Algebra 3
SPC 1024 Intro to Speech Communication or SPC 1608 Intro to Public Speaking 3
Total Term Semester Hours 15

First Year Term II
CIS 2321C Systems Analysis & Design‡ 3
COP 1335C Intermediate C++ Programming³ 3
CGS 1540C Database Management or CTS 1431C Microsoft Specialist: Access⁴ 4
ENC 1102 Composition II or ENC 2210 Professional and Technical Writing³ 3
Hum / FA Humanities/Fine Arts Elective 3
Total Term Semester Hours 15

First Year Term III
COP 2361C Object-Oriented Analysis & Design⁵ 3
OOP Elec Object-Oriented Programming Elective* 3
Total Term Semester Hours 6

Second Year Term I
CIS 1513C Project Management⁴ 3
COP Elec Computer Programming Elective** 3
CS Elec Computer Science Elective*** 3
Elective Field Elective**** 3
Soc / Beh Social/Behavioral Science Elective 3
Total Term Semester Hours 15

Second Year Term II
COP Elec Computer Programming Elective** 3
CS Elec Computer Science Elective*** 3
CS Elec Computer Science Elective*** 3
Elective Field Elective**** 3
Total Term Semester Hours 12

Total Program Semester Hours 63

* OOP Electives: COP2360C or COP2800C

** COP Electives: Any course with a COP prefix or CTS1851C, CTS2403C, CTS2445C, CTS2446C, CTS2420C, CTS2423C, CTS2464C, CTS2465C, CTS2803C, CTS2852C, or CTS2857C

*** CS Electives: CGS1060C or any course with a CIS, COP, or CTS prefix

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

**** Field Electives: Any Computer Science (CS) Elective or ACG1003, ACG2001, ACG2011, BUL1241, EGS1001, ETD1320, ETD2350C, GEB1011, GEB2112, MAC2311, MAC2312, MAC2313, MAN2021, MAR1011, PHY1001, PHY2048, PHY2049, PHY2053, PHY2054, or STA2023

1 Prerequisite – MAT 1033 or MTB 1310
2 Pre/Co-requisite – CIS1000C
3 Prerequisite – CIS 1000C and COP 1334C (each with a grade of C or higher)
4 Prerequisite – COP 1334C (with a grade of C or higher); Pre/Co-requisite – CTS2321C
5 Placement
6 Prerequisite – ENC 1101

It is strongly recommended that students see an academic advisor every term.
### COMPUTER PROGRAMMING AND ANALYSIS

Sun Certified Java Specialist Technical Certificate Major Code 62388

#### Related Programs
- Computer Programming and Analysis Associate in Science Major Code 2195

#### Entrance Requirements
- HS Diploma or GED
- PERT‡

### Term I
- **COP 1334C** Introduction to C++ Programming¹ (Session 2) 3
- **COP 1335C** Intermediate C++ Programming² (Session 4) 3
- **CTS 1106** UNIX³ (Session 4) 3

**Total Term Semester Hours** 9

### Term II
- **COP 2361C** Object-Oriented Design and Programming⁴ 3
- **COP 2800C** Programming in Java³ 3

**Total Term Semester Hours** 6

### Term III
- **CTS 2464C** Sun: Advanced Java Programming⁴ 3

**Total Term Semester Hours** 3

**Total Program Semester Hours** 18

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

¹ Prerequisite – MAT 1033 or MTB 1310
² Prerequisite – COP 1334C
³ Prerequisite – COP 1335C
⁴ Prerequisites – CTS 1106 and COP 2361C and COP 2800C

It is strongly recommended that students see an academic advisor or counselor every term.
INSTITUTE OF PUBLIC SAFETY
CRIMINAL JUSTICE TECHNOLOGY ASSOCIATE IN SCIENCE
Criminal Justice Emphasis Major Code 21101
Crime Scene Emphasis Major Code 21102
Polygraph Emphasis Major Code 21104

Core Courses
An AS degree in Criminal Justice may be earned by completing the General Education and Criminal Justice Core Requirements and Specialization courses indicated in the option selected. The associate degree does not qualify students for state certification as corrections or law enforcement officers. A student must complete the Florida Criminal Justice Standards and Training Commission Basic Recruit Training Program for state certification.

Related Programs
Criminal Justice Emphasis Major Code 21101
Crime Scene Emphasis Major Code 21102

Core Courses (Required for all students):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II or Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>Area 4</td>
<td>Mathematics/Science</td>
<td>3</td>
</tr>
<tr>
<td>PHI 2600</td>
<td>Ethics (recommended) or Area 2</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>National Government or State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>General Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>** CGS 1060C</td>
<td>Computer and Internet Literacy or Elective (Any college-level)</td>
<td>3</td>
</tr>
</tbody>
</table>

**CGS1060C is required unless the student successfully passes the basic student technology literacy test administered by BC. CGS1060C must be completed within the first 15 hours of Broward College coursework.

Students must fulfill a mathematics competency exit requirement through placement test or coursework.

Criminal Justice Emphasis Major Code 21101

Twelve (12) Criminal Justice elective credits to be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJC 2000</td>
<td>Introduction to Corrections</td>
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</tr>
<tr>
<td>CJC 2162</td>
<td>Probation and Parole Procedures</td>
<td>3</td>
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<td>*CCJ 2001</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>*CCJ 2933</td>
<td>Corrections Practicum</td>
<td>3</td>
</tr>
<tr>
<td>CJE 1300</td>
<td>Correctional Law</td>
<td>3</td>
</tr>
<tr>
<td>CJE 2170</td>
<td>Comparative World Police</td>
<td>3</td>
</tr>
<tr>
<td>CJE 2400</td>
<td>Police Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>CJE 1100</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJE 1103</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CJE 2640</td>
<td>Introduction to Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>DSC 1002</td>
<td>Terrorism &amp; Domestic Security</td>
<td>3</td>
</tr>
<tr>
<td>FES 2014</td>
<td>Intro to Emergency Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Criminal Justice Elective Credits 12

Total Program Semester Hours 64

+Electives Credits to be selected from CCJ 2949, Criminal Justice Co-op and/or any transferable any College Level Courses.

*Requires a pre- or co-requisite. See course description online at www.broward.edu.

It is strongly recommended that students see an academic advisor or counselor every term.
### INSTITUTE OF PUBLIC SAFETY

#### CRIMINAL JUSTICE TECHNOLOGY ASSOCIATE IN SCIENCE

**Crime Scene Emphasis Major Code 21102**

5. Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

**Core Courses (see above):** ................................................................. 39

<table>
<thead>
<tr>
<th>Specialization Options- Crime Scene Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJE 2580</td>
</tr>
<tr>
<td>CJE 2722</td>
</tr>
<tr>
<td>CJE 2723</td>
</tr>
<tr>
<td>CJE 2724</td>
</tr>
<tr>
<td>CJE 2725</td>
</tr>
<tr>
<td>CJE 2726</td>
</tr>
<tr>
<td><strong>Total Crime Scene Emphasis Semester Hours</strong></td>
</tr>
</tbody>
</table>

| Total Program Semester Credits | **64** |

*Requires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

**Entrance Requirements**
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

It is strongly recommended that students see an academic advisor or counselor every term.

### Polygraph Emphasis Major Code 21104

5. Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

**Core Courses (Required for all students see above)** 39

<table>
<thead>
<tr>
<th>Specialization Options- Polygraph Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJE 2580</td>
</tr>
<tr>
<td>CJE 2722</td>
</tr>
<tr>
<td>CJE 2723</td>
</tr>
<tr>
<td>CJE 2724</td>
</tr>
<tr>
<td>CJE 2725</td>
</tr>
<tr>
<td>CJE 2726</td>
</tr>
<tr>
<td><strong>Total Polygraph Emphasis Semester Hours</strong></td>
</tr>
</tbody>
</table>

| General Education Elective Credits to be selected from college level courses in Areas 2-5 | 6 |
| **Total Program Semester Hours** | **64** |

*Requires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

**Entrance Requirements**
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

It is strongly recommended that students see an academic advisor or counselor every term.
Upon successful completion of the Correctional Probation Officer Academy, a student is eligible to take the state certification exam to become a certified Florida Correctional Probation Officer. A person must be hired or sponsored by a correction agency before being enrolled in the program. To find out what tests you must take before you can be hired or sponsored by a corrections agency; contact the Testing Center at the Institute of Public Safety at (954) 201-6931. A person who is accepted into the Correctional Probation Officer Academy Program will take the following ten post-secondary adult vocational courses:

**Related Programs**

*Criminal Justice Technology Associate in Science:

- Criminal Justice Emphasis Major Code 21101
- Crime Scene Emphasis Major Code 21102
- Polygraph Emphasis Major Code 21104

*Criminal Justice Certificates (restricted admission)*

- Police Academy Major Code 5269
- Corrections Officer Academy Major Code 5270
- Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278
- Correctional Probation Officer Cross-over Training to Florida CMS Law Enforcement Major Code 5296
- Police Service Aide Academy Major Code 5271

*Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.*

**Entrance Requirements**

- HS Diploma or GED
- **BAT**
  - **The BAT—basic abilities test administered in the criminal justice testing center.**

---

Students attend the Correctional Probation Academy program Monday through Friday, 8:00 AM to 5:00 PM for approximately twelve weeks. In accordance with State law, students must score 80 percent or higher on all tests given in the above courses. Students must also maintain excellent attendance, not missing more than 10% of scheduled class sessions, and must follow the Academy Rules of Conduct.

**Total Clock Hours** 465
Program Description

A person must be hired or sponsored by a corrections or law enforcement agency before being enrolled in any of these certificate programs. For further information on these certificate programs, contact the Testing Center at the Institute of Public Safety at (954) 201-6931.

Upon successful completion of the Police Academy, a student is eligible to take the State Certification exam to become a certified Florida Law Enforcement Officer. A person must be hired or sponsored by a law enforcement agency before being enrolled in the Police Academy. To find out what tests you must take before you can be hired or sponsored by a law enforcement agency; contact the Testing Center at the Institute of Public Safety at (954) 201-6931.

Related Programs
- Criminal Justice Technology Associate in Science:
  - Criminal Justice Emphasis Major Code 21101
  - Crime Scene Emphasis Major Code 21102
  - Polygraph Emphasis Major Code 21104
- Criminal Justice Certificates (restricted admission)
  - Correctional Probation Officer Academy Major Code 5282
  - Corrections Officer Academy Major Code 5270
  - Correctional Officer Cross-over to Florida CMS Law Enforcement Major Code 5278
  - Correctional Probation Officer Cross-over Training to Florida CMS Law Enforcement Major Code 5296
- Police Service Aide Academy Major Code 5271

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Entrance Requirements
- HS Diploma or GED
- **BAT**

** The BAT-basic abilities test-administered in the criminal justice testing center.

Students attend the Police Academy Monday through Friday, 8:00 AM to 5:00 PM for approximately twenty weeks. In accordance with State law, students must score 80 percent or higher on all tests given in the above courses. Students must also maintain excellent attendance and cannot miss more than 10 percent of scheduled class sessions. Students will wear uniforms and must follow the Police Academy Rules of Conduct.
INSTITUTE OF PUBLIC SAFETY
CRIMINAL JUSTICE CERTIFICATES
Corrections Officer Academy Major Code 5270

Program Description

Upon successful completion of the Correctional Officer Academy, a student is eligible to take the State Certification exam to become a certified Florida Corrections Officer. Correction officers typically are employed in state prisons or county and city jails or stockades. A person must be hired or sponsored by a corrections or law enforcement agency before being enrolled in the Corrections Academy. For additional information, please contact us at 954-201-6792, 954-201-6793 or 954-201-6396.

Related Programs
Criminal Justice Technology Associate in Science:
- Criminal Justice Emphasis Major Code 21101
- Crime Scene Emphasis Major Code 21102
- Polygraph Emphasis Major Code 21104
Criminal Justice Certificates (restricted admission):
- Correctional Probation Officer Academy Major Code 5282
- Police Academy Major Code 5269
- Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278
- Correctional Probation Officer Cross-over Training to Florida CMS Law Enforcement Major Code 5296
- Police Service Aide Academy Major Code 5271

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Entrance Requirements
- **HS Diploma or GED**
- **BAT**

**The BAT-basic abilities test-administered in the criminal justice testing center.**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK 0270</td>
<td>Criminal Justice Legal 1</td>
<td>46</td>
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<tr>
<td>CJK 0285</td>
<td>Criminal Justice Legal 2</td>
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<tr>
<td>CJK 0286</td>
<td>Criminal Justice Communications</td>
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<td>CJK 0100</td>
<td>Interpersonal Skills 1</td>
<td>62</td>
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<tr>
<td>CJK 0031</td>
<td>First Aid for Criminal Justice Officers</td>
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<td>CJK 0040</td>
<td>Criminal Justice Firearms</td>
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<td>CJK 0051</td>
<td>Criminal Justice Defensive Tactics</td>
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<td>CJK 0095</td>
<td>Criminal Justice Special Topics 20</td>
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<td>CJK 0101</td>
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<td>Emergency Preparedness</td>
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<td>CJK 0102</td>
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<tr>
<td>CJK 0280</td>
<td>Criminal Justice Officer Physical Fitness Training</td>
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</table>

**Total Clock Hours** 552

Students attend the Corrections Academy Monday-Friday, 7:45am-5 pm.
A student may be required to be sponsored or hired by a corrections or law enforcement agency before being enrolled in any of these certificate programs. For further information on these certificate programs, contact the Testing Center at the Institute of Public Safety at (954) 201-6931.
CRIMINAL JUSTICE CERTIFICATES

Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278

Program Description

A person must be hired or sponsored by a corrections or law enforcement agency before being enrolled in any of these certificate programs. For further information on these certificate programs, contact the Testing Center at the Institute of Public Safety at (954) 201-6931.

Upon successful completion of the Law Enforcement Officer-crossover from Correctional Officer program, a currently certified Corrections Officer is eligible to take the state certification exam to become a certified Florida Law Enforcement Officer. A person must be hired or sponsored by a law enforcement agency before being enrolled in the program. To find out what tests you must take before you can be hired or sponsored by a law enforcement agency. Contact the Testing Center at the Institute for Public Safety at (954) 201-6931.

Related Programs

Criminal Justice Technology Associate in Science:
- Criminal Justice Emphasis Major Code 21101
- Crime Scene Emphasis Major Code 21105
- Polygraph Emphasis Major Code 21104

Criminal Justice Certificates (restricted admission)
- Correctional Probation Officer Academy Major Code 5282
- Police Academy Major Code 5269
- Correctional Probation Officer Cross-over Training to Florida CMS Law Enforcement Major Code 5296
- Police Service Aide Academy Major Code 5271

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Entrance Requirements

- HS Diploma or GED
- **BAT**

**BAT**- basic abilities test administered in the criminal justice testing center.

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<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<td>Correctional Cross-over to Law Enforcement Introduction and Legal</td>
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<td>Correctional Cross-over to Law Enforcement Human Issues</td>
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<td>Dart-Firing Stun Gun</td>
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<td>CJK 0061</td>
<td>Patrol 1</td>
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<td>CJK 0062</td>
<td>Patrol 2</td>
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<td>CJK 0071</td>
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<td>CJK 0076</td>
<td>Crime Scene Investigations</td>
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<tr>
<td>CJK 0082</td>
<td>Traffic Stops</td>
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<tr>
<td>CJK 0083</td>
<td>DUI Traffic Stops</td>
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<td>CJK 0086</td>
<td>Traffic Crash Investigations</td>
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</tr>
<tr>
<td>CJK 0020</td>
<td>CMS Law Enforcement Vehicle Operations</td>
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Total Clock Hours: 457

Students attend the program Monday through Friday, either 8:00 AM to 12:00 PM or 6:00 PM to 10:00 PM for approximately 22 weeks. In accordance with State law, students must score 80 percent or higher on all tests given in the above courses. Students must also maintain excellent attendance and cannot miss more than 10 percent of scheduled class sessions. Students will wear uniforms and must follow the Police Academy Rules of Conduct.
INSTITUTE OF PUBLIC SAFETY
CRIMINAL JUSTICE CERTIFICATES
Correctional Probation Officer Cross-Over to Florida CMS Law Enforcement Major Code 5296

Program Description

A person must be hired or sponsored by a corrections or law enforcement agency before being enrolled in any of these certificate programs. For further information on these certificate programs, contact the Testing Center at the Institute of Public Safety at (954) 201-6931.

Upon successful completion of the Correctional Probation Officer Crossover to Law Enforcement Officer program, the student will be eligible to take the Florida Department of Law Enforcement, state officer certification exam to become a certified Florida Law Enforcement Officer. For any questions regarding any of our Institute of Public Safety Programs, please contact us at: 954-201-6792, or 954-201-6793 or 954-201-6396.

Related Programs
Criminal Justice Technology Associate in Science:
  Criminal Justice Emphasis Major Code 21101
  Crime Scene Emphasis Major Code 21102
  Polygraph Emphasis Major Code 21104
  Criminal Justice Certificates (restricted admission)
  Correctional Probation Officer Academy Major Code 5282
  Police Academy Major Code 5269
  Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278
  Police Service Aide Academy Major Code 5271

5 Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Entrance Requirements
- HS Diploma or GED
- **BAT

** The BAT-basic abilities test-administered in the criminal justice testing center.

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<th>Clock Hours</th>
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<td>CJK0223</td>
<td>Correctional Cross-over to Law Enforcement Human Issues</td>
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<td>CJK0422</td>
<td>Dart-Firing Stun Gun</td>
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<td>CJK0061</td>
<td>Patrol 1</td>
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</tr>
<tr>
<td>CJK0062</td>
<td>Patrol 2</td>
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<td>CJK0071</td>
<td>Criminal Investigations</td>
<td>56</td>
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<td>CJK0076</td>
<td>Crime Scene Investigations</td>
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<td>CJK0082</td>
<td>Traffic Stops</td>
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<td>CJK0083</td>
<td>DUI Traffic Stops</td>
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<td>CJK0086</td>
<td>Traffic Crash Investigations</td>
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<td>CJK0020</td>
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<tr>
<td>CJK0040</td>
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</table>

**Total Clock Hours** = 529

Students attend the program Monday through Friday, either 8:00 AM to 12:00 PM or 6:00 PM to 10:00 PM. In accordance with State law, students must score 80 percent or higher on all tests given in the above courses. Students must also maintain excellent attendance and cannot miss more than 10 percent of scheduled class sessions. Students will wear uniforms and must follow the Police Academy Rules of Conduct.
Program Description
The Police Service Aide Academy trains students who are civilian employees of law enforcement agencies. A Police Service Aide typically performs police duties that relate to non-criminal activities, such as parking enforcement or traffic accident investigations. The Police Service Aide Academy meets the basic training requirements established by the Florida Criminal Justice Standards and Training Commission. A person must be hired by a law enforcement agency before he/she can be enrolled in the academy. A person who is accepted into the Police Service Aide Academy will take the following post-secondary adult vocational courses.

Related Programs
Criminal Justice Technology Associate in Science:
- Criminal Justice Emphasis Major Code 21101
- Crime Scene Emphasis Major Code 21102
- Polygraph Emphasis Major Code 21104
Criminal Justice Certificates (restricted admission)
- Correctional Probation Officer Academy Major Code 5282
- Police Academy Major Code 5269
- Corrections Officer Academy Major Code 5270
- Correctional Officer Cross-Over to Florida CMS Law Enforcement Major Code 5278
- Correctional Probation Officer Cross-over Training to Florida CMS Law Enforcement Major Code 5296

Students can earn a degree from 21101, 21102, or 21104, but not from two or more of these emphases.

Entrance Requirements
- HS Diploma or GED
- TABE

The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math required by the program. The TABE test must be taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

Students attend the Police Service Aide Academy Monday through Friday, 8:00 AM to 5:00 PM for approximately five and half weeks. In accordance with State law, students must score 75 percent to successfully complete the Academy. Students must also maintain excellent attendance and cannot miss more than 10 percent of scheduled class sessions. Students will wear uniforms and must follow Police Service Academy Rules of Conduct.
CULINARY ARTS MANAGEMENT
Culinary Arts Management Associate in Science Major Code 2203

Program Description
The Associate in Science degree in Culinary Arts Management emphasizes the development of practical culinary and management skills. The program is a joint program between Broward College and Broward Technical Centers (Atlantic, McFatter, and Sheridan Technical Centers). Students who enroll in this program are required to complete the Commercial Foods & Culinary Arts program at one of the Broward Technical Centers, in which 42 course college credits will be awarded toward the Culinary Arts Management AS degree at Broward College. Students are also required to complete the Broward College courses listed below.

Upon successful completion of all required course work at Broward College and a Broward Technical Center students will be awarded an AS degree in Culinary Arts Management.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

For additional information contact the Program Manager at 954-201-6710

General Education Courses
- ENC 1101 English Composition I 3
- SPC 1024 Intro to Speech Communication 3
- Elective Humanities/Fine Arts 3
- ECO2013 Microeconomics or 3
- PSY2012 Psychology 3
- MAC 1105 College Algebra 3

Total General Education Credits 15

Required BC Courses
- GEB 1011 Introduction to Business 3
- HFT 2460 Financial Management 3
- GEB 2430 Business Ethics 1

Total Required BC Credits 7

Technical Course Requirements
- HFT1210 Supervisory Management 3
- OST2335 Communications in the Workforce 3
- FOS2201 Food Service Sanitation & Safety 3
- FSS2251 Food & Beverage Management 3
- FSS1203C Quantity of Food Production I 3
- FSS1246C Baking & Pastries I 3
- FSS1284 Catering & Banquet Management 3
- FSS2204C Quantity Food Production II 3
- FSS2247C Baking & Pastries II 3
- FSS1240C Classical Cuisine 3
- FSS2242C International & Regional Foods 3
- FSS2500 Food & Beverage Cost 3
- FSS2248C Garde Manger 3
- FSS2205C Quantity Food Production III 3

Total Technical Course Credits 42
Total AS Degree Credits 64

Special Note:
Placement in English, Reading, Math, and Computer Literacy is required.

For the AS program, forty two (42) credits will be awarded to students who successfully complete the Commercial Foods and Culinary Arts program at the Broward Technical Centers: Atlantic Technical Center 754-321-5100, McFatter Technical Center 954-321-5700, or Sheridan Technical Center 754-321-5400.
DATABASE TECHNOLOGY
Oracle Database Administrator Associate in Science Major Code 21492

Program Description
The Oracle Database Administrator Associate in Applied Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as database administrators. It is designed for students seeking to successfully complete the Oracle Certified Professional (OCP) Certification in Database Administration.

Related Programs
Oracle Database Developer Associate in Science Major Code 21134
Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
CIS 1000C  Introduction to Computer Science  3
COP 1334C  Introduction to C++ Programming 3
ENC 1101  Composition 3
MAC 1105  College Algebra 3
Total Term Semester Hours 12

First Year Term II
CIS 2321C  Systems Analysis & Design 3
COP 1335C  Intermediate C++ Programming 3
COP 2700C  Database Design & Programming SQL 3
Hum / FA  Humanities/Fine Arts Elective 3
SPC 1024  Intro to Speech Communications or SPC 1608  Intro to Public Speaking 3
Total Term Semester Hours 15

First Year Term III
CTS 1106  Unix 3
CTS 1134C  Network + 4
Total Term Semester Hours 7

Second Year Term I
CTS 2441C  Oracle DBA: Database Admin 4
CTS 2442C  Oracle DBA: Network Admin x‡ 4
CTS 1111C  Linux+ 4
Soc/ Beh  Social/Behavioral Science Elective 3
Total Term Semester Hours 15

Second Year Term II
COP 2361C  Object-Oriented Analysis & Design 3
COP 2800C  Programming in Java 3
CTS 2444C  Oracle DBA: Performance Tuning 4
CS Elective  Computer Science Elective 4
Total Term Semester Hours 14
Total Program Hours 63

* Computer Science (CS) Electives: CGS 1060C or any course with a CIS, COP, or CTS prefix

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.

Prerequisite – MAT 1033 or MTB 1310
1 Prerequisite – COP 1334C (with a grade of C or higher)
2 Prerequisite – COP 2071C (with a grade of C or higher)
3 Prerequisite – CTS 2441C and CTS 1106 (each with a grade of C or higher)
4 Prerequisites – CTS 2441C and CTS 1106 (each with a grade of C or higher)
5 Prerequisites – CIS 2321C and COP 1335C (each with a grade of C or higher)
6 Prerequisites – CIS 2321C and COP 1335C (each with a grade of C or higher); Pre/Co-requisite – COP 2361C
7 Prerequisites – CTS 2442C and CTS 1111C (each with a grade of C or higher)

It is strongly recommended that students see an academic advisor every term.
**Program Description**
The Oracle Database Developer Associate in Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as database application developers. It is designed for students seeking to successfully complete the Oracle Certified Professional (OCP) Certification in Database Development.

**Related Programs**
- Oracle Database Administrator Associate in Science Major Code 21492
- Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494
- Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
- Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**First Year Term I**
- CIS 1000C Introduction to Computer Science 3
- COP 1334C Introduction to C++ Programming¹ 3
- ENC 1101 Composition I 3
- MAC 1105 College Algebra 3

**Total Term Semester Hours** 12

**First Year Term II**
- CIS 2321C Systems Analysis & Design² 3
- COP 1335C Intermediate C++ Programming² 3
- COP 2700C Database Design & Programming SQL² 3
- Hum / FA Humanities/Fine Arts Elective 3
- SPC 1024 Intro to Speech Communications or SPC 1608 Intro to Public Speaking 3

**Total Term Semester Hours** 15

**First Year Term III**
- CTS 2445C Oracle Developer: Develop PL/SQL Program Units³ 4
- CTS 2446C Oracle Forms: Build Internet Applications⁴ 4

**Total Term Semester Hours** 6

**Second Year Term I**
- COP 2361C Object-Oriented Analysis & Design⁵ 3
- COP 2800C Programming in Java⁶ 3
- CS Elective Computer Science Elective 3
- GEB 1011 Introduction to Business 3
- Soc / Beh Social/Behavioral Science Elective 3

**Total Term Semester Hours** 15

**Second Year Term II**
- CIS 1513C Project Management⁷ 3
- CS Elective Computer Science Elective* 3
- CS Elective Computer Science Elective* 3
- CS Elective Computer Science Elective* 4

**Total Term Semester Hours** 13

**Total Program Semester Hours** 63

* Computer Science (CS) Electives: CGS 1060C or any course with a CIS, COP, or CTS prefix
¹ Prerequisite – MAT 1033 or MTB 1310
² Prerequisite – COP 1334C (with a grade of C or higher)
³ Prerequisites – CIS 2321C and COP 2071C (each with a grade of C or higher)
⁴ Prerequisite – CIS 2365C and COP 2071C (with a grade of C or higher)
⁵ Prerequisite – CIS 2321C and COP 1353C (each with a grade of C or higher)
⁶ Prerequisites – CIS 2321C and COP 1353C (each with a grade of C or higher); Pre/Co-requisite – COP 2361C
⁷ Prerequisite – CGS 1060C (with a grade of C or higher) or Placement

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

It is strongly recommended that students see an academic advisor every term.
DATABASE TECHNOLOGY
Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494

Related Programs
Oracle Database Administrator Associate in Science Major Code 21492
Oracle Database Developer Associate in Science Major Code 21134
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Related Programs
Oracle Database Administrator Associate in Science Major Code 21492
Oracle Database Developer Associate in Science Major Code 21134
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Related Programs
Oracle Database Administrator Associate in Science Major Code 21492
Oracle Database Developer Associate in Science Major Code 21134
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

Entrance Requirements
• HS Diploma or GED
• PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I

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<tr>
<td>CTS 1133C</td>
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<tr>
<td>*CTS 2131C</td>
<td>A+ Advanced† (Session 4)</td>
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</tr>
<tr>
<td>*COP 1334C</td>
<td>Introduction to C++ Programming†</td>
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<tr>
<td>ENC 1101</td>
<td>Composition</td>
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<tr>
<td>*MAC 1105</td>
<td>College Algebra</td>
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Total Term Semester Hours 15

First Year Term II

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<td>CTS 1134C</td>
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<tr>
<td>CTS 1431C</td>
<td>Microsoft Specialist: Advanced Access or</td>
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<td>CGS 1540C</td>
<td>Database Management</td>
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<td>*CIS 2321C</td>
<td>Systems Analysis Design</td>
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<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications or</td>
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<tr>
<td>SPC 1608</td>
<td>Introduction to Public Speaking</td>
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Total Term Semester Hours 13

First Year Term III

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<td>Microsoft Windows Professional</td>
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<tr>
<td>*CTS 1328C</td>
<td>Implementing Microsoft Windows Server*</td>
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Total Term Semester Hours 8

Second Year, Term I

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<tr>
<td>*CTS 1347C</td>
<td>Implementing Windows Infrastructure†</td>
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<td>*CTS 1432C</td>
<td>Querying Microsoft SQL Server with Transact-SQL</td>
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Total Term Semester Hours 13

Term II

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<td>*CTS 2434C</td>
<td>Programming a Microsoft SQL Server Database†</td>
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<td>Soc / Beh</td>
<td>Social / Behavioral Science Elective</td>
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</table>

Total Term Semester Hours 14

Total Program Semester Hours 63

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

† Requires a pre- or co-requisite or proper score on the placement test. See course description online at www.broward.edu

** Any course with a CDA, CEN, CET, CGS, CIS, or COP prefix, except CGS1000, CGS1060C, CGS1061C, or CGS1570

It is strongly recommended that students see an academic advisor or counselor every term.
DATABASE TECHNOLOGY
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386

Related Programs
Oracle Database Administrator Associate in Science Major Code 21492
Oracle Database Developer Associate in Science Major Code 21134
Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494
Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

Required Courses
CIS 1000C Introduction to Computer Science 3
COP 1334C Introduction to C++ Programming 3
COP 2700C Database Design & Programming SQL 3
CTS 1106 Unix 3
CTS 1111C Linux+ 4
CTS 1134C Network + 4
CTS 2441C Oracle DBA: Database Admin I 4
CTS 2442C Oracle DBA: Network Admin II 4
CTS 2444C Oracle DBA: Performance Tuning 4
Elective Elective 1

Total Program Semester Hours 33

1 Prerequisite – MAT 1033 or MTB 1310
2 Prerequisite – COP 1334C (with a grade of C or higher)
3 Prerequisite – COP 2071C (with a grade of C or higher)
4 Prerequisites – CTS 2441C and CTS 1106 (each with a grade of C or higher)
5 Prerequisites – CTS 2442C and CTS 1111C (each with a grade of C or higher)

It is strongly recommended that students see an academic advisor or counselor every term.

Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

Related Programs
Oracle Database Administrator Associate in Science Major Code 21492
Oracle Database Developer Associate in Science Major Code 21134
Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386

Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

Required Courses
CIS 1000C Introduction to Computer Science 3
COP 1334C Introduction to C++ Programming 3
CIS 2321C Systems Analysis & Design 3
COP 1335C Intermediate C++ Programming 3
COP 2361C Object-Oriented Analysis & Design 3
COP 2700C Introduction to SQL 3
CTS 2445C Oracle Developer: Develop PL/SQL Program Units 4
CTS 2446C Oracle Forms: Build Internet Applications 4
COP 2800C Programming in Java 3
CIS 1513C Project Management 3
Elective Elective 1

Total Program Semester Hours 33

1 Prerequisite – MAT 1033 or MTB 1310
2 Prerequisite – COP 1334C (with a grade of C or higher)
3 Prerequisites – COP 1334C and CIS 2321C (each with a grade of C or higher)
4 Prerequisites – CIS 2321C and COP 2071C (each with a grade of C or higher)
5 Prerequisites – CTS 2442C and CTS 1111C (each with a grade of C or higher)
6 Prerequisites – CIS 2321 and COP 1335C (each with a grade of C or higher); Pre/Co-require – COP 2361C
7 Prerequisite – CGS 1060C (with a grade of C or higher) or Placement

It is strongly recommended that students see an academic advisor every term.
DENTAL ASSISTING
Vocational Certificate Major Code 5217

Program Description
A career in Dental Assisting has developed into a rewarding and challenging opportunity for men and women of today. A Dental Assistant is a member of a highly qualified health team, working to improve the health of the community. The varied duties and responsibilities of the dental assistant require knowledge of the basic dental sciences, proficiency in office management procedures, and practical experience involving specialized skill.

It is a 10-month full-time day program. The minimum weekly contact hours for students are up to 34 hours. The schedule varies per semester. For more specific schedule information please contact the department at 954-201-6448. Successful completion of this program enables students to receive a dental assisting Post Secondary Adult Vocational Certificate (PSAV), enables the student to take the Dental Assisting National Board (CDA) and have expanded duties certification according to the Board of Dentistry of the State of Florida. The Commission on Dental Accreditation of the American Dental Association accredits the Dental Assisting Program, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. Broward College's Dental Assisting program is listed in the Florida Department of Education database of post-secondary courses at public vocational-technical centers, community colleges, universities and participating non-public institutions. A final grade of "C" or higher must be achieved in each Dental Assisting course for continuance in the Program. A student who withdraws or is withdrawn from a Dental course shall refer to College Policy 6Hx2-5.33 and Procedure A6Hx2-5.33 on Re-entry into a Health Sciences Program and/or program guidelines.

Admission information can be obtained at 954-201-6111. Applicants should call the associate dean at (954) 201-6904 for additional information. Program is offered at Health Sciences, A. Hugh Adams Central Campus.

Criteria for Admission to the Dental Assisting Program:
- Applicants must complete requirements for admission to the Health Science Programs.
- Student sign off required on Program Overview written information
- Applicants are accepted based on the date of the completed application, the signed Program Overview & the number of seats available. Applicants who are not admitted must reapply for the following year.
- Applicants must complete the Pre-Health Core requirements (HCP 0001, HSC 0405, HSC 0591, HSC 0691, HSC 0522, formerly HCP 0130, CAE0299, CAE0382, CAE0474, and CAE0476) prior to admission to the program.

Requirements for the Dental Assisting Vocational Certificate:
- Students shall complete an entry-level basic skills examination, TABE, within the first six (6) weeks after admission into the program (State Board of Education rule 6A-10.040)
- Students must meet the TABE test score requirements at the time of graduation.
- Students must take the Certified Dental Assisting (CDA) dental assisting national board examination through DANB the Dental Assisting National Board prior to program completion
- Complete 1,209 clock hours and 6 semester hours of credit with a certificate grade point average of 2.0 or higher.
- Complete the following courses with a grade of "C" or higher:

Other Entrance Requirements
- HS Diploma or GED
- TABE

The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math required by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

<table>
<thead>
<tr>
<th>Term I</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*DEA 0025</td>
<td>Preclinical</td>
</tr>
<tr>
<td>*DEA 0025L</td>
<td>Preclinical Laboratory</td>
</tr>
<tr>
<td>*DEA 0000</td>
<td>Introduction to Dentistry</td>
</tr>
<tr>
<td>*DES 0021</td>
<td>Dental Anatomy and Physiology</td>
</tr>
<tr>
<td>*DES 0103</td>
<td>Dental Materials</td>
</tr>
<tr>
<td>*DES 0103L</td>
<td>Dental Materials Laboratory</td>
</tr>
<tr>
<td>*DES 0844</td>
<td>Preventive Dentistry</td>
</tr>
<tr>
<td>*DES 0205</td>
<td>Dental Radiography</td>
</tr>
<tr>
<td>*DES 0205L</td>
<td>Dental Radiography Laboratory</td>
</tr>
<tr>
<td>*DES 0830</td>
<td>Expanded Functions I</td>
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<td><strong>Total Term Clock Hours</strong></td>
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<table>
<thead>
<tr>
<th>Term II</th>
<th>Clock Hours</th>
</tr>
</thead>
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<tr>
<td>*DES 0831</td>
<td>Expanded Functions II</td>
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<td>*DES 0831L</td>
<td>Expanded Functions II Lab</td>
</tr>
<tr>
<td>*DES 0801</td>
<td>Clinical Procedures I</td>
</tr>
<tr>
<td>*DES 0801L</td>
<td>Clinical Procedures I Lab</td>
</tr>
<tr>
<td>*DEA 0130</td>
<td>Allied Dental Theory</td>
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<td>*DES 0501</td>
<td>Dental Office Management</td>
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<tr>
<td>#DES 0400</td>
<td>Basic Anatomy and Physiology</td>
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<td>*DEA 0150</td>
<td>Dental Psychology</td>
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<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>SPC 1024</td>
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<td>*ENC 1101</td>
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Continued on next page
### Term III

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>*DES 0802  Clinical Procedures II</td>
<td>30</td>
</tr>
<tr>
<td>*DES 0802L  Clinical Procedures II Lab</td>
<td>135</td>
</tr>
<tr>
<td><strong>Total Term Clock Hours</strong></td>
<td><strong>165</strong></td>
</tr>
</tbody>
</table>

**Pre Health Core hours** 95

**Total Program Clock Hours** 1,114

**Total Program Semester Hours (6 cr)** 96

**Total PSAV Certificate Hours** 1,305

*Requires a pre- or co-requisite. See the course description online at [www.broward.edu](http://www.broward.edu).

# Students are exempt from taking this course if they received a grade of “C” or higher in all of the following courses:

* BSC 1085  Anatomy and Physiology I
* BSC 1085L  Anatomy and Physiology I Lab
* BSC 1086  Anatomy and Physiology II
* BSC 1086L  Anatomy and Physiology II Lab

It is strongly recommended that students see an academic advisor or counselor every term.
DENTAL HYGIENE
Associate in Science Major Code 2145

Program Description
The Dental Assisting/Hygiene Program is a two-phase curriculum that gives the student two career options. This career ladder curriculum was designed to offer students employable skills as a dual trained dental auxiliary. You must first complete the 10 month American Dental Association (ADA) accredited Dental Assisting Program. The Dental Assisting program must be listed in the Florida Department of Education database of post secondary courses at public vocational-technical centers, community colleges, colleges, universities and participating non public institutions. Graduates from the Dental Assisting Program are qualified to take the Dental Assisting National Board (DANB) Exam. Upon successful completion of this examination, the graduate becomes a Certified Dental Assistant (CDA).

With the completion of the Dental Assisting Program and the appropriate course pre-requisites, the CDA student may apply to continue to the full time day 12 month Dental Hygiene Program. The minimum weekly contact hours for students are up to 38 hours. The schedule varies per semester. For more specific schedule information please contact the department at 954-201-6448. The student has up to three years from the date of graduation from the dental assisting program for first time application to this program. Students in the Dental Hygiene Program will be qualified to take the Dental Hygiene National Board and upon graduation the Florida State Board examination. Upon passing both examinations, the graduate is licensed as a Registered Dental Hygienist (RDH) in the State of Florida. A final grade of “C” or higher must be achieved in each Dental Hygiene course for continuance in the Program. A student who withdraws or is withdrawn from a Dental Hygiene course shall refer to College Policy 6Hx2-5.33 and Procedure A6Hx2-5.33 on Re-entry into a Health Sciences Program and/or program guidelines.

The Dental Hygiene Program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education.

Admission information can be obtained at 954-201-6111. Applicants should call the Associate Dean at (954) 201-6904 for additional information. Program is offered at Health Sciences, A. Hugh Adams Central Campus.

General Entrance Requirements

• HS Diploma or GED
• PERT‡

‡The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Criteria for Admission to the Dental Hygiene Program
Associate in Science Degree:

• Applicants must fulfill the requirements for admission to the Health Science Programs.
• Students must have completed all College Preparatory courses.
• Minimum grade of “C” or higher for all postsecondary adult vocational and college degree courses with a minimum 2.5 overall GPA. Student selection is based on highest GPA.
• First time applicant must be a graduate within the past 3 years from a Dental Assisting program accredited by the Commission on Dental Accreditation of the American Dental Association and have received a grade of ‘C’ or higher in each course of the Dental Assisting program. The Dental Assisting program must be listed in the Florida Department of Education database of post secondary courses at public vocational-technical centers, community colleges, colleges, universities and participating non public institutions.
• The applicant who has completed all pre-requisite Dental Hygiene general education courses with a “C” or higher and has successfully completed a dental assisting program as described above within the current academic year, but has not received national certification as a Certified Dental Assistant (CDA) may submit an application to the program. A copy of the Dental Assisting National Board Certificate must be submitted prior to application being processed and admission to the program. Failure to do so shall result in loss of the applicant's admission status and require re-application to the program.
• The Certified Dental Assistant (CDA) must be earned within three years of graduating from the above dental assisting program.
• Applicant must show verification of current CPR (BCLS) Certification.
• Complete the following pre-requisite courses with a grade of “C” or higher in order to submit application:
  BSC 1085 Anatomy and Physiology I 3
  BSC 1085L Anatomy and Physiology I Lab 1
  CHM 1032 Chemistry for Health Sciences 3
• All pre-requisite and general education courses must be completed with a grade of ‘C’ or higher prior to admission to the Dental Hygiene program.
• Complete 22 clock hours of coursework through the Continuing Education for Health Related Professions Department, 954-201-6783. These 22 clock hours include:
  HSC 0591, HIV/AIDS;
  HSC 0522, Tuberculosis/OSHA/Hepatitis;
  HSC 0405, Basic Life Support (CPR);
  HSC 0691, Domestic Violence and
  HSC0692/CAE0528, Medical Errors.
These courses must be complete prior to the first day of dental hygiene classes.
## DENTAL HYGIENE

**Associate in Science Major Code 2145**

### Program Graduation Requirements

- Completion of all courses in the degree program with a grade of “C” or higher.
- Completion of 88 semester hours with a degree grade point average of 2.0 or higher.
- Completion of the 22 clock hours of HSC/CAE course work required by the first day of dental hygiene classes (HSC0591, HSC0522, HSC0405, HSC0691 and HSC0692/CAE0528)

### Complete an ADA accredited Dental Assistant Program that is listed in the database of the Florida Department of Education. This will provide credits for the following courses (an experiential learning fee may be charged):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 1021</td>
<td>Dental Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>DES 1103</td>
<td>Dental Materials</td>
<td>2</td>
</tr>
<tr>
<td>DES 1103L</td>
<td>Dental Materials Lab</td>
<td>1</td>
</tr>
<tr>
<td>DES 1205</td>
<td>Dental Radiography</td>
<td>2</td>
</tr>
<tr>
<td>DES 1205L</td>
<td>Dental Radiography Lab</td>
<td>1</td>
</tr>
<tr>
<td>DES 1844</td>
<td>Preventive Dentistry</td>
<td>2</td>
</tr>
<tr>
<td>DES 1830</td>
<td>Expanded Functions I</td>
<td>2</td>
</tr>
<tr>
<td>DES 1831</td>
<td>Expanded Function II</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Hours 14**

### Complete the pre requisite courses prior to submitting an application to the program:

- CHM 1032 Chemistry for Health Sciences 3
- BSC 1085 Anatomy and Physiology I 3
- BSC 1085L Anatomy and Physiology I Lab 1

**Total Semester Hours 7**

### Complete the following general education courses prior to admission into the program:

- ENC 1101 Composition I 3
- SPC 1024 Introduction to Speech Communications 3
- PSY 2012 General Psychology 3
- SYG 2000 Principles of Sociology 3
- BSC 1086 Anatomy and Physiology II 3
- BSC 1086L Anatomy and Physiology II Lab 1
- MCB 2010 Microbiology 3
- MCB 2010L Microbiology Lab 1
- Elective Humanities (with writing requirement) 3
- HUN 1202 Essentials of Nutrition 3

**Total Semester Hours 26**

### Complete the following Dental Hygiene Courses:

- DEH 1002 Preclinical Dental Hygiene I 2
- DEH 1002L Preclinical Dental Hygiene I Lab 3
- DEH 1800 Dental Hygiene I 2
- DEH 1800L Dental Hygiene I Clinic 2
- DEH 1802 Dental Hygiene II 4
- DEH 1802L Dental Hygiene II Clinic 3
- DEH 1050 Pain Control and Dental Anesthesia 1
- DEH 1130 Oral Histology and Embryology 2
- DEH 1602 Periodontology 3
- DEH 1602L Periodontology Laboratory 1
- DEH 2300 Dental Pharmacology 2
- DEH 2400 General and Oral Pathology 2
- DEH 2701 Community Dental Health 2
- DEH 2701L Community Dental Health Lab 1
- DEH 2804L Dental Hygiene III Clinic 4
- DEH 2806 Dental Hygiene IV 2
- DEH 2806L Dental Hygiene IV Clinic 4
- DEH 2840L Advanced Dental Technology Lab 1

**Total Semester Hours 41**

**Total Program Semester Hours 88**

* Requires a pre- or co-requisite. See the course description in this catalog or online at [www.broward.edu](http://www.broward.edu).

It is strongly recommended that students see an academic advisor or counselor every semester.
Diagnostic Medical Sonography

**Program Description**
The Diagnostic Medical Sonography Program prepares individuals meeting certain qualifications to work with medical practitioners in the management, control and care of patients referred for ultrasound studies. The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL, 33756, Phone 727-210-2350, upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

This program is a two year full-time day program. Clinical education is performed in local clinics/hospitals and is offered concurrently with the didactic courses. On completion of the 24-month program, students will be eligible to apply to sit for the exams of the American Registry of Diagnostic Medical Sonographers.

Applicants should access admission information online at www.broward.edu/healthsciences, or call 954-201-2892. Applicants may call the Program Manager at (954) 201-2089 for all specific program admissions related questions. All didactic courses are taught in Bldg 41, Broward College, North Campus, 1000 Coconut Creek Boulevard, Coconut Creek Florida. Clinical affiliation sites are located throughout Broward and Palm Beach counties as well as counties serving Edison State College.

**General Entrance Requirements**

- Associate Degree
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

In order to qualify for admissions to the Associate in Science (AS) degree program, applicants must meet the following requirements:

- Applicants must fulfill the general requirements for admission to Health Science Programs
- Applicants who are first-time BC students must complete an application to the College, in addition to completion of a Health Science Limited Access Application. To apply for Admission to the College, go to the College home page and click on “Future Student” then go to “Admissions”. The Health Science Limited Access application is available to download on the program’s website.
- Applicants must submit an official and original document that indicates completion of a minimum of a two year course of study in a health science field that is patient-care related, and which leads to Registry, Certification or Licensure.

- The following curriculum requisites (course that must be taken) must be met prior to the beginning of the core curriculum of the diagnostic medical sonography education program and they must be college level courses. The courses must be completed in a prior course of study and if not, must be completed prior to applying in order to meet application qualifications:
  a. Algebra, statistics, or higher mathematics course
  b. General college-level physics and/or radiographic physics
  c. Communication skills – (English, Speech or Composition)
  d. Human anatomy and physiology
  e. Patient care – (either a separate course such as BC’s HCP 1030 - Health Careers Core Curriculum or as content within a health career AS, AAS, MD or DO degree)
  f. Medical terminology
- For all applicants, a minimum of a 2.5 grade point average (GPA) is required. The GPA should appear on submitted documentation.
- Admission of an applicant is based on the point system seen below. (Note: point preference is given to Radiologic Technologists)

**Point System for Admission into the Diagnostic Medical Sonography Program**

<table>
<thead>
<tr>
<th>Points</th>
<th>GPA Range</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3.5 to 4.0</td>
<td>GPA related to Health Science 2 year certificate/degree programs from non-accredited (technical course work only) or accredited (technical course work and/or general educational courses) schools</td>
</tr>
<tr>
<td>3</td>
<td>3.0 to 3.4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2.5 to 2.9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>Prior Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Radiologic Technologist from non-accredited or accredited programs (Graduates of non-accredited programs must provide documentation of completion of the curriculum requisites)</td>
</tr>
<tr>
<td>15</td>
<td>Graduate of a non-accredited Sonography program. (Graduates of non-accredited programs must provide documentation of completion of the curriculum requisites)</td>
</tr>
<tr>
<td>15</td>
<td>Physician’s (MD’s or DO’s) trained outside of the US. (Graduates of a medical program must provide documentation of completion of the curriculum requisites)</td>
</tr>
<tr>
<td>10</td>
<td>Graduate of a 2 year (AS or AAS) Health Science Program that leads to registry/licensure. (Graduates of the Health Science program must provide documentation of completion of the curriculum requisites)</td>
</tr>
<tr>
<td>5</td>
<td>Graduate of a Bachelor’s Degree program who has completed the curriculum requisite courses</td>
</tr>
</tbody>
</table>

Continued on next page
**Diagnostic Medical Sonography Technology (Ultrasound)**

Diagnostic Medical Sonography Associate in Science Major Code 2176 (cont.)

**Requirements for the Associate in Science in Diagnostic Medical Sonography:**
- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Completion of 72 semester hours with a grade point average of 2.0 or higher.
- Completion of all courses in the degree program with a grade of “C” or higher.

<table>
<thead>
<tr>
<th>First Year – Spring Term Session II</th>
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</thead>
<tbody>
<tr>
<td>PHY1001</td>
</tr>
<tr>
<td>*MTB 1310</td>
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<td>*MAT 1033</td>
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<tr>
<td>ENC 1101</td>
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<tr>
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<td>SPC 1024</td>
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<tr>
<td>BSC 1085</td>
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<tr>
<td>BSC 1085L</td>
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<tr>
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<table>
<thead>
<tr>
<th>First Year-Summer Session Term III</th>
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</thead>
<tbody>
<tr>
<td>BSC 1086</td>
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<tr>
<td>SON 1170</td>
</tr>
<tr>
<td>SON 1100L</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term I, Fall Term, First Year</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>*SON 1111</td>
</tr>
<tr>
<td>*SON 1121</td>
</tr>
<tr>
<td>*SON 1003L</td>
</tr>
<tr>
<td>*SON 1804</td>
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</tbody>
</table>

<table>
<thead>
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<th>Term II, Spring Term, First Year</th>
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<tbody>
<tr>
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<td>SON 1104L</td>
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<tr>
<td>*SON 1814</td>
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<th>Term III, Summer Term, Second Year</th>
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<tr>
<td>*SON 1824</td>
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</table>

<table>
<thead>
<tr>
<th>Term I, Fall Term, Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>*SON 2400</td>
</tr>
<tr>
<td>*SON 2400L</td>
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<tr>
<td>*SON 1215</td>
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<tr>
<td>*SON 2834</td>
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<tr>
<td>Elective</td>
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<table>
<thead>
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<th>Term II, Spring Term, Second Year</th>
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<td>*SON 2844</td>
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<table>
<thead>
<tr>
<th>Total Program Semester Hours</th>
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<tbody>
<tr>
<td><strong>72</strong></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. Refer to the course descriptions found at www.broward.edu.

**Successful completion of the basic student technology literacy test, or passing CGS1060C, is required to earn the degree.

It is strongly recommended that students meet with a college academic advisor or counselor every term.
**DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY**  
Digital Media/Multimedia Technology Associate in Applied Science Major Code A018

**Program Description**  
The Digital Media/Multimedia Technology Associate in Applied Science Degree, offered at South Campus, is designed to prepare students to enter the emerging field of multimedia as a Multimedia Production Specialist.

**Related Programs**  
- Digital Media Web Production Technical Certificate Major Code 6286  
- Digital Media/Multimedia Production Technical Certificate Major Code 6287  
- Project Manager in Digital/Design Technology Advanced Technical Certificate Major Code 4279

**Entrance Requirements**  
- HS Diploma or GED  
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**First Year Term I**  
- *ENC 1101 Composition I*  
- CSG 1060C Computer and Internet Literacy  
- OST 1841 Instructional Design for Multimedia  
- DIG 2100C Web Development 1  
- DIG 2115C Digital Imaging Fundamentals Using Photoshop  

**Total Term Semester Hours**  
15

**First Year Term II**  
- DIG 2101C Web Development 2 Using Dreamweaver  
- OST 2335 Communications in the Workforce  
- DIG 2500C Multimedia Authoring  
- DIG 2280C Digital Video/Audio Editing  
- DIG 2132C Digital Art & Design with Illustrator  

**Total Term Semester Hours**  
15

**First Year Term III, Session I or Session II**  
- Elective Humanities/Fine Arts  
- #Elective Multimedia  

**Total Term Semester Hours**  
6

**Second Year Term I**  
- DIG 2300C Digital Animation using Director  
- DIG 2116C Digital Imaging Advanced  
- Elective Mathematics/Science  
- #Elective Multimedia  
- DIG 2292C Digital Post Production with After Effects  

**Total Term Semester Hours**  
15

**Second Year Term II**  
- DIG 2560 Planning & Management of Digital Media Authoring  
- DIG 2940 Internship in Digital Media  
- DIG 2311C Fundamentals of Digital Media Using Flash Animation  
- Elective Social/Behavioral Science  

**Total Term Semester Hours**  
13

**Total Program Semester Hours**  
64

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or at www.broward.edu

#Multimedia Elective-choose two of the following courses:  
- DIG 2109C Digital Publishing with InDesign  
- DIG 2580C Digital Media Portfolio  
- DIG 2302C Intro to 3D Animation  

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**

It is strongly recommended that students see an academic advisor or counselor every term.
DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY
Digital Media Web Production Technical Certificate Major Code 6286

Program Description
This program is designed to prepare students for initial employment as Web production assistants. Web production artists, or to provide supplemental training for those already employed in the field. This basic-to-intermediate certificate provides students with the computer, digital media, and graphic production skills needed to create web sites.

Related Programs
Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
Multimedia Web Development Advanced Technical Certificate Major Code 4278
Digital Media/Multimedia Production Technical Certificate Major Code 6287
Project Manager in Digital/Design Technology Advanced Technical Certificate Major Code 4279

Entrance Requirements
• HS Diploma or GED
• PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

DIG 2100C Web Development 1 3
DIG 2115C Digital Imaging Fundamentals
Using Photoshop 3
DIG 2101C Web Development 2 using
Dreamweaver 3
DIG 2311C Fundamentals of Digital Media
Using Flash Animation 3
Select one from the following two courses:
DIG 2116C Digital Imaging Advanced 3
DIG 2132C Digital Art & Design with
Illustrator 3

Total Program Semester Hours 15

It is strongly recommended that students see an academic advisor or counselor every term.
DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY
Multimedia Web Development Advanced Technical Certificate Major Code 4278

Program Description
The courses in Multimedia Web Development are offered on Judson A. Samuels South Campus to graduates of Multimedia Technology AS degree who require additional coursework to be employed in Internet positions. An Advanced Technical Certificate in Multimedia Web Development will be awarded after 15 credit hours are completed from the following courses:

Related Programs
- Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
- Digital Media Web Production Technical Certificate Major Code 6286
- Digital Media/Multimedia Production Technical Certificate Major Code 6287
- Project Manager in Digital/Design Technology Advanced Technical Certificate Major Code 4279

Entrance Requirements
- ASSOCIATE DEGREE

Select 15 Credits the Following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1540C</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>DIG 2360C</td>
<td>Advanced Web Animation with Flash</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2134C</td>
<td>Advanced Multimedia Animation</td>
<td>3</td>
</tr>
<tr>
<td>COP 2801C</td>
<td>Java Scripting</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2554C</td>
<td>E-Commerce Web Development</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2723C</td>
<td>Adv. Web Site Design</td>
<td>3</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an academic advisor or counselor every term.
DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY
Digital Media/Multimedia Production Technical Certificate Major Code 6287

Program Description
This program is designed to prepare students for initial employment as Digital Media/Multimedia Production Technician or Digital Media/Multimedia Developer, or to provide supplemental training for those already employed in the field. This basic-to-intermediate certificate provides students with the computer, production, and digital media skills needed to create digital media/multimedia projects.

Related Programs
Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
Digital Media Web Production Technical Certificate Major Code 6286
Multimedia Web Development Advanced Technical Certificate Major Code 4278
Project Manager in Digital/Design Technology Advanced Technical Certificate Major Code 4279

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

DIG 2115C Digital Imaging Fundamentals Using Photoshop 3
OST 1841 Instructional Design for Multimedia 3
DIG 2280C Digital Video/Audio Editing 3
DIG 2500C Multimedia Authoring 3
DIG 2300C Digital Animation using Director 3

Total Program Semester Hours 15

It is strongly recommended that students see an academic advisor or counselor every term.
DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY
Project Manager in Digital/Design Technology Advanced Technical Certificate Major Code 4279

Program Description
The Project Manager in Digital/Design Technology Advanced Technical Certificate, offered at South Campus, is designed for those with an AS/AA or higher degree who wish to advance in digital/design technology fields as project managers. Students in this program will gain a comprehensive understanding of the nature of project management and leadership techniques.

Related Programs
- Digital Media/Multimedia Technology Associate in Applied Science Major Code A018
- Digital Media Web Production Technical Certificate Major Code 6286
- Digital Media/Multimedia Production Technical Certificate Major Code 6287

Entrance Requirements
- An Associate Degree

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1577C</td>
<td>Presentation Systems</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2143C</td>
<td>Web Publishing II</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2403</td>
<td>Principles of Project Management</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2404C</td>
<td>Project Management II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Semester Hours 12

If you have not already taken these courses, it is strongly recommended that you take the following courses to enhance your skills:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 2300</td>
<td>Intro to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>INP 1390</td>
<td>Human Relations in Business and Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an academic advisor or counselor every term.
# EARLY CHILDHOOD EDUCATION
## Associate in Science

### Program Description

Opportunities for a rewarding career in the early childhood field abound for the well trained professional interested in being a teacher of young children, supervisor of children's programs, or owner of a child care facility.

The Associate in Science degree combines classroom and field experience to give the student the necessary background for success in the job market. Course work provides graduates with the ability to design an effective educational curriculum, manage children in a classroom setting, supervise early childhood personnel, and efficiently administer childcare business operations. This program is offered at North Campus; general education courses are taught at all BC locations.

### Entrance Requirements

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### General Education Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C</td>
<td>Computer and internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II or</td>
<td></td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>DEP 2002</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>General Education</td>
<td>3</td>
</tr>
<tr>
<td>(one course from Areas 1-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLP1081</td>
<td>Total Wellness</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Semester Hours 36**

### Early Childhood Education Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 1200</td>
<td>Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC 1603</td>
<td>Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>CHD 1338</td>
<td>Mathematics and Science for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CHD 1334</td>
<td>Children's Literature Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>CHD 1940</td>
<td>Practicum I: Observation and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CHD 1331</td>
<td>Creativity for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 1320</td>
<td>Curriculum Planning for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>*CHD 2441</td>
<td>Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>CHD 2800</td>
<td>Administration and Management in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours 27**

**Total Program Semester Hours 63**

*Requires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

(1) Electives: (Any college level courses, including Technical Education courses).

Students must fulfill a mathematics competency exit requirement through placement test or coursework.

Early Childhood Education courses do not have to be taken in any sequence.

It is strongly recommended that students see an academic advisor or counselor every term.
### Electr...
### ELECTRONICS ENGINEERING TECHNOLOGY

**Basic Solar Technician Technical Certificate**  
Major Code 6305

#### Program Description
This certificate provides individuals the opportunity to learn industry standard terms and procedures relating to basic solar photovoltaic systems. Students completing this program will have the skills and knowledge required to successfully certify as a solar photovoltaic system installer through the North American Board of Certified Energy Practitioners (NABCEP).

#### Related Programs
- Electronics Engineering Technology Associate in Applied Science Major Code A013
- Electronics Solar Technician Technical Certificate Major Code 6307

#### Entrance Requirements
- HS Diploma or GED
- PERT

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

#### First Year Term I
- ETP 2402C – Introduction to solar photovoltaic systems 3
- *MTB 1325 – Engineering Technology Math 1 4
- EET 1015C – DC Circuits 5

**Total Term Semester Hours** 12

#### First Year Term II
- *EET 1025C – AC Circuits 5
- *ETP 2410C – Installation of solar photovoltaic systems 3

**Total Term Semester Hours** 8

**Total Program Semester Hours** 20

*Requires a pre- or co-requisite

Technical courses should be taken in the sequence and term suggested unless approved by the Department Head.

This program of study applies to students who enroll in Broward College for the first time during the 2010/11 academic year or later.

It is strongly recommended that students see an academic advisor or counselor every term.
ELECTRONICS ENGINEERING TECHNOLOGY
Electronics Solar Technician Technical Certificate Major Code 6307

Program Description
This certificate provides individuals the opportunity to learn industry standard methods and terms relating to the installation of solar photovoltaic systems. Students completing this program will have the skills and knowledge required to successfully certify as a solar photovoltaic system installer through the North American Board of Certified Energy Practitioners (NABCEP).

Related Programs
Electronics Engineering Technology Associate in Applied Science Major Code A013
Basic Solar Technician Technical Certificate Major Code 6305

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
ETP2402C – Introduction to solar photovoltaic systems 3
*MTB 1325 – Engineering Technology Math 14
EET 1015C – DC Circuits 5

Total Term Semester Hours 12

First Year Term II
*MTB 1326 – Engineering Technology Math 2 4
*EET 1025C – AC Circuits 5
* ETP2410C – Installation of solar photovoltaic systems 3

Total Term Semester Hours 12

Summer Term I
CET 1114C – Digital Techniques 5
*EET 1141C – Linear Techniques 1 5

Total Term Semester Hours 10

Total Program Semester Hours 34

*Requires a pre- or co-requisite

Technical courses should be taken in the sequence and term suggested unless approved by the Department Head.

It is strongly recommended that students see an academic advisor or counselor every term.
# EMERGENCY MANAGEMENT

**Emergency Management Associate in Science Major Code 2200 (2200E)**

## Program Description
The Emergency Management AS degree, offered through the BC Institute of Public Safety located at the Central Campus 954-201-6791, is designed for current Public Safety employees (Law Enforcement, Fire Service or Public Health) seeking to become effective Emergency Managers within their area of expertise. This program is also for those seeking entry-level positions in the area of Public Safety/Emergency Management.

## Related Programs
- Emergency Management Technical Certificate Major Code 6303 (6303E)

## Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

## General Education Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>Composition or</td>
<td></td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech or</td>
<td></td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>POS 2112</td>
<td>State &amp; Local Government</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>National Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>Psychology or</td>
<td></td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1060C**</td>
<td>Computer &amp; Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts -</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Math/Natural Science</td>
<td>3</td>
</tr>
</tbody>
</table>

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

## Emergency Management Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FES2014</td>
<td>Intro to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1830</td>
<td>Intro to Hazards</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2831</td>
<td>Hazard Planning &amp; Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2840</td>
<td>Disaster Response &amp; Recovery</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2800</td>
<td>Emergency Management Public Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>DSC 1002</td>
<td>Terrorism &amp; Domestic Security</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2801</td>
<td>Introduction to Command (Incident Command System)</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2841</td>
<td>Emergency Planning for Business &amp; Industry</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Intro to Management or</td>
<td></td>
</tr>
<tr>
<td>PAD 2002</td>
<td>Intro to Public Administration or</td>
<td></td>
</tr>
<tr>
<td>CJE 1300</td>
<td>Criminal Justice Administration or</td>
<td></td>
</tr>
<tr>
<td>FFP 2710</td>
<td>Fire Department Supervision or</td>
<td></td>
</tr>
<tr>
<td>HIM 2512</td>
<td>Healthcare Supervision &amp; Organization</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

** Credit Hours 33  
Total Term Semester Hours 60**

It is strongly recommended that students see an academic advisor or counselor every term.
EMERGENCY MANAGEMENT
Emergency Management Technical Certificate Major Code 6303 (6303E)

Program Description
The Emergency Management vocational certificate, offered through the Institute of Public Safety located at the Central Campus, is designed for current Public Safety employees (Law Enforcement, Fire Service or Public Health) seeking career advancement by obtaining the knowledge and skills to become effective Emergency Managers within their area of expertise. This program is also appropriate for students seeking entry-level positions in the area of Public Safety / Emergency Management. Students who successfully complete the certificate program may use the credits earned toward the AS in Emergency Management degree.

Related Programs
Emergency Management Associate in Science Major Code 2200 (2200E)

Entrance Requirements
- HS Diploma or GED
- PERT

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FES 2010</td>
<td>Intro to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1830</td>
<td>Intro to Hazards</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2831</td>
<td>Hazard Planning &amp; Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2840</td>
<td>Disaster Response &amp; Recovery</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2800</td>
<td>Emergency Management Public Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>DSC 1002</td>
<td>Terrorism &amp; Domestic Security</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2801</td>
<td>Introduction to Command</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2841</td>
<td>Emergency Planning for Business &amp; Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 24

This certificate program is composed of 8 courses (24 credits total). The 8 courses do not have to be taken in any particular order. However, it is recommended that FES 2010 and FFP 1830 be the first two courses taken by the student.

It is strongly recommended that students see an academic advisor or counselor every term.
EMERGENCY MEDICAL SERVICES PROGRAMS
Emergency Medical Technician Applied Technology Diploma Major Code B003

Program Description
Broward College has developed a six (6) semester program in Emergency Medical Services that contains three (3) milestones to meet the needs of the community. The Applied Technology Diploma for the EMT (milestone 1) and the Technical Certificate for the Paramedic (milestone 2) are included in the two-year Associate in Science Degree in Emergency Medical Services (milestone 3). Satisfactory completion of the EMT Technical Diploma will enable the student to take the Florida State EMT Examination. Satisfactory completion of the advanced courses in the Paramedic Technical Certificate Program will enable students to take the Florida State Paramedic and National Registry Examination. An Associate in Science degree in Emergency Medical Services can be earned by completion of six (6) general education courses (18 credit hours) and one (1) specialized EMS course. Students are encouraged to take one general education course per semester during the six (6) semesters in the program.

This program is accredited by the Joint Review Committee on Education Programs for the EMT-Paramedic.

Related Programs
Paramedic Technical Certificate Major Code 6208
Emergency Medical Services - Associate in Science Major Code 2160

General Entrance Requirements
- HS Diploma or GED

Applicants should call (954) 201-6920 or go online to www.broward.edu for additional information. These programs are offered at Health Sciences, Central and North campuses.

Criteria for Admission to EMT Applied Technology Diploma, Paramedic Technical Certificate and AS Degree Programs:
Applicants to the Emergency Medical Services Programs must fulfill the general requirements for admission to the College and complete the application process for the Emergency Medical Services Department. The selection of students is based upon the students meeting the Health Science Admission Requirements and Procedures and the following additional factors:

- Freedom from any physical or mental defects or diseases, which might impair a candidate’s ability to perform duties.
- Freedom from any addiction to alcohol or any controlled substance
- Applicants must satisfy the drug screening, back ground check, and medical screening criteria.

Enrollment in all EMS courses is limited. Courses may not be audited if State certificate is contemplated, since a grade of ‘‘C’’ or higher is required. All admission requirements are based on the eligibility requirements of the State of Florida to take the certification examination.

Specific Criteria for Admission to EMT Applied Technology Diploma Program:
A priority for admission into the EMT Applied Technology Program is given to the following individuals who serve in a “first response” capacity:

- Fire Department Personnel
- Ambulance Personnel
- Police Personnel
- Lifeguard Personnel
- EMS Personnel
- United States Military Personnel

All other interested individuals will be admitted based upon date of application and space availability. This program is a one semester full-time day or evening program.

Graduation Requirements for EMT-Applied Technology Diploma:
- Completion of 11 semester hours with a grade of “C” or higher in all EMS courses listed below. Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 1119</td>
<td>Emergency Medical Technician, Basic</td>
<td>6</td>
</tr>
<tr>
<td>*EMS 1119L</td>
<td>EMS Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 1411</td>
<td>Hospital Clinical</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 1421</td>
<td>Field Clinical</td>
<td>2</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td><strong>11</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General Education course</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Recommended Semester Hours</td>
<td><strong>14</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See course description online at www.broward.edu.

** Students are strongly encouraged to take one (1) general education course in addition to the EMS program courses.
EMERGENCY MEDICAL SERVICES PROGRAMS  
Paramedic Technical Certificate Major Code 6208

Applicants should call 954-201-6920 or go to www.broward.edu for additional information. Program is offered at the Central and North campuses.

Related Programs
Emergency Medical Technician Applied Technology Diploma Major Code B003
Emergency Medical Services - Associate in Science Major Code 2160

Criteria for Admission to the Paramedic-Technical Certificate Program:
- A priority for admission into the Paramedic Technical Certificate Program is given to individuals who serve in a “first response” capacity, such as Fire Department, Ambulance, Public Safety, and military personnel. All other interested individuals will be admitted based on date of application and space availability. This program is a four semester full-time day or evening program.
- Successfully complete an EMT Program as verified by a program Completion Certificate in order to enter the Paramedic Program.

Requirements for the Paramedic Technical Certificate Program:
- Completion of 54 semester hours with a grade of “C” or higher in all EMS courses listed below. Students are strongly encouraged to take one (1) general education course in additional to the EMS program courses.

Other Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

| Term I | | Term II |
|--------|--------|
| EMS 2010 | Body Systems for the Paramedic | 3 |
| *EMS 2631 | Paramedic Science I – Lecture | 3 |
| *EMS 2631L | Paramedic Science I – Skills Lab | 1 |
| *EMS 2650 | Paramedic Science I, Field Clinical | 1 |
| *EMS 2513 | Crisis Intervention | 3 |
| Total Term Semester Hours | **11** |

| Term III | | Term IV |
|----------|--------|
| *EMS 2532 | Paramedic Science II-Lecture | 3 |
| *EMS 2632I | Paramedic Science II, Skills Lab | 1 |
| *EMS 2633 | Paramedic Science II, Cardio Respiratory Lecture | 3 |
| *EMS 2641 | Paramedic Science, Hospital Clinical I | 2 |
| *EMS 2651 | Paramedic Science II, Field Clinical | 3 |
| **General Education course | 3 |
| Total Term Semester Hours | **15** |

| Term IV | | | |
|---------|--------|
| *EMS 2636 | Paramedic Science IV - Lecture | 3 |
| *EMS 2636L | Paramedic Science IV Lab | 1 |
| *EMS 2643 | Paramedic Science I Clinical III | 2 |
| *EMS 2653 | Paramedic Science Internship | 4 |
| **General Education course | 3 |
| Total Term Semester Hours | **13** |
| Total Program Semester Hours | **54** |

*Requires a pre- or co-requisite. See course descriptions online at www.broward.edu.

(1) Pre-requisite: Florida State EMT I certification

** Students are strongly encouraged to take one (1) general education course in additional to the EMS program courses.

Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that you see an academic advisor or counselor every term.
EMERGENCY MEDICAL SERVICES PROGRAMS
Emergency Medical Services - Associate in Science
Major Code 2160

Related Programs
Emergency Medical Technician Applied Technology Diploma
Major Code B003
Paramedic Technical Certificate Major Code 6208

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>Complete the following General Education courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1060C</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete the following EMS courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*EMS 1119 EMT Lecture</td>
<td>6</td>
</tr>
<tr>
<td>*EMS 1119L EMT Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 1411 EMT Hospital Clinical</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 1421 EMT Field Clinical</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2010 Body Systems for the Paramedic</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2631 Paramedic Science I, Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2631L Paramedic Science I, Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2650 Paramedic Science I, Field Clinical</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2632 Paramedic Science II Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2632L Paramedic Science II Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2633 Paramedic Science II</td>
<td></td>
</tr>
<tr>
<td>*EMS 2641 Paramedic Science Hospital Clinical</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2651 Paramedic Science II Field Clinical</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2634 Paramedic Science III Trauma Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2634L Paramedic Science III Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2635 Paramedic Science III Medical Emergencies Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2642 Paramedic Science Hospital Clinical</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2652 Paramedic Science III - Field Clinical</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2636 Paramedic Science IV Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2636L Paramedic Science IV Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2643 Paramedic Science Hospital Clinical III</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2653 Paramedic Science IV Field Internship</td>
<td>4</td>
</tr>
<tr>
<td>*EMS 2311 Leadership Practicum</td>
<td>2</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td>55</td>
</tr>
<tr>
<td>Total Program Hours</td>
<td>73</td>
</tr>
</tbody>
</table>

*Rquires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

**(1)**Pre-requisite: Florida State EMT I certification

#Pre-requisite course for entry to the program.

***CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that all students see an academic advisor or counselor every session.

Students who test into college preparatory courses must successfully complete all required college preparatory courses to qualify for graduation.
## ENVIRONMENTAL SCIENCE TECHNOLOGY

**Environmental Science Technology Associate in Science Major Code 2182**

### Program Description
This program, offered at the A. Hugh Adams Central Campus, prepares students for employment in various positions such as environmental laboratory technicians, environmental samplers, environmental health inspectors, instrumentation technicians, pollution control technicians, groundwater contamination technicians and geology technicians.

### Related Programs
Geographic Information Systems Advanced Technical Certificate Major Code 4277

### Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1025</td>
<td>Introduction to Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1025L</td>
<td>Introduction to Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>General Biology or</td>
<td>3</td>
</tr>
<tr>
<td>ORH 1000</td>
<td>Horticultural Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1005L</td>
<td>General Biology Lab or</td>
<td>1</td>
</tr>
<tr>
<td>ORH 1000L</td>
<td>Horticultural Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>#EVR 2930</td>
<td>Environmental Science Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours 15**

### First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>*EVR 1009</td>
<td>Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ORH 1523</td>
<td>Native Upland Plants</td>
<td>2</td>
</tr>
<tr>
<td>ORH 1524</td>
<td>Native Wetland Plants</td>
<td>2</td>
</tr>
<tr>
<td>*EVS 2893C</td>
<td>Environmental Sampling and Analysis</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours 15**

### First Year Term III, Session II or III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Math (MTB 1310, MAT 1033, or MGF 1107)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours 6**

### Second Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 1858</td>
<td>Environmental Regulations</td>
<td>3</td>
</tr>
<tr>
<td>#EVR 2930</td>
<td>Environmental Science Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SWS 2242C</td>
<td>Wetlands Management I</td>
<td>3</td>
</tr>
<tr>
<td>*MCB 2010</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>*MCB 2010L</td>
<td>Microbiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours 14**

### Second Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 2949</td>
<td>Co-op Internship</td>
<td>3</td>
</tr>
<tr>
<td>GIS 1040C</td>
<td>Introduction to Geographic Information Systems I</td>
<td>4</td>
</tr>
<tr>
<td>*PSC 1121</td>
<td>Physical Science or</td>
<td>3</td>
</tr>
<tr>
<td>*PHY1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 1121L</td>
<td>Physical Science Lab or</td>
<td>1</td>
</tr>
<tr>
<td>*PHY 1001L</td>
<td>Applied Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEO 2370</td>
<td>Conservation of Natural Resources or</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Social Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours 14**

**Total Program Semester Hours 64**

*Requires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

#Students are required to take this course twice.

This program includes three credits of undesignated electives. Students may consider the following recommended electives: GLY 1010, ZOO 2010, or ETD 1320. Students who are not computer literate are advised to take ETD 1320 prior to enrolling in GIS 1040C.

**Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.**

**It is strongly recommended that students see an academic advisor every term.**
ENVIRONMENTAL SCIENCE TECHNOLOGY  
Geographic Information Systems Advanced Technical Certificate Major Code 4277

**Related Programs**
Environmental Science Technology Associate in Science  
Major Code 2182  

**Entrance Requirements**
- HS Diploma or GED/Associate Degree  
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 1042C</td>
<td>Introduction to Geographic Information Systems II</td>
<td>3</td>
</tr>
<tr>
<td>GIS 1030</td>
<td>Remote Sensing and Applications</td>
<td>3</td>
</tr>
<tr>
<td>GIS 1047C</td>
<td>Applications of Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester credits** 9

It is strongly recommended that students see an academic advisor every term.

Pre-requisite: Associate in Science Degree in Environmental Science Technology or departmental approval of related degrees.
**Program Description**
The Associate in Science Degree in Fire Science Technology, located on A. Hugh Adams Central Campus, is designed for fire service or fire protection related professionals, to enhance technical competencies, and prepare them for career advancement through participation in appropriate courses of study. The program provides options for concentrated study including Arson Investigator, Fire Officer, and Municipal Fire Inspector specialties. Accelerated programs are offered in a series of required (3) credit courses, to prepare students for State Fire Officer I, Municipal Fire Inspector, or Arson Investigator certification.

*For additional information call 954-201-6791.*

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**Fire Science General Education Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*ENC 1102</td>
<td>English Composition II or</td>
<td></td>
</tr>
<tr>
<td>*ENC 2210</td>
<td>Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech or</td>
<td></td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>POS 2112</td>
<td>State and Local Government or</td>
<td></td>
</tr>
<tr>
<td>POS 2041</td>
<td>National Government</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Mathematics/Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td>CGS1060C, Computer and Internet Literacy or any college-level transferable course</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>General Education Course (any college-level transferable course</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 30

**Fire Science Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP 1505</td>
<td>Fire Prevention Theory and Application</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1120</td>
<td>Fire Protection through Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1810</td>
<td>Firefighting Tactics and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1540</td>
<td>Fire Protection &amp; Detection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2710</td>
<td>Fire Department Supervision</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2740</td>
<td>Methods and Techniques Instruction</td>
<td>3</td>
</tr>
<tr>
<td>*FFP 2811</td>
<td>Application of Fire Ground Tactics</td>
<td>3</td>
</tr>
<tr>
<td>*FFP Electives</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 30

**Total Program Credit Hours** 60

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*Requires a pre or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

# The following courses satisfy FFP elective requirements. Regardless of the number of FFP elective courses the student has completed, a maximum of nine (9) credits may be used toward the Fire Science degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP 1000</td>
<td>Introduction to Fire Science</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2801</td>
<td>Introduction to Command</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2741</td>
<td>Fire Science Course Design</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1780</td>
<td>Fire Administration I</td>
<td>3</td>
</tr>
<tr>
<td>FFP 1510</td>
<td>Codes and Standards</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2111</td>
<td>Fire Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2781</td>
<td>Fire Administration II</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2604</td>
<td>Origin and Cause</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2630</td>
<td>Latent Investigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2670</td>
<td>Legal Issues in Fire Investigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2690</td>
<td>Fire Service Photography</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2521</td>
<td>Construction and Plans Examination</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2401</td>
<td>Hazardous Materials I</td>
<td>3</td>
</tr>
<tr>
<td>FFP 2402</td>
<td>Hazardous Materials II</td>
<td>3</td>
</tr>
</tbody>
</table>

+ Recommended courses: STA 2023, PHI 2600, SYG 2010, PSY 2012, ECO 2013, CHM 1025, and EVR 1009.
GLOBAL TRADE AND LOGISTICS
Global Trade and Logistics Associate in Science Major Code 2205

Program Description
The Global Trade and Logistics Associate Science Degree prepares students for initial employment with the basic and cross-functional skills necessary for working in areas such as planning, acquisition, flow and distribution of goods and services. Occupations in this industry include: Integrated Logistics Planner, Purchasing Analyst, Cargo Scheduler, International Logistics Specialist, Quality Manager, Claims Associate, Inventory Control Manager, Rail Fleet Management Specialist, Contract Specialist, Logistics Analyst, Sourcing Agent, Customer Service Manager, Materials Analyst, Supply Chain Engineer, Director of Inventory Management, Materials Manager, Supply Program Manager, Dispatcher, Operations Research Manager, Supply Technician, Distribution Area Manager, Operations Supervisor, Traffic Manager, Distribution Center Operations Manager, Order Fulfillment Supervisor, Transportation Coordinator, Distribution Planning Analyst, Packaging Supervisor, Transportation Manager, Expedited Cargo Sales, Plant Receiving/Shipping Supervisor, Transportation Solutions Director, Facilities Supervisor, Procurement Clerk/Technician, Warehouse Operations Supervisor, Forecaster Product Manager-Tracing and Tracking, Warehouse Shift Supervisor, Import/Export Analyst, Purchasing Agent.

Related Programs
Business Specialist Technical Certificate Logistics Specialist Option Major Code 6288 (6288E)

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

General Education Requirements:
**CGS 1060c  Computer and Internet Literacy  3
SPC 1024  Intro to Speech Communications  3
ENC 1101  Composition I  3
GEA 2000  World Geography  3
STA 2023  Statistics  3
ECO 2013  Macroeconomics  3
MAC 1105  College Algebra  3
PHI 2600  Introduction to Ethics  3
Total General Education Credits: 24

Business Core Requirements:
ACG 2001  Principles of Accounting I  3
*ACG 2011  Principles of Accounting II  3
*ACG 2071  Managerial Accounting  3
BUL 2241  Business Law  3
*CGS 1510  Electronic Spreadsheet  3
GEB 2949  Co-Op Work Experience  3
MAN 2021  Introduction to Management  3
MAR 2141  International Marketing  3
MAN 2504  International Business Environment  3
Total Business Core Credits: 27

Transportation Core Credits
TRA 1154  Supply Chain Management  3
TRA 1010  Transportation and Logistics  3
*TRA 1156  Operations Mgmt for Transportation  3
*TRA 2131  Purchasing for Logistics Managers  3
*TRA 2930  Seminar in Global Trade  1
Total Transportation Credits: 13
Total Program Credits: 64

*Requires a pre- or co-requisite. See course descriptions in this catalog or online at www.broward.edu

**Must be completed within the first 15 hours of Broward College coursework or proper score on placement test. Students electing to “test-out” of this course will be required to take CGS2100C Computer Applications or, CGS1540C Database Management.

It is strongly recommended that students see an academic advisor or counselor every term.
**GRAPHIC DESIGN**

Graphic Design AS Degree – Major Code 2192.

**Program Description**
The Graphics Design Program, offered at the Willis Holcombe Center (Downtown), is designed to prepare students for the rapidly changing computer driven graphics design industry. Primary job titles include, Web Designer, Graphic Artist, Publication Designer, Illustrator, Packaging Designer, and Advertising Creative.

**Related Programs**
Graphic Design Production Certificate Major Code 6289
Graphic Design Support Certificate Major Code 6290

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**First Year Term I (Fall)**
- ART 1201C 2-D Design 3
- ART 1300C Drawing 3
- ARH 2000 Art Appreciation or
- ARH 2050 Art History I or
- ARH 2051 Art History II (recommended) 3
- Mathematics/Science 3
- ENC 1101 English Composition 3

**Total Term Semester Credits** 15

**First Year Term II (Spring)**
- GRA 1110C Applied Design 3
- PGY 1801C Photoshop Design 3
- GRA 1151C Illustration Design 1 3
- GRA 1201C Typographic Design 3
- *GRA 1144C Web Design 1 3

**Total Term Semester Credits** 15

**Second Year Term I (Fall)**
- PGY 1802C Digital Photography 3
- GRA 2121C Publication Design 3
- GRA 2171C Branding & Ad Design 3
- *GRA 2157C Illustration Design 2 3
- *GRA 2754C Web Design 2 3

**Total Term Semester Credits** 15

**Second Year Term II (Spring)**
- *GRA 2180C Applied Design 2 3
- *GRA 2185C Design Production 3
- *GRA 2425C Portfolio & Business of Design 4

**Total Term Semester Credits** 10

**Term III (Summer)**
- *GRA 2940C Graphic Design Internship 3

**Total Term Semester Credits** 3

**Total Term Semester Credits** 64

Completion of the Graphics Technology Program will satisfy the AS degree’s computer competency standards.

* Requires a pre- or co-requisite. See course description in this catalog or online at www.broward.edu.

It is strongly recommended that students see an academic advisor or counselor every term.
**GRAPHIC DESIGN**  
Graphic Design Production Certificate Major Code 6289

**Program Description**  
The purpose of this certificate is to prepare students for employment as a graphic design assistant, graphic production artist or to provide supplemental training for persons previously or currently employed in these occupations.

**Related Programs**  
Graphics Design AS Degree Major Code 2192  
Graphic Design Support Certificate Major Code 6290

**Entrance Requirements**  
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>Certificate Requirements</th>
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<tbody>
<tr>
<td>ART 1201C 2-D Design 3</td>
<td>*Requires a pre- or co-requisite. See course description online at <a href="http://www.broward.edu">www.broward.edu</a>.</td>
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<tr>
<td>ART 1300C Drawing 3</td>
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<td>PGY 1801C Photoshop Design 3</td>
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<td>GRA 1201C Typographic Design 3</td>
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<td>GRA 1151C Illustration Design 1 3</td>
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<td>GRA 1144C Web Design 1 3</td>
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<tr>
<td>GRA 2121C Publication Design 3</td>
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<tr>
<td>PGY 1802C Digital Photography OR GRA 2171C Branding &amp; Ad Design OR</td>
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</tr>
<tr>
<td>* GRA 2157C Illustration Design 2 3</td>
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<td>Total Certificate Credits 24</td>
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**Graphic Design Support Certificate Major Code 6290**

**Program Description**  
The purpose of this certificate is to prepare students for employment as a graphic design assistant, graphic production artist or to provide supplemental training for persons previously or currently employed in these occupations.

**Related Programs**  
Graphics Design Technology Associate in Science Major Code 2192  
Graphic Design Production Certificate Major Code 6289

**Entrance Requirements**  
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

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<td>GRA 2121C Publication Design 3</td>
<td></td>
</tr>
<tr>
<td>GRA 1151C Illustration Design 1 3</td>
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</tr>
<tr>
<td>Total Certificate Credits 15</td>
<td>It is strongly recommended that students see an academic advisor or counselor every term.</td>
</tr>
</tbody>
</table>
HEALTH INFORMATION MANAGEMENT
Associate in Science Major Code 2179

Program Description
This full time two-year program of study prepares the student for employment as a health information technician (HIT) in a variety of settings and eligibility to write the national certifying examination to become a Registered Health Information Technician (RHIT). The program will also provide the student the eligibility to sit for the AAPC or AHIMA coding credentialing examinations.

Responsibilities include coding of diagnoses and procedures; as well as processing, storage and retrieval of health information in either paper or electronic health records. Areas covered in the course work include, but not limited to, confidentiality of protected health information, health information and electronic health records systems, legal aspects, statistical reporting, reimbursement methodology, healthcare informatics, performance improvement, and supervision of daily department activities comprise other functions taught in the program. Professional practice experiences are provided in local health care facilities, by simulation or in combination under the supervision of qualified professional personnel. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

The program has an articulation agreement with Atlantic and Sheridan Technical Centers for students completing the full-time Transcription or Medical Coder/Biller programs. Articulation applicants should call the Program Manager at 954-201-2890 for application information. For specific program information call the Program Manager at 954-201-2084 or go to the program website at www.broward.edu/him. Program is offered at North campus only.

General Entrance Requirements
- HS Diploma or GED/Associate Degree
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Criteria for Admission into the Associate in Science in Health Information Management Program:
- Applicant must fulfill the general requirements for admission to the Health Science Programs.
- A minimum 2.5 degree GPA is required.
- Complete the pre-requisite courses with a grade of “C” or higher.
- Students, who seek early admission, must obtain departmental approval.
- Applicants must complete the Pre-Health Science Core certificate requirements (HSC 0405 Basic Life Support (CPR), HSC 0382 HIV/AIDS, HCS 0474 Domestic Violence, and HSC 0476 TB/OSHA/Hepatitis) prior to admission to the program.
- Students will need a working knowledge of and be able to produce documents, spreadsheets, databases and presentations in Word, Excel, Access and PowerPoint.

Requirements for the Associate in Science in Health Information Management:
- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Courses must be completed in the sequence as outlined in the program of study.
- Completion of 67 program semester hours of credit and a minimum degree grade point average of 2.0 “C” or higher for all courses.

Continued on next page
HEALTH INFORMATION MANAGEMENT  
Associate in Science Major Code 2179 (cont.)

<table>
<thead>
<tr>
<th>Pre-requisite Courses:</th>
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<tr>
<td>HSC 1531 Medical Terminology</td>
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<td>ENC 1101 English Composition I</td>
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<table>
<thead>
<tr>
<th>First Year Term I</th>
</tr>
</thead>
<tbody>
<tr>
<td>*HIM 1000 Introduction to Health Info. Management</td>
</tr>
<tr>
<td>*HIM 1453 Survey of Human Structure</td>
</tr>
<tr>
<td>*HIM 1435 Pathophysiology</td>
</tr>
<tr>
<td>MAT 0024 Elementary Algebra or higher</td>
</tr>
<tr>
<td>Elective Math (MAT 1033, MAC 1105 or STA 2023) or BSC 1005 General Biology</td>
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<table>
<thead>
<tr>
<th>Second Year Term I</th>
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</thead>
<tbody>
<tr>
<td>HIM 2012 Health Records Law</td>
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<tr>
<td>*HIM 2232 Coding: II</td>
</tr>
<tr>
<td>HIM 2232L Coding II Lab</td>
</tr>
<tr>
<td>*HIM 2652 Health Information Systems</td>
</tr>
<tr>
<td>HIM 2214 Health Statistics</td>
</tr>
<tr>
<td>HIM 2512 Supervision and Organizational Life</td>
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<th>First Year Term II</th>
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<tbody>
<tr>
<td>HIM 1003 Foundation &amp; Functions of HIM</td>
</tr>
<tr>
<td>HIM 1110 Health Data Concepts</td>
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<tr>
<td>HIM 1110L Health Data Concepts Lab</td>
</tr>
<tr>
<td>*HIM 1253 Coding: I</td>
</tr>
<tr>
<td>*HIM 1253L Coding I Lab</td>
</tr>
<tr>
<td>SPC 1024 Introduction to Speech or SPC 1608 Introduction to Public Speaking</td>
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<tr>
<td>*HIM 2234 Coding: Advanced</td>
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<tr>
<td>HIM 2112C Electronic Health Record</td>
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<tr>
<td>HIM 2500 Performance Improvement</td>
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<tr>
<td>PSY 2012 Introduction to Psychology</td>
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<tr>
<th>First Year Term III</th>
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<tbody>
<tr>
<td>HIM 1260 Reimbursement Methodology</td>
</tr>
<tr>
<td>CGS 1540C Database Management</td>
</tr>
<tr>
<td>HIM 1800 Professional Practice I</td>
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<td><strong>Total Semester Hours</strong></td>
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<tr>
<th>Second Year Term III</th>
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<tbody>
<tr>
<td>HIM 2810 Professional Practice II</td>
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<tr>
<td>*HIM 2930 Transition Seminar</td>
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<tr>
<td>PHI 2600 Introduction to Ethics</td>
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<td><strong>Total Semester Hours</strong></td>
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<tr>
<td><strong>Total Program Semester Hours</strong></td>
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</table>

*Requires a pre- or co-requisite. See course description in this catalog or online at [www.broward.edu](http://www.broward.edu).

It is strongly recommended that students meet with a college academic advisor or counselor every term.
### Program Description
The Hospitality and Tourism Management programs, offered at A. Hugh Adams Central Campus, emphasize the development of management skills needed in the hospitality industry. The general education requirements of the program develop students’ abilities in communications and interpersonal skills. The use of practicum work experience provides graduates with knowledge of industry practices, which increases their value to employers. This program is only offered at A. Hugh Adams Central Campus. For more information, please contact the Program Manager at 954-201-6710.

### Related Programs
Food & Beverages Management Certificate Major Code 6301
Guest Services Specialist Certificate Major Code 6300
Rooms Division Management Certificate Major Code 6302

### Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term I
- **ENCI 1101** Composition I 3
- **MNA 1161** Introduction to Customer Service 3
- **HFT 1210** Supervisory Development 3
- **HFT 2250** Hotel Management 3
- **MTB 1103** Business Mathematics 3
- **Total Term Semester Hours** 15

### First Year Term II
- **OST 2335** Communications in the Workforce 3
- **HFT 2410** Front Office Systems/Procedures 3
- **HFT 2220** Organization and Personnel Management 3
- **HFT 2600** Hospitality Law 3
- **Elective** Mathematics or Science 3
- **Total Term Semester Hours** 15

### First Year Term III
- **Elective** Humanities/Fine Arts 3
- **#Elective** 1
- **Total Term Semester Hours** 4

### Second Year Term I
- **SPC 1024** Introduction to Speech Communication 3
- **ENCI 1102** Composition II 3
- **HFT 2500** Marketing (Hospitality) 3
- **HFT 1050** Introduction to Tourism Industries 3
- **HFT 1941** Operations and Service Practicum 3
- **Total Term Semester Hours** 15

### Second Year Term II
- **CGS 1060C** Computer and Internet Literacy 3
- **HFT 2511** Convention and Group Business Management 3
- **HFT 2460** Financial Management 3
- **PSY 2012** General Psychology 3
- **HFT 2042** Management and Control Practicum 3
- **Total Term Semester Hours** 15
- **Total Program Semester Hours** 64

*Requires a pre-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

#GEB 2430, Business Ethics or any other one-credit elective.

It is strongly recommended that students see an academic advisor or counselor every term.
HOSPITALITY AND TOURISM MANAGEMENT
Food & Beverages Management Certificate Major Code 6301

Program Description
The Food & Beverages Management Certificate is designed to qualify successful completers for upwardly mobile positions in the food & beverages industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Guest Services Specialist Certificate Major Code 6300 (6300E)
Rooms Division Management Certificate Major Code 6302

Entrance Requirements
- HS Diploma or GED
- PERT‡

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<td>Supervisory Development</td>
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</tr>
<tr>
<td>* CGS 1060C</td>
<td>Computer and Internet Literacy</td>
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<tr>
<td>HFT 2600</td>
<td>Hospitality Law</td>
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<tr>
<td>MTB 1103</td>
<td>Business Mathematics</td>
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First Year Term II
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<th>Course</th>
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<tr>
<td>HFT 2250</td>
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<td>HFT 2410</td>
<td>Front Office Systems/Procedures</td>
<td>3</td>
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<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
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<tr>
<td>OST 2335</td>
<td>Communications in the Workforce</td>
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<tr>
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First Year Term III
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<td>HFT 2220</td>
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<tr>
<td>FSS 2500</td>
<td>Food Service Costing &amp; Controls</td>
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</table>

Total Certificate Semester Hours | **30**

*CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an academic advisor or counselor every term.
HOSPITALITY AND TOURISM MANAGEMENT
Guest Services Specialist Certificate Major Code 6300 (6300E)

Program Description
The Guest Services Specialist Certificate is designed to qualify successful completers for upwardly mobile positions in the lodging industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Food & Beverages Management Certificate Major Code 6301
Rooms Division Management Certificate Major Code 6302

Entrance Requirements
- HS Diploma or GED
- PERT‡

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<tr>
<td>HFT 2250</td>
<td>Hotel Management</td>
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<td>Front Office Systems/Procedures</td>
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It is strongly recommended that students see an academic advisor or counselor every term.
HOSPITALITY AND TOURISM MANAGEMENT
Rooms Division Management Certificate Major Code 6302

Program Description
The Rooms Division Management Certificate is designed to qualify successful completers for upwardly mobile positions in the lodging industry.

Related Programs
Hospitality and Tourism Management Associate in Science Degree Major Code 2121
Food & Beverages Management Certificate Major Code 6301
Guest Services Specialist Certificate Major Code 6300
(6300E)

Entrance Requirements
- HS Diploma or GED
- PERT‡

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<td>MTB 1103 Business Mathematics</td>
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<tr>
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<tbody>
<tr>
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<td>HFT 2410 Front Office Systems/Procedures</td>
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<td>MNA 1161 Introduction to Customer Service</td>
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<td>OST 2335 Communications in the Workforce</td>
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</table>

Total Certificate Semester Hours 30

It is strongly recommended that students see an academic advisor or counselor every term.
INDUSTRIAL MANAGEMENT TECHNOLOGY
Industrial Management Associate in Science Degree Major Code 2194

Program Description
This program, offered at the Judson A. Samuels South Campus, provides students, who have obtained competency in a variety of fields, an opportunity to pursue college level education that is appropriate for management roles and upward mobility in their respective fields.

For additional information and the procedure for the transfer of credits for this program, contact the Industrial Management Technology Program Manager at 954-201-8601 or email imtech@broward.edu

Entrance Requirements
- HS Diploma or GED
- PERT‡

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Academic Core Courses Required
*ENC 1101 English Composition I 3
Elective Humanities/Fine Arts (Area 2) 3
Elective Social/Behavioral Sciences (Area 3) 3
MAC 1105 College Algebra 3
SPC 1024 Intro to Speech Communication or 3
SPC 1608 Introduction to Public Speaking 3
**CGS 1060C Computer and Internet Literacy 3
Total Academic Core Credits 18

Technical Course Requirements
MAN 2021 Introduction to Management 3
MNA 1161 Introduction to Customer Service 3
MNA 2345 Principles of Supervision 3
OST 2335 Communications in the Workforce or 3
*ENC 2210 Professional and Technical Writing 3
MNA 2905 Independent Studies in Industrial Management or 3
MNA 2949 Co-op Work Experience 3
#MNA 1948 Industrial Technical Practicum 27
Total Technical Course Credits 42
Total AAS Degree Credits 60

*Requires a pre- or co-requisite. See course description online at www.broward.edu.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an academic advisor or counselor every term.

Special Note:
#For both the AAS and AS programs, twenty seven (27) credits will be awarded to students who successfully complete one of the 1300 clock hour or greater technical programs listed below at Atlantic Technical Center 754-321-5100, McFatter Technical Center 954-321-5700, or Sheridan Technical Center 754-321-5400. Contact the IMT program manager at 954-201-8601 for the procedure to obtain 27 credits for MNA 1948.

- Air Conditioning, Refrigeration/Heating Technology
- Applied Welding Technology
- Apprenticeship Programs (State Approved)
- Automotive Collision Repair and Refinishing
- Boat and Yacht Repair/Refinishing Technology
- Printing and Graphic Arts
- Television Production
- Building Construction Management
- Commercial Art Technology
- Commercial Foods and Culinary Arts
- Commercial Photography Technology
- Computer Electronics Technology
- Cosmetology
- Court Reporting
- Drafting
- Heavy Duty Truck and Bus Mechanics
- Industrial Electricity
- Machining Technology
- Marine Service Technology
- Plumbing Technology

Technical education teachers who have completed the Broward County Public Schools ACTIVE Program may substitute vocational education coursework for Technical Education Core Courses.
INTERNET SERVICES TECHNOLOGY
Internet Services Technology Associate in Science Major Code 2196

Related Programs
Web Development Specialist Technical Certificate Major Code 6285

Entrance Requirements
- HS Diploma or GED
- PERT‡

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<tr>
<th>First Year, Term I</th>
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<tbody>
<tr>
<td>ART 1201C 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1212C Adobe Photoshop1</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1851C Certified Internet Webmaster Foundations1</td>
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</tr>
<tr>
<td>CTS 1800C Adobe Dreamweaver2</td>
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<td>ENC 1101 Composition</td>
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</thead>
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<td>3</td>
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<tr>
<td>CTS 1802C Cascading Style Sheets2</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102 Composition II1 or ENC 2210 Professional and Technical Writing1</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year, Term III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 2854 CTW E-Commerce Strategies and Practices I2</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2855C CTW E-Commerce Strategies and Practices II4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term Semester Hours</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year, Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 1000C Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CS/BUS Computer Science/Business Elective*</td>
<td>3</td>
</tr>
<tr>
<td>CS/BUS Computer Science/Business Elective*</td>
<td>3</td>
</tr>
<tr>
<td>SOC/BEH Social/Behavioral Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024 Introduction to Speech Communications or SPC 1608 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Semester Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year, Term II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 1513C Project Management1</td>
<td>3</td>
</tr>
<tr>
<td>CS/BUS Computer Science/Business Elective*</td>
<td>3</td>
</tr>
<tr>
<td>CS/BUS Computer Science/Business Elective*</td>
<td>3</td>
</tr>
<tr>
<td>GEB 2430 Business Ethics</td>
<td>1</td>
</tr>
<tr>
<td>HUM/FA Humanities/Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Semester Hours</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

| Total Program Semester Hours        | **63** |

* CGS1060C, ART2205, or any course with a CIS, COP, CTS, ECO, MAR or MNA prefix

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree

It is strongly recommended that students see an academic advisor every term.

Prerequisite – CGS 1060C (with a grade of C or higher) or Placement
Prerequisite – CTS 1851C (with a grade of C or higher)
Prerequisite – ENC 1101
Prerequisite – CTS 2854 (with a grade of C or higher)
INTERNET SERVICES TECHNOLOGY
Web Development Specialist Technical Certificate Major Code 6285

**Related Programs**
Internet Services Technology Associate in Science Major Code 2196
Internet Services Technology Associate in Applied Science Major Code A036

**Entrance Requirements**
- HS Diploma or GED

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1201C</td>
<td>2D Design</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1212C</td>
<td>Adobe Photoshop¹</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1851C</td>
<td>Certified Internet Webmaster Foundations¹</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1800C</td>
<td>Adobe Dreamweaver²</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1801C</td>
<td>Adobe Flash²</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1802C</td>
<td>Cascading Style Sheets²</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2854</td>
<td>CIW E-Commerce Strategies and Practices I²</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2855C</td>
<td>CIW E-Commerce Strategies and Practices II³</td>
<td>4</td>
</tr>
<tr>
<td>CIS 1513C</td>
<td>Project Management¹</td>
<td>3</td>
</tr>
<tr>
<td>CS/BUS</td>
<td>Computer Science / Business Elective*</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Semester Hours** 35

**Prerequisites**

- PERT‡
  - The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

- CGS1060C, ART2205, or any course with a CIS, COP, CTS, ECO, MAR or MNA prefix

1 Prerequisite – CGS 1060C (with a grade of C or higher) or Placement
2 Prerequisite – CTS 1851C (with a grade of C or higher)
3 Prerequisite – CTS 2854 (with a grade of C or higher)

It is strongly recommended that students see an academic advisor every term.
LEGAL ASSISTING (Paralegal Studies)  
Associate in Science Major Code 2172

Program Description
The Legal Assisting (Paralegal Studies) Associate in Science Degree, offered at the South and North Campuses, is a program designed for students seeking a career in a law-related field as a paraprofessional. This program is approved by the American Bar Association (ABA). Upon successful completion of this program, a student will be able to work under the supervision of an attorney and perform many vital functions as a legal assistant (paralegal). Legal Assistants may be responsible for interviewing, investigation, research, document preparation, and other tasks. They cannot, however, engage in the actual practice of law by doing such activities as giving legal advice, setting fees, negotiating, or representing clients in court. Legal assistants work under the supervision of an attorney and perform many vital functions.

Entrance Requirements
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Program Graduation Requirements
- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Completion of 64 semester credit hours curriculum plan listed below with a degree GPA of 2.0 or higher.
- Complete all courses with a grade of “C” or higher.
- At least 25% of the total credits for the Associate of Science degree in Legal Assisting must be earned at Broward College, of which at least 12 credit hours must comprise Broward College legal specialty courses.

General Provisions
Broward College’s Legal Assisting Program honors credits for courses taken at other institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education that participate in the Florida statewide course numbering system and are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to legal specialty courses offered at Broward College. All other legal specialty courses that are completed and transcripted from either an accredited institution or an ABA-approved program will be evaluated by the Program Manager for specific course equivalencies and how accepted credit will be applied toward specific degree requirements. No student shall be awarded credit for legal specialty courses by exam or experiential learning.

For additional information, contact the Program Manager at Judson A. Samuels South Campus, 954-201-8930 or the Business Administration office at Judson A. Samuels South Campus 954-201-8933 or the Business Administration office at North Campus, 954-201-2360.

First Year Term I
*ENC 1101 Composition I 3  
**CGS 1060C Computer and Internet Literacy or #OST2764 Info/Word Processing 3  
BUL 2241 Business Law I 3  
*PLA 1003 Introduction to Legal Assisting 3  
*PLA 1104 Law Library 3  
Total Term Semester Hours 15

First Year Term II
*PLA 1303 Criminal Litigation 3  
*PLA 1435 Corporations 3  
*PLA 2466 Debtor/Creditor Relations 3  
*PLA 1201 Civil Litigation 3  
*PLA 2114 Legal Writing and Drafting 3  
Total Term Semester Hours 15

First Year Term III, Session II and/or Session III
Humanities/Fine Arts Elective 3  
GEB 2430 Business Ethics 1  
Total Term Semester Hours 4

Second Year Term I
*PLA 1841 Immigration Law 3  
OST 2335 Communication in the Workforce 3  
ECO 2013 Principles of Economics 3  
*PLA 1610 Procedures for Real Estate Title Closing 3  
PSY 2012 General Psychology or SYG 2000 Principles of Sociology 3  
Total Term Semester Hours 15

Second Year Term II
SPC 1608 Public Speaking 3  
*PLA 1600 Probate Practice 3  
*PLA 1800 Domestic Relation Law 3  
(1)Elective Mathematics or Science 3  
(2)Electives or Practicum 3  
Total Term Semester Hours 15  
Total Program Semester Hours 64

*Requires a pre- or co-requisite. See course description in this catalog or online at www.broward.edu

Continued on next page
**CGS1060C must be completed within the first 15 hours of Broward College coursework.**

#OST 2764C, Info/Word Processing Applications is not transferable to A.A. Degree.

(1) Must be a transferable mathematics or science course.

(2) Electives are satisfied by taking one (1) of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGL 1062 Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>MTB 1103 Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>SPN 1000 Elem. Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>*PLA 2930 Selected Topics in Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2242 Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>FIN 1100 Personal Finance or</td>
<td>3</td>
</tr>
<tr>
<td>PLA 2940 Legal Assisting Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>
**Program Description**
The Marine Engineering Management degree is designed to prepare students interested in a career in the large yacht maintenance, repair and retrofit industry. Broward County is the world leader in the yacht industry and is in high demand of qualified technicians to work on yachts with diesel engines and sophisticated sustainable systems. Completers of the program may be employed in boat yards working on multi-million dollar vessels and the latest technology in marine equipment. The lifestyle may also include being part of the on-board crew and traveling around the world. Career advancement in management is a probable progression in the field.

**Related Programs**
Marine Technology – Technical Certificate Major Code 6306

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**Technical Course Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE 1004C</td>
<td>Intro to Marine Technology</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1400C</td>
<td>Marine Electricity</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2490C</td>
<td>Marine Electronics</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1018C</td>
<td>Rigging &amp; Make Ready</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1040C</td>
<td>Marine Diesel 1</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2041C</td>
<td>Marine Diesel 2</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1542C</td>
<td>A/C &amp; Refrigeration Systems</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2541C</td>
<td>Marine Aux Systems</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1167C</td>
<td>Marine Fuel Systems, Diesel and Gas</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2234C</td>
<td>Inboard/Outboard Saildrive</td>
<td>3</td>
</tr>
<tr>
<td>MTE 1312C</td>
<td>Advanced Marine Composites</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2420C</td>
<td>Advanced Electricity</td>
<td>3</td>
</tr>
<tr>
<td>MTE 2949</td>
<td>Marine Internship Co-op</td>
<td>2</td>
</tr>
</tbody>
</table>

It is recommended that you see an advisor, counselor or the program manager every term.

**Academic Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MNA1161</td>
<td>Intro to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>SPC1024</td>
<td>Intro to Speech</td>
<td>or</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Intro to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1025</td>
<td>Intro to Chemistry</td>
<td>and</td>
</tr>
<tr>
<td>CHM 1025L</td>
<td>Intro to Chemistry Lab or</td>
<td></td>
</tr>
<tr>
<td>PHYS1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS1001L</td>
<td>Applied Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Intro to Management</td>
<td>3</td>
</tr>
<tr>
<td>Social /Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 66

**Academic Core Courses**

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.
MARINE ENGINEERING
Marine Technology – Technical Certificate Major Code 6306

Program Description
The Marine Technology Certificate is designed to prepare students interested in a career in the large yacht maintenance, repair and retrofit industry. Broward County is the world leader in the yacht industry and is in high demand of qualified technicians to work on yachts with diesel engines and sophisticated sustainable systems. Completers of the program may be employed in boat yards working on multi-million dollar vessels and the latest technology in marine equipment. The lifestyle may also include being part of the on-board crew and traveling around the world. Career advancement in management is a probable progression in the field.

Related Programs
Marine Engineering Management - Associate in Science Major Code 2198

Entrance Requirements
• HS Diploma or GED
• PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

MTE1004C  Introduction to Marine Technology ............3
MTE1018C  Rigging and Make Ready ................................3
MTE1040C  Marine Diesel Engines I ..........................3
MTE1167C  Marine Fuel Systems, Diesel & Gas ...........3
MTE1312C  Advanced Marine Composites,
Painting & Refinish..........................................................3
MTE1400C  Marine Electricity .........................................3
MTE2041C  Diesel Engines II .......................................3
MTE2234C  Inboard/Outboard Saildrive
and Transmissions..............................................................3
MTE2420C  Advanced Electrical Systems .....................3
MTE2490C  Marine Electronics .......................................3
MTE1651C  Basic Welding ..............................................4

Total Semester Hours ..............................................34

It is recommended that you see an advisor, counselor or the program manager every term.
## MARKETING MANAGEMENT
Marketing Management Associate in Science Major Code 2126

### Program Description
The Associate in Science degree in Marketing Management, offered at all BC locations, emphasizes the development of management and leadership skills needed in marketing occupations such as advertising, selling, entrepreneurship, and international business. This program enables students to transfer to senior institutions that offer a bachelor’s degree in marketing.

### Related Programs
Marketing Operations Technical Certificate Major Code 6240

### Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### General Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013</td>
<td>Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>HSC 1101C</td>
<td>Introduction to Healthful Living</td>
<td>1</td>
</tr>
<tr>
<td>**CGS 1060C</td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>(1)Elective</td>
<td>Mathematics or Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 19

### Specialized Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1930</td>
<td>Seminar I: Marketing in Perspective</td>
<td>3</td>
</tr>
<tr>
<td>MKA 2931</td>
<td>Seminar II: Research in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce</td>
<td>3</td>
</tr>
<tr>
<td>MKA 2932</td>
<td>Seminar III: Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MAR 2141</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MKA 2042</td>
<td>Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1511</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1021</td>
<td>Salesmanship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 45

**Total Program Semester Hours** 64

Business Electives are satisfied by taking four (4) of the following courses:  GEB2112, MNA 1821C, MTB1103, BUL2241, MAN2604, FIN2051, MAN2021, MNA1134, or MKA2949.

Students who test into college preparatory courses must successfully complete all required college preparatory courses to qualify for graduation.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**

*Requires a pre-requisite or proper score on placement test. See course description online at [www.broward.edu](http://www.broward.edu).

**(1)Must be college-level, transferable mathematics or science elective.

It is strongly recommended that students see an academic advisor or counselor every term.
MARKETING MANAGEMENT
Marketing Operations Technical Certificate Major Code 6240

Related Programs
Marketing Management Associate in Science Major Code 2126

Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 1011 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1021 Salesmanship</td>
<td>3</td>
</tr>
<tr>
<td>MKA 1930 Seminar I: Marketing in Perspective</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1821C Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MKA 1511 Advertising</td>
<td>3</td>
</tr>
<tr>
<td>MAR 2141 International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161 Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>+MKA 2042 Retailing or #GEB 2112 Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Option Semester Hours</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Total Certificate Semester Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

*Requires a pre-requisite. See course description online at www.broward.edu.

+Offered once per year at North Campus only.

#Offered at A. Hugh Adams Central Campus and North Campus.
MASSAGE THERAPY
Vocational Certificate Major Code 5281

Program Description
The Massage Therapy Program is one of over twenty (20) health career programs offered at the Center for Health Science Education of Broward College, North Campus. The program was approved by the Florida Board of Massage to grant Vocational Certificates allowing our graduates to sit for the licensing examination; and upon achieving a passing score, apply to the Board for licensure. Our program is dedicated to developing therapists who are quality-minded and who will ultimately make unique contributions to the field of massage therapy.

The Massage Therapist is a skilled professional who administers massage for compensation to patients/clients directly or by physician’s prescription. “Massage” means the manipulation of the soft tissues of the human body with the hand, foot, arm, or elbow, whether or not such manipulation is aided by hydrotherapy, including colonic irrigation, or thermal therapy; any electrical or mechanical devise; or the application to the human body of a chemical or herbal preparation. [Florida State Statutes Chapter 480.033(3)]. This program is a 10 month full-time day or evening program.

For application information please call advisement at 954-201-2305 to make an appointment with our advisor. For specific program information please call the Program Manager at 954 201-2074.

Please see our web site for more information: www.broward.edu/massage

Entrance Requirements
• HS Diploma or GED
• TABE‡
‡ The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math require by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

Criteria for the Vocational Certificate in Massage Therapy:
• Apply and meet requirements for admission to Broward College
• Apply and meet requirements of the Health Science Admission Application for Massage Therapy
• Obtain TABE assessment scores at or above the state mandated grade level unless exempt
• Complete the Health Science Certificate Courses by the end of the first semester
• Complete all lecture courses with a grade of “C” or higher
• Complete all lab courses with a grade of “S”
• Maintain a minimum program GPA of 2.0
• It is strongly recommended that students see an academic advisor each term

<table>
<thead>
<tr>
<th>Summer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP 0001</td>
<td>Health Careers Core 75</td>
</tr>
<tr>
<td>HSC0405</td>
<td>Basic Life Support 8</td>
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<tr>
<td>HSC0591</td>
<td>HIV/AIDS 4</td>
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<tr>
<td>HSC0691</td>
<td>Domestic Violence 2</td>
</tr>
<tr>
<td>HSC0522</td>
<td>OSHA/TB 6</td>
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<tr>
<td>HSC0692</td>
<td>Medical Errors 2</td>
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<tr>
<td><strong>Total Term Clock Hours</strong></td>
<td>95</td>
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<table>
<thead>
<tr>
<th>Term I</th>
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<tbody>
<tr>
<td>*MSS 0250</td>
<td>Introduction to Massage Therapy 15</td>
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<tr>
<td>*MSS 0250L</td>
<td>Introduction to Massage Therapy Lab 140</td>
</tr>
<tr>
<td>*MSS 0001</td>
<td>Medical Ethics &amp; Standards 15</td>
</tr>
<tr>
<td>*MSS 0150</td>
<td>Anatomy &amp; Physiology of Body Systems 75</td>
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<tr>
<td>*MSS 0156</td>
<td>Anatomy &amp; Physiology II 45</td>
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<tr>
<td>*MSS 0156L</td>
<td>Anatomy &amp; Physiology II Lab 60</td>
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<td><strong>Total Term Clock Hours</strong></td>
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<tbody>
<tr>
<td>*MSS 0281</td>
<td>Allied Modalities 15</td>
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<tr>
<td>*MSS 0281L</td>
<td>Allied Modalities Lab 120</td>
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<tr>
<td>*MSS 0803L</td>
<td>Massage Therapy Clinical Practicum 110</td>
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<td>*MSS 0301</td>
<td>Hydrotherapy Modalities 15</td>
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<td>*MSS 0301L</td>
<td>Hydrotherapy Modalities Lab 45</td>
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</table>

*Requires a Pre- or co-requisite course. See course description online at www.broward.edu.

It is strongly recommended that students see an academic advisor or counselor each term.
MEDICAL ASSISTING
Vocational Certificate Major Code 5215

Program Description
The Medical Assisting Program is a 10-month full-time day vocational certificate program. The Broward College Medical Assisting Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE).

Commission on Accreditation of Allied Health Education Programs
1361 Park Street
Clearwater, FL 33756
727-210-2350

Students are placed into practicums in physicians' offices throughout Broward County which offer maximum flexibility. The practicum course has been especially designed to meet the individual needs of the student, thus allowing for the development of specific skills within a chosen interest or specialty area. The role of the Medical Assistant within the physician's office is varied, demanding, and complex. Duties and responsibilities may encompass those skills of administrator, clinician, or technician. In many instances, the Medical Assistant functions in all three areas, while also serving as a public relations specialist.

Upon completion of this ten (10) month program the student will be eligible to write the national certification exam of the American Association of Medical Assistants to obtain the credential of Certified Medical Assistant (CMA-AAMA).

Criteria for Admission into Medical Assisting Vocational Certificate:
Applicants must fulfill the requirements for admission to Health Science programs. Applicants are also required to demonstrate a typing proficiency of 35WPM with 5 errors or less on a 5 minutes time-writing typing test. For typing test information and to schedule an appointment please call the office of the program manager at 954-201-6906. Applicants meeting all admission criteria, except their typing skill, may receive a preliminary acceptance until proof of their typing skill is on file with the Medical Assisting Department. All questions regarding admissions should be directed to the Health Science Admission Office at healthscience@broward.edu, 954-201-2058 or 2090.

Requirements for the Vocational Certificate in Medical Assisting:
Completion of 1204 clock hours, 6 college semester hours (96 contact hours), a grade point average of 2.0 or higher and obtain TABE Assessment scores at or above the state mandated grade level (for TABE: test information please call the Central Campus Testing Center at 954-201-6982). No grade lower than "C" will be acceptable in ALL courses required for the Medical Assisting Certificate.

Other Entrance Requirements

<table>
<thead>
<tr>
<th>Qualification needed to be eligible for program</th>
<th>Test required to enter program</th>
<th>Campus(es) offering this program</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS Diploma/GED</td>
<td>TABE*</td>
<td>Central</td>
</tr>
</tbody>
</table>

† The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math required by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

Note: To successfully progress through the Medical Assisting Program, students must achieve a grade of "C" or above in all didactic courses, an "S" (satisfactory) grade in all clinical and laboratory courses, maintain an overall degree GPA of at least 2.0.

Pre-requisite Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP 0001</td>
<td>Health Careers Core Curriculum</td>
<td>75</td>
</tr>
<tr>
<td>HSC 0405</td>
<td>Basic Life Support</td>
<td>8</td>
</tr>
<tr>
<td>HSC 0591</td>
<td>HIV/AIDS</td>
<td>4</td>
</tr>
<tr>
<td>HSC 0691</td>
<td>Domestic Violence</td>
<td>2</td>
</tr>
<tr>
<td>HSC 0522</td>
<td>OSHA/TB</td>
<td>6</td>
</tr>
<tr>
<td>HSC 0692</td>
<td>Prevention of Medical Errors</td>
<td>2</td>
</tr>
<tr>
<td>HSC 0693</td>
<td>All Hazards Training</td>
<td>4</td>
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<td></td>
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Term I Session I

<table>
<thead>
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<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>MEA 0233</td>
<td>Anatomy and Physiology</td>
<td>48</td>
</tr>
<tr>
<td>*MEA 0334</td>
<td>Admin Office Procedures</td>
<td>64</td>
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<td>*MEA 0334L</td>
<td>Admin. Office Proc Lab</td>
<td>48</td>
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<tr>
<td>MEA 0258</td>
<td>Radiology for Med Assist I</td>
<td>64</td>
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Term I, Session II

<table>
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<tr>
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<th>Course Title</th>
<th>Clock Hours</th>
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</thead>
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<tr>
<td>*MEA 0255</td>
<td>Basic Lab Procedures I</td>
<td>48</td>
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<tr>
<td>*MEA 0255L</td>
<td>Basic Lab Procedures I Lab</td>
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<td></td>
<td>Total Term Clock Hours</td>
<td>96</td>
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Term I Session IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>*MEA 0256</td>
<td>Basic Lab Procedures II</td>
<td>48</td>
</tr>
<tr>
<td>*MEA 0256L</td>
<td>Basic Lab Procedures II Lab</td>
<td>48</td>
</tr>
<tr>
<td>*MEA 0005</td>
<td>Intro to Medical Assisting</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Total Term Clock Hours</td>
<td>128</td>
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Continued on next page
### MEDICAL ASSISTING
Vocational Certificate Major Code 5215 (cont.)

<table>
<thead>
<tr>
<th>Term II, Session I</th>
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<tbody>
<tr>
<td>MEA 0204</td>
<td>Clinical Proc I</td>
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<tr>
<td>MEA 0204L</td>
<td>Clinical Proc I Lab</td>
</tr>
<tr>
<td>MEA 0259</td>
<td>Radiography for MA II</td>
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<tr>
<td>MEA 0259L</td>
<td>Radiography for MA II Lab</td>
</tr>
<tr>
<td>MEA 0242</td>
<td>Pharmacology for MA</td>
</tr>
<tr>
<td>MEA 0540</td>
<td>Electrocardiography for MA</td>
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<tr>
<td>MEA 0540L</td>
<td>Electrocardiography Lab</td>
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**Total Term Clock Hours** 379

<table>
<thead>
<tr>
<th>Term II Session II</th>
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</tr>
</thead>
<tbody>
<tr>
<td>*MEA 0382</td>
<td>Law and Ethics</td>
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**Total Semester Clock Hours** 32

<table>
<thead>
<tr>
<th>Term III Session II (2)*</th>
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<tbody>
<tr>
<td>MEA 0800 Practicum in Medical Assisting</td>
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</tr>
<tr>
<td>MEA 0952 Seminar in Medical Assisting</td>
<td>38</td>
</tr>
</tbody>
</table>

**Total Semester Clock Hours** 244

**CGS 1060C** Computer and Internet Literacy 3

**Total Semester Credits** 6

**Total Clock Hours** 1204

**Total Program Clock Hours** 1300

* Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu.

**Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

(1) Students must submit proof of typing 35 WPM to the Medical Assisting Department before the end of Term I. Failure to provide this documentation will prevent the student from continuing in the program.

(2) Verification of CPR is required before graduating. CPR and First Aid will be taught by the Continuing Education Department.
NETWORKING SERVICES TECHNOLOGY
Network Services Technology Associate in Science Major Code 2201

Related Programs
Cisco CCNA Technical Certificate Major Code 62387
Microsoft MCITP – Server Administrator Technical Certificate Major Code 6283
Network Support Technician Technical Certificate Major Code 6282

*Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

Entrance Requirements

General Education Requirements: 15
ENC 1101 Composition 3
MAC 1105 College Algebra 3
SPR 1024 Introduction to Speech Communications or
SPC 1608 Public Speaking 3
Elective Humanities / Fine Arts 3
Elective Social / Behavioral Science 3

Networking Services Core Courses: 16
CIS 1000C Introduction to Computer Science 3
CTS 1133C A+ Essentials 3
CTS 2131C A+ Practical 1 3
CS Elective Computer Science Elective * 4
ENC 2210 Professional and Technical Writing 2 3

Areas of Specialization (choose one): 32

Microsoft MCITP – Enterprise Administrator
CTS1134C Network+ 4
CTS2120C Security+ 4
CTS3276C Microsoft Windows Client 4 4
CTS3137C Implementing Windows Infrastructure 5 4
CTS2345C Microsoft Windows Active Directory 6 4
CTS2364C Microsoft Windows Server Administration 7 4
CTS2343C Microsoft Windows Application Infrastructure 4
CTS2342C Microsoft Windows Enterprise Administration 9 4

or

Cisco CCNP
CET 1630C Network Cabling Technologies 4
CET 1600C Cisco Networking I 10 4
CET 1610C Cisco Networking II 11 4
CET 1615C Cisco Networking III 12 4
CET 1620C Cisco Networking IV 13 4
CET 2625C Cisco CCNP I - Routing 14 4
CET 2627C Cisco CCNP II - Switching 15 4
CET 2628C Cisco CCNP III - Troubleshooting 16 4

Network Support Specialist
CTS1134C Network+ 4
CET 1630C Network Cabling Technologies 4
CTS1327C Microsoft Windows Client 4
CTS3137C Implementing Windows Infrastructure 5 4
CET 1600C Cisco Networking I 10 4
CET 1610C Cisco Networking II 11 4
CTS 1111C Linux+ 4
CTS 2120C Security+ 4

Total Program Credits 63

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

1. Prerequisite – CTS1133C (with a grade of C or higher)
2. Prerequisite – ENC 1101
3. Prerequisite – CTS1134C (with a grade of C or higher)
4. Prerequisites – CTS1133C and CTS2131C (each with a grade of C or higher)
5. Prerequisites – CTS1327C and CTS1134C (each with a grade of C or higher)
6. Prerequisite – CTS1347C (with a grade of C or higher)
7. Prerequisite – CTS2345C (with a grade of C or higher)
8. Prerequisite – CTS2346C (with a grade of C or higher)
9. Prerequisite – CTS2343C (with a grade of C or higher)
10. Prerequisites – CTS1133C and CTS2131C (each with a grade of C or higher); Pre-/Co-requisite – CET 1630C
11. Prerequisites – CET 1600C and CET 1630C (each with a grade of C or higher)
12. Prerequisite – CET 1610C (with a grade of C or higher)
13. Prerequisite – CET 1615C (with a grade of C or higher)
14. Prerequisite – CET 1620C (with a grade of C or higher)
15. Prerequisite – CET 2625C (with a grade of C or higher)
16. Prerequisites – CET 2625C and CET 2627C (each with a grade of C or higher)

It is strongly recommended that students see an academic advisor every term.

Note: Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CG1060C to earn the degree.
# NETWORKING SERVICES TECHNOLOGY

**Cisco CCNA Technical Certificate Major Code 62387**

## Related Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Major Code</th>
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</thead>
<tbody>
<tr>
<td>Network Services Technology Associate in Science Major</td>
<td>2201</td>
</tr>
<tr>
<td>Microsoft MCITP – Server Administrator Technical Certificate Major</td>
<td>6283</td>
</tr>
<tr>
<td>Network Support Technician Technical Certificate Major</td>
<td>6282</td>
</tr>
</tbody>
</table>

§Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

## Entrance Requirements

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CTS 1133C</td>
<td>A+ Essentials</td>
<td>3</td>
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<tr>
<td>CTS 2131C</td>
<td>A+ Practical</td>
<td>3</td>
</tr>
<tr>
<td>CET 1630C</td>
<td>Network Cabling Technologies</td>
<td>4</td>
</tr>
<tr>
<td>CET 1600C</td>
<td>Cisco Networking I</td>
<td>4</td>
</tr>
<tr>
<td>CET 1610C</td>
<td>Cisco Networking II</td>
<td>4</td>
</tr>
<tr>
<td>CET 1615C</td>
<td>Cisco Networking III</td>
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</tr>
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<td>CET 1620C</td>
<td>Cisco Networking IV</td>
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</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective *</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Program Semester Hours** 30

* CET 2660C, or any course with a CIS, COP, or CTS prefix

1. Prerequisite – CTS1133C (with a grade of C or higher)
2. Prerequisites – CTS1133C and CTS2131C (each with a grade of C or higher); Pre-/Co-requisite – CET 1630C
3. Prerequisites – CET 1600C and CET 1630C (each with a grade of C or higher)
4. Prerequisite – CET 1610C (with a grade of C or higher)
5. Prerequisite – CET 1615C (with a grade of C or higher)

It is strongly recommended that students see an academic advisor every term.
NETWORKING SERVICES TECHNOLOGY
Microsoft MCITP – Server Administrator Technical Certificate Major Code 6283

**Related Programs**
Network Services Technology Associate in Applied Science Major Code A038
Network Services Technology Associate in Science Major Code 2201
Cisco CCNA Technical Certificate Major Code 62387
Network Support Technician Technical Certificate Major Code 6282

§ Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 1133C</td>
<td>A+ Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CTS 2131C</td>
<td>A+ Practical †</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>Network+</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1327C</td>
<td>Microsoft Windows Client ²</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1347C</td>
<td>Implementing Windows Infrastructure³</td>
<td>4</td>
</tr>
<tr>
<td>CTS 2345C</td>
<td>Microsoft Windows Active Directory⁴</td>
<td>4</td>
</tr>
<tr>
<td>CTS 2346C</td>
<td>Microsoft Windows Server Administration⁵</td>
<td>4</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective *</td>
<td>4</td>
</tr>
</tbody>
</table>

* Any course with a CIS, COP, or CTS prefix

1. Prerequisite - CTS 1133C (with grade of C or higher)
2. Prerequisites - CTS 1133C and CTS 2131C (each with grade of C or higher)
3. Prerequisites - CTS 1327C and CTS 1134C (each with grade of C or higher)
4. Prerequisite – CTS 1347C (with grade of C or higher)
5. Prerequisite – CTS 2345C (with grade of C or higher)

It is strongly recommended that students see an academic advisor every term.

**Total Program Semester Hours** 30
NETWORKING SERVICES TECHNOLOGY
Network Support Technician Technical Certificate Major Code 6282

Related Programs
Network Services Technology Associate in Science Major Code 2201
Cisco CCNA Technical Certificate Major Code 62387
Microsoft MCITP – Server Administrator Technical Certificate Major Code 6283

Students can earn a certificate from 6282, 6283, or 62387, but not from two or more of these programs.

Entrance Requirements

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CTS 1133C</td>
<td>A+ Essentials</td>
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<tr>
<td>CTS 2131C</td>
<td>A+ Practical</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1134C</td>
<td>Network+</td>
<td>4</td>
</tr>
<tr>
<td>CET 1630C</td>
<td>Network Cabling Technologies</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1327C</td>
<td>Microsoft Windows Client</td>
<td>4</td>
</tr>
<tr>
<td>CTS 1111C</td>
<td>Linux+</td>
<td>4</td>
</tr>
<tr>
<td>CTS 2120C</td>
<td>Security+</td>
<td>4</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Computer Science Elective *</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Program Semester Hours 30

* Any course with a CIS, COP, or CTS prefix
1. Prerequisite-CTS 1133C (with grade of C or higher)
2. Prerequisites-CTS 1133C and CTS 2131C (each with grade of C or higher)
3. Prerequisite- CTS 1134C (with grade of C or higher)

It is strongly recommended that students see an academic advisor every term.
NUCLEAR MEDICINE TECHNOLOGY
Nuclear Medicine Technology Associate in Science Major Code 2102

Program Description
Nuclear Medicine Technologists prepare and administer radiopharmaceuticals to patients and perform diagnostic procedures on virtually every organ system in the human body by using highly sophisticated computerized detection systems to produce and process images.

This Associate in Science degree program is a two-year full-time day program. Applicants shall complete the first year General Education Requirements prior to the second year of the program. Upon completion of this degree program, the student will be eligible for the Nuclear Medicine National Board Certification Exam. They are offered by, the American Registry of Radiologic Technologists (ARRT) and/or the Nuclear Medicine Technology Certification Board (NMTCB). The program is offered in building 41, BC North Campus, 1000 Coconut Creek Boulevard, Coconut Creek, FL.

Clinical Education is performed in medical facilities such as outpatient centers and hospitals and is offered concurrently with the didactic courses.

Related Programs
Nuclear Medicine Technology Specialist Technical Certificate Major Code 6224

General Entrance Requirements
- HS Diploma or GED
- PERT

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Criteria for Admission to Associate in Science Degree in Nuclear Medicine Technology:
- Students must first gain admission to Broward College as described in the Admissions Procedures section of the College Catalog.
- Students must fulfill the Health Science Admission Requirements listed in the Health Science Programs and Policies section of the College Catalog.
- Students must complete (or transfer in from another school) pre-requisite courses with a “C” grade or higher prior to submitting a Health Science Limited Access Application to the Nuclear Medicine Program. A minimum 2.5 degree GPA is required to apply to the program.
- Students must complete (or transfer in an equivalent course from another school/provider) the Pre-Health Science Core requirements prior to starting the program in August:
  - HCP 0001 (Health Careers Core Curriculum)
  - HSC 0405 (Basic Life Support (CPR) Students)
  - HSC 0522 (Tuberculosis/OSHA/Hepatitis For Students)
  - HSC 0591 (HIV/AIDS Students)
  - HSC 0691 (Domestic Violence For Students)
  - HSC0692 (Prevention of Medical Errors)

Criteria for Admission to the Nuclear Medicine Program:
After satisfying the admission requirements, the selection of students for the program will be based on a point system. Points will be awarded for the number of courses completed toward the AS Degree in Nuclear Medicine. Only those courses required for the AS Degree in Nuclear Medicine (exclusive of the prerequisite courses & pre-health science core requirements) will be used to award points. One point will be awarded for each course successfully completed with a minimum of a “C” (or “S”) grade regardless of the number of credits. The points awarded for courses completed at BC or that are transferred in as equivalent are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Course Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BSC 1086 Anatomy &amp; Physiology II</td>
<td>1 point</td>
</tr>
<tr>
<td>2</td>
<td>BSC 1086L Anatomy &amp; Physiology II Lab</td>
<td>1 point</td>
</tr>
<tr>
<td>3</td>
<td>Humanities/Fine Arts Elective</td>
<td>1 point</td>
</tr>
<tr>
<td>4</td>
<td>Social/Behavioral Science Elective</td>
<td>1 point</td>
</tr>
<tr>
<td>5</td>
<td>SPC 1024 Intro to Speech Communications or SPC 1608 Public Speaking</td>
<td>1 point</td>
</tr>
<tr>
<td>6</td>
<td>CGS1060C Computer and Internet Literacy</td>
<td>1 point</td>
</tr>
</tbody>
</table>

* Health Occupations Students of America (HOSA) students who meet all of the application criteria will be awarded one (1) additional point.

Points for Accumulative Grade Point Average
Based on the strength of the pool of applicants, this category will be used as a “tie-breaker” should applicants have the same number of points upon application to the program. Points as follows will be awarded for the cumulative average of the courses that are required by the AS degree. This is for courses completed at BC or that are transferred in as equivalent:

<table>
<thead>
<tr>
<th>GPA Range</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 – 3.2 GPA</td>
<td>2 points</td>
</tr>
<tr>
<td>3.2 – 2.5 GPA</td>
<td>1 point</td>
</tr>
</tbody>
</table>

The application period and deadline for applying can be found on the Health Science Admissions page. Only those applicants meeting the program selection criteria will be considered. Incomplete applications or those received before students have completed the prerequisite courses will be returned to the applicant. There is no waiting list to get into the program. Those not admitted must reapply for the following year.

PROGRESSION TO THE SECOND YEAR OF THE PROGRAM IS CONTINGENT UPON SUCCESSFUL COMPLETION OF ALL FIRST YEAR COURSES WITH A 2.0 GPA OR HIGHER.

Nuclear Medicine applicants who have criminal convictions or concerns must clear all ethics requirements by filing a Pre-application Review of Eligibility Form with the American Registry of Radiologic Technologists to avoid potential delays when applying to write the Certifying Exam. Applicants can contact the American Registry of Radiologic Technologists by telephoning the Ethics Department of the ARRT at 651-687-0048.

Continued on next page
NUCLEAR MEDICINE TECHNOLOGY
Nuclear Medicine Technology Associate in Science Major Code 2102 (cont.)

Requirements for the Associate in Science Degree in Nuclear Medicine Technology:
- Complete 75 hours of credit with a degree grade point average of 2.0 or higher.
- No grade lower than a “C” will be acceptable in all degree courses.

Note: In order to successfully progress through the AS Nuclear Medicine Technology Program, students must achieve a grade of "C" or above in all didactic courses and an "S" (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

Pre-requisite Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1032</td>
<td>Chemistry for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1032L</td>
<td>Chemistry for Health Sciences Lab</td>
<td>1</td>
</tr>
<tr>
<td>BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1085L</td>
<td>Anatomy and Physiology Lab I</td>
<td>1</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 17

First Year Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 1002</td>
<td>Introduction to Nuclear Medicine</td>
<td>3</td>
</tr>
<tr>
<td>NMT 1002L</td>
<td>Nuclear Medicine Lab</td>
<td>1</td>
</tr>
<tr>
<td>NMT 1430</td>
<td>Radiation Safety and Radiobiology</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1060C</td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications OR</td>
<td></td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Intro to Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 13

First Year Term II
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 1804</td>
<td>Nuc Med Clinical Education I</td>
<td>2</td>
</tr>
<tr>
<td>NMT1630</td>
<td>Nuc Med Physics and Math App</td>
<td>3</td>
</tr>
<tr>
<td>NMT 1714</td>
<td>Nuc Med Pathology</td>
<td>2</td>
</tr>
<tr>
<td>BSC 1086</td>
<td>Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1086L</td>
<td>Anatomy and Physiology Lab II</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 14

First Year Term III
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>NMT2824</td>
<td>Nuc Med Clinical Education II</td>
<td>2</td>
</tr>
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</table>

Total Term Semester Hours 5

Second Year Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>NMT 2713</td>
<td>Nuclear Medicine Methodology I</td>
<td>2</td>
</tr>
<tr>
<td>NMT 2713L</td>
<td>Nuclear Medicine Methodology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>NMT 2130</td>
<td>Nuclear Med. Radiopharmacy</td>
<td>2</td>
</tr>
<tr>
<td>NMT 2824</td>
<td>Nuc Med Clinical Education III</td>
<td>3</td>
</tr>
<tr>
<td>NMT 2779</td>
<td>Intro to Multiple Modalities</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 10

Second Year Term II
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 2960</td>
<td>Nuc Med Advance Applications</td>
<td>2</td>
</tr>
<tr>
<td>NMT 2102</td>
<td>Nuclear Medicine Administration</td>
<td>1</td>
</tr>
<tr>
<td>NMT 2534</td>
<td>Nuc Med Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>NMT 2723</td>
<td>Nuclear Medicine Methodology II</td>
<td>2</td>
</tr>
<tr>
<td>NMT 2723L</td>
<td>Nuclear Medicine Methodology II Lab</td>
<td>1</td>
</tr>
<tr>
<td>NMT 2834</td>
<td>Nuc Med Clinical Education IV</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 11

Second Year Term III
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMT 2061</td>
<td>Nuclear Medicine Seminar</td>
<td>3</td>
</tr>
<tr>
<td>NMT 2844</td>
<td>Nuc Med Clinical Education V</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Term Semester Hours 75

*Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an academic advisor or counselor every term.
### Nuclear Medicine Technology-Specialist Technical Certificate Track:

Applicants for the Nuclear Medicine Technology Technical Certificate Program must be a graduate of an accredited two-year Health Science Program which leads to registration and/or licensure. Upon completion of the twelve (12) months full-time day program, the student will be eligible for the Nuclear Medicine National Board Certification Exam offered by, and become certified by, the American Registry of Radiologic Technologists (ARRT) and/or the Nuclear Medicine Technology Certification Board (NMTCB).

Applicants should call the Program Manager at 954-201-2083 for specific program information. Applicants should call 954 201-2058 or 2890 for admissions information. The application period and deadline for applying can be found on the Health Science Admissions page. The program is offered in building 41, BC North Campus, 1000 Coconut Creek Boulevard, Coconut Creek, FL.

Nuclear Medicine applicants who have criminal convictions must clear all ethics requirements by filing a Pre-application Review of Eligibility Form with the American Registry of Radiologic Technologists to avoid potential delays when applying to write the Certifying Exam. Applicants can contact the American Registry of Radiologic Technologists by telephoning the Ethics Department of the ARRT at 651-687-0048.

### Related Programs

Nuclear Medicine Technology Associate in Science Major Code 2102

### Entrance Requirements

- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### Criteria for Admission to the Nuclear Medicine Technology-Technical Certificate Program:

- Applicant must fulfill the requirements for admission to Health Science Programs.
- Minimum 2.5 degree GPA.
- Applicants must have an Associate Degree in a related field of study, (i.e., Radiologic Technology or a valid Florida healthcare license in another. AS degree in a Health Science field).
- Complete all prerequisites with a grade of “C” or higher.

### Requirements for Nuclear Medicine Technology-Technical Certificate Program:

- Complete 48 semester credit hours with a GPA of 2.0 or higher.
- No grade lower than a “C” in all certificate course

### Note:

In order to successfully progress through the Nuclear Medicine Technology Specialist Technical Certificate Program, students must achieve a grade of "C" or above in all didactic courses and an "S" (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.

### Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td>*CHM 1032</td>
<td>Chemistry for the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>*CHM 1032L</td>
<td>Chemistry for the Health Sciences Lab</td>
<td>1</td>
</tr>
<tr>
<td>*BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 11

### First Year Term I

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*NMT 1002</td>
<td>Introduction to Nuclear Medicine</td>
<td>3</td>
</tr>
<tr>
<td>*NMT 2130</td>
<td>Nuclear Med. Radiopharmacy</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 2713</td>
<td>Nuclear Medicine Methodology I</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 2713L</td>
<td>Nuclear Medicine Methodology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*NMT 2824</td>
<td>Nuc Med Clinical Education III</td>
<td>3</td>
</tr>
<tr>
<td>*NMT 27779</td>
<td>Intro to Multiple Modalities</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 1430</td>
<td>Radiation Safety and Radiobiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**: 16

### First Year Term II

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*NMT 2834</td>
<td>Nuc Med Clinical Education IV</td>
<td>3</td>
</tr>
<tr>
<td>*NMT 2102</td>
<td>Nuclear Medicine Administration</td>
<td>1</td>
</tr>
<tr>
<td>*NMT 2534</td>
<td>Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 2723</td>
<td>Nuclear Medicine Methodology II</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 2723L</td>
<td>Nuclear Medicine Methodology II Lab</td>
<td>1</td>
</tr>
<tr>
<td>*NMT 1630</td>
<td>Nuc Med Physics and Math App</td>
<td>3</td>
</tr>
<tr>
<td>*NMT 1714</td>
<td>Nuc Med Pathology</td>
<td>2</td>
</tr>
<tr>
<td>*NMT 2960</td>
<td>Nuc Med Advance Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**: 16

### First Year Term III

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*NMT 2061</td>
<td>Nuclear Medicine Seminar</td>
<td>3</td>
</tr>
<tr>
<td>*NMT 2844</td>
<td>Nuc Med Clinical Education V</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**: 5

**Total Program Hours**: 48

*Requires a pre- or co-requisite. See course description online at [www.broward.edu](http://www.broward.edu).

It is strongly recommended that students see an academic advisor or counselor every term.
NURSING  
Nursing (R.N.) Associate in Science Degree Major Code 2127  
LPN-RN Transition Major Code 21271

Program Description
The Associate in Science Degree Nursing Program is designed to prepare the individual student for a career as a professional nurse. The program's mission is to prepare competent, compassionate, and culturally sensitive entry-level nursing graduates whose professional practice encompasses legal and ethical decision-making in the promotion of health in the community. The practice of professional nursing requires the performance of those acts, which require substantial specialized knowledge, critical judgment, critical thinking, and nursing skill, based upon applied scientific principles. The graduate nurse is prepared to practice holistic nursing incorporating biophysical, psychosocial, spiritual, cultural, and wellness concepts.

The Nursing Program is approved by the Florida Board of Nursing, accredited by the National League for Nursing Accrediting Commission Inc. (NLNAC), and holds membership in both the Associate Degree Council of the National League for Nursing and the National Organization for Associate Degree Nursing (N-OADN). The Florida Board of Nursing mailing address is 4052 Bald Cypress Way, Tallahassee, Florida 32399-3257. www.doh.state.fl.us. NLNAC is located at 3343 Peachtree Road, NE, Suite 500, Atlanta, Georgia, 30326. www.nlnac.org.

The student who has met all educational and institutional requirements for an Associate in Science Degree in Nursing from Broward College is eligible to have his/her name submitted to the Florida Board of Nursing to be considered as a candidate for the National Council Licensure Examination for the Registered Nurse (NCLEX-RN). The Florida Board of Nursing is the state agency authorized to determine if the applicant qualifies to take the National Council Licensure Examination (NCLEX-RN) for licensure as a Registered Nurse in Florida. For licensure requirements, refer to sections 464.008 and 464.009, Florida Statutes (F. S.), Rules 64B9-3.002 and 3.008, Florida Administrative Code (F.A.C.)

The Florida Board of Nursing, in accordance with the Rules and Regulations of the Nurse Practice Act, will determine if a nursing program graduate is eligible for licensure when there is an arrest/conviction record. All individuals with a criminal or discipline history should read Chapter 464, Florida Statutes (F.S.) and Chapter 64B9, Florida Administrative Code (F.A.C.) as they pertain to the practice of nursing. The Board of Nursing encourages all individuals with a criminal or discipline history to fully understand these requirements. For more information refer to the Florida Board of Nursing website www.doh.state.fl.us/mqa/nursing or call 850-488-0595 or email MQA_Nursing@doh.state.fl.us.

Related Programs
Bachelor of Science in Nursing Program Major Code N100

General Program Information
The Nursing Program offers two full time day program options for the Associate in Science Degree in Nursing: The Generic Option and the LPN-RN Transition Option. Both program options are offered in the traditional classroom setting and the online/internet setting. The Generic Option is for those student applicants who have no previous nursing education. The LPN-RN Transition Option is for those students who already hold a current Florida Practical Nursing License without restrictions. The LPN-RN Transition program recognizes the Florida Licensed Practical Nurses’ knowledge and skill level, and provides them the opportunity to receive experiential learning credits for Nursing Process I/II (Fundamentals of Nursing) and the specialty lab nursing courses.

The Generic Option and LPN-RN Transition Option are both offered in the traditional classroom setting or via the Internet (Online Option). The Online Option offers the nursing program theory as a Flexible Learning course designed for students who prefer a blend of online and on campus learning. The online program objectives and program completion requirements are identical to the traditional nursing program.

Online nursing courses are equivalent to courses taken in the standard contact hour format. The cost of tuition is the same as for those courses offered in the traditional classroom setting. However, students enrolled in online nursing courses may be assessed special fees.

Online nursing is a Hybrid method of delivery for courses and requires on campus meetings for orientations, labs, instruction, and proctored exams. Required meeting dates are listed in the course schedule and in course syllabi. Students enrolled in the online nursing courses must be able to attend clinical experiences in Broward County and come to campus for exams and lab activities.

The nursing program combines studies in general education and nursing education at the college with selected clinical experiences in hospitals and other community facilities. Nursing courses require students to spend a combined 20 to 36 hours per week in the classroom and clinical settings. The program consists of 72 credits. The ratio of clock hours to credit hours in the clinical courses is 3.5 to 1. There are 56 hours of clinical practicum for each credit and 16 hours of theory for each credit. Generic students attend 1008 hours of clinical. LPN-RN Transition students attend 728 hours of clinical. Clinical hours are a combination of nursing experiences in acute care and extended care facilities and nursing campus lab setting. All clinical hours are mandatory and it is expected that students will have made arrangements to meet the total required hours. All nursing students must have internet access and the capability to perform basic computer skills such as word processing, sending and receiving emails, and file management.

Other Entrance Requirements
• HS Diploma or GED
• PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Continued on next page
Criminal Background and Drug Screenings

Clinical affiliating agency sites require students to be fingerprinted, pass drug screening and background checks, and clear the HHS/OIG list of excluded individuals and the GSA list of parties excluded from federal programs. Compliance with this requirement and satisfactory findings are essential for clinical placement and progression. Students who fail to submit to a background check or students whose background checks indicate a conviction as specified in Florida Statutes Title XXXI, Chapter 435.04; Level 2 Screening Standards may not be eligible for admission and/or may be dismissed from the nursing program for would not be eligible for clinical agency placement and/or not eligible to take NCLEX-RN for licensure. A history of past arrest and conviction may prohibit students from being licensed in Florida. Students should contact the Florida Board of Nursing to determine their eligibility for licensure based on the criminal background prior to submitting an application to the nursing program.

Broward College Nursing Program acknowledges the problem of substance abuse in our society and perceives this problem as a serious threat to employees, students, and patients. It is the intent of the College to establish and maintain a drug-free educational setting and work place. The College policies related to zero tolerance for substance abuse can be found in the current Broward College Student Handbook.

Incoming students for the Nursing Program shall be drug screened through arrangements made by the school and the screening agency. Students are responsible for the cost of all screenings. A student needs to be aware that they may be denied participation and placement at a clinical agency based on the background or drug screening findings and the clinical agency’s pre-employment screening policy. Withdrawal from the program will be necessary if a student cannot be placed in a clinical agency to meet program practicum requirements.

A negative drug screen will be required to be eligible to enroll in any nursing course. Drug screening and background checks will be required at the time of admission or reinstatement into the Nursing Program. Annual updates for background and drug screens are required while enrolled in the nursing program. Students may be drug tested at any time while enrolled in the program. The student will be responsible for the cost of the required screenings. Evidence of chemical/substance abuse will result in immediate administrative dismissal from the program and outcome per the College policies related to zero tolerance for substance abuse. College Policy related to substance abuse can be found in the current Broward College Student Handbook. If a nursing student is dismissed from the nursing program for substance abuse, this action may be reported, if appropriate, to the Intervention Project for Nurses of the Florida Board of Nursing and/or another appropriate assisting agency. Nursing students’ physicals are to note if they are taking prescription drugs that have the potential to affect performance in the clinical area. Medical clearance would be requested from the prescribing physician.

ALL NURSING STUDENTS SEEKING ADMISSION OR RE-INSTATEMENT TO THE NURSING PROGRAM SHALL ADHERE TO ALL CURRENT DEPARTMENTAL REQUIREMENTS:

Criteria for Admission to the Nursing Program

Prior to submitting an application to Health Science Admissions for the Nursing Program the student must:

- Successfully complete the Evolve-Reach A2-RN Admission Assessment Test Powered by Health Education Systems Inc. (HESI) beginning with those students seeking admission to August 2010 class (AY 2010-2011). Information specific to the A2 Entrance Assessment exam is located on the Nursing Program Admission Information webpage.
- Complete all nursing pre-requisite courses with a “C” or better and a minimum grade point average (GPA) of 2.5. (The pre-requisites courses are listed below).
- Students applying for the LPN-RN Transition Option must hold a current Florida LPN License without restrictions, complaints and/or obligations.
- Review of the application and admission criteria is available on the Broward College Website (www.broward.edu) Admission Information.

Eligibility for admission into the nursing program will be dependent upon the following:

- Successful Completion of the Evolve-Reach A2-RN Admission Assessment Test by HESI. Applicants as of August 2010 (2010-2011 AY) and all future applicants will require successful completion of the HESI A2 Entrance Exam to be eligible to submit an application for admission consideration to the nursing program. Information specific to the A2 Entrance Assessment exam is located on the Nursing Program Admission Information webpage.
- Ability to meet the Performance Standards for the Nursing Program. In order to insure the safety of both the student and the patient(s) under their care, students must be able to meet Performance Standards to enter and remain in the program. A copy of the Performance Standards for the Nursing Program is posted on the web with-in the Health Science Admissions Medical History—Physical Exam Form.
- The successful completion of the HCP 0001 (Health Care Career Course) 75.0 Contact Hours. Students may be eligible for a waiver of the HCP 0001 course if they have a current Florida or national license in another direct patient-care, health care profession. Therefore contact Health Science Admissions for more information.
- Satisfactory Criminal Background Check, HHS/OIG clearance and Drug Screening.

Minimum GPA of 2.5 in the required pre-requisite courses including Anatomy and Physiology I and Lab, Anatomy and Physiology II & Lab, Chemistry, and English Composition I. In addition; a GPA of 2.0 in degree and overall course work is required.

Continued on next page
The following must be submitted to the Nursing Department on the campus where the student will be attending nursing courses. The due dates for the forms/certificates will be given in the mandatory, general orientation meeting that will be discussed in the acceptance letter provided to students:

- Completion of a Medical History and Physical Examination prior to the start of the first nursing course. Admission into the Nursing Program is provisionally based upon acceptance of the approved health evaluation record. This health evaluation record must be submitted no later than the specified campus due dates.
- BLS-Basic Life Support for Health Care Providers
- HSC0405. The CPR curriculum must be approved by the American Heart Association and/or American Red Cross 3-8 Contact Hours; HSC0691 Domestic Violence 2.0 Contact Hours; HSC0591 HIV/AIDS 4.0 Contact Hours; HSC0522 OSHA/TB/Hepatitis 6.0 Contact Hours; HSC0692 Prevention of Medical Errors 2.0 Contact Hours. All Certificates are to have Florida Board of Nursing (FBN) approval shown by FBN number and CE Broker Number.

Graduation Requirements for the Associate of Science Degree in Nursing (RN):
- Completion of 72 semester credit hours curriculum plan listed below with a degree GPA of 2.0 or higher.
- Complete all courses with a grade of “C” or higher.
- Refer to AS Degree Requirements outlined in the college catalog (BC Webpage)

The following Nursing prerequisite courses must be completed prior to submitting a Nursing Application with a minimum 2.5 grade point average (GPA):

- *ENC1101 English Composition I 3
- *CHM1032 Chemistry for Health Science 3
- *BSC1085 Human Anatomy & Physiology I 3
- *BSC1085L Human Anatomy & Physiology Lab 1
- *BSC1086 Human Anatomy & Physiology II 3
- *BSC1086L Human Anatomy & Physiology II Lab 1

**Total Semester Credit Hours 14**

*HCP 0001 Health Career Core (75.0 Contact Hours): This course is not calculated in the grade point average but must be completed prior to submitting an application to the Nursing Program. (Students may be eligible for a waiver if they have a current Florida or national license in another direct patient-care, health care profession).

Additional General Education Courses Required

- *MCB 2010 Microbiology 3
- *MCB 2010L Microbiology Lab 1
- *HSC1149 Pharmacology 2
- *MTH 1370 Math for Health Related Professions 1

Elective Humanities/Fine Arts (& writing requirement) 3

Elective Social/Behavior Science 3

**Total Semester Credit Hours 13**

**NUR 2811** Trends, Practices and Roles Clinical Lab 2

**Total Semester NUR Credit Hours 45**

**Total Program Semester Credit Hours 72**

**LPC-RN TRANSITION OPTION**

- NUR 2000 Transition Nursing I 2
- NUR 2000L Transition Nursing Clinical Lab 2
- NUR 1220 Health Alterations I 3
- NUR 1220L Health Alterations I Clinical Lab 2
- NUR 1421 Health Care of Women 3
- NUR 1400L Transition Health Care of Women Clinical Lab 1
- NUR 1520 Nursing Care of the Psychiatric Patient 3
- NUR 1500L Transition Nursing Care of the Psychiatric Patient Clinical Lab 1
- NUR 1310 Pediatric Nursing 3
- NUR 1304L Transition Pediatric Nursing Clinical Lab 1
- NUR 2221 Health Alterations II 3
- NUR 2221L Health Alterations II Clinical Lab 2
- NUR 2222 Health Alterations III 3
- NUR 2222L Health Alterations III Clinical Lab 2
- NUR 2801 Transition Nursing IV 3
- NUR 2801L Transition Nursing IV Lab 2

**Total Semester NUR Credit Hours 36**

**Total Program Semester Credit Hours 72**

*Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu.

**LPN-RN Transition students will be eligible for up to 13 Nursing Course Credits for experiential learning. The experiential learning credits are awarded in the final nursing course.

It is strongly recommended that students see an academic advisor or counselor every term.

Articulation Agreements

There is a statewide articulation between all state supported Associate in Science Degree in Nursing programs and Bachelors in Science in Nursing degree programs.

**NOTE:** Students majoring in Nursing at the college will meet the oral communication and computer literacy AS degree requirements by successfully completing all required Nursing (NUR) course.
**OFFICE ADMINISTRATION**

**Office Administration Associate in Applied Science**

Legal Office Specialization (A0211)

Medical Office Specialization (A0212)

Office Management Specialization (A0213)

Office Software Specialization (A0214)

---

**Program Description**

The Office Administration Associate in Applied Science Degree emphasizes competencies used by various office support personnel. Students will have the opportunity to develop expert skills in keyboarding, software applications, business ethics and communications, and office management. Students may choose a specific career path in Legal, Medical, or Office Management. This program is currently offered at the South and North campuses.

Technical Certificates that may lead to an Office Administration AAS degree are: Office Management Technical Certificate (6237 (6237E)); Medical Office Management Technical Certificate (6281 (6281E)); Office Specialist Technical Certificate (6280); and Office Support Technical Certificate (6279 (6279E)). (See catalog or program sheet for more information.).

**Related Programs**

- Medical Office Management Technical Certificate Major Code 6281 (6281E)
- Office Management Technical Certificate Major Code 6237 (6237E)
- Office Specialist Technical Certificate Major Code 6280 (6280E)
- Office Support Technical Certificate Major Code 6279 (6279E)

---

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Elective Math or Science</td>
<td>3</td>
</tr>
<tr>
<td>Elective Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td><strong>CGS 1060C Computer and Internet Literacy</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

*Total General Education Credits:* 15

---

**Program Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OST 1100C Keyboarding and Document Processing I</td>
<td>3</td>
</tr>
<tr>
<td>* OST 1110C Keyboarding and Document Processing II</td>
<td>3</td>
</tr>
<tr>
<td>GEB 2430 Business Ethics</td>
<td>1</td>
</tr>
<tr>
<td>MTB 2103 Business Math</td>
<td>3</td>
</tr>
<tr>
<td>OST 1330 Business English</td>
<td>1</td>
</tr>
<tr>
<td>OST 1355 Records Management</td>
<td>3</td>
</tr>
<tr>
<td>ACG 1003 Accounting Survey</td>
<td>3</td>
</tr>
<tr>
<td>* ACG 2450C Computerized Accounting Applications</td>
<td>3</td>
</tr>
<tr>
<td>* OST 2764C Information Word Process Applications</td>
<td>3</td>
</tr>
<tr>
<td>OST 2353 Communications in the Workforce</td>
<td>3</td>
</tr>
<tr>
<td>OST 2501 Office Management</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345 Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>OST 2053 Successful Job Search</td>
<td>1</td>
</tr>
<tr>
<td># OST 2949 Co-op or elective</td>
<td>3</td>
</tr>
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</table>

*Total Program Core Credits:* 36

---

**Legal Office Specialization (A0211f)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OST 2431 Legal Office Tech I</td>
<td>3</td>
</tr>
<tr>
<td>* OST 2432 Legal Office Tech II</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2241 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>PLA 1003 Introduction to Legal Assisting</td>
<td>3</td>
</tr>
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---

**Medical Office Specialization (A0212f)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>OST 1257C Medical Terminology for the Administrative Assistant</td>
<td>3</td>
</tr>
<tr>
<td>* OST 2455C Medical Billing &amp; Coding I</td>
<td>3</td>
</tr>
<tr>
<td>* OST 2456C Medical Billing &amp; Coding II</td>
<td>3</td>
</tr>
<tr>
<td>* OST 2464C Medical Computer Application</td>
<td>3</td>
</tr>
</tbody>
</table>

or

**Office Management Specialization (A0213f)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 2021 Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1540C Database Management</td>
<td>3</td>
</tr>
<tr>
<td>OST 1811C Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1510 Electronic Spreadsheet</td>
<td>3</td>
</tr>
</tbody>
</table>

or

**Office Software Specialization (A0214f)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1510 Electronic Spreadsheet</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1557C Internet Site Design OR DIG2100C Web Development I</td>
<td>3</td>
</tr>
<tr>
<td>OST 1811C Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>DIG 2580C Digital Media Portfolio</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total Specialization Credits:* 12

**Total Program Credits:** 63

---

**Entrance Requirements**

- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

§ Students can earn a degree from A0211, A0212, A0213 or A0214, but not from two or more of these programs.

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* Requires a pre- or co-requisite or proper score on placement test. See course descriptions in this catalog or online at [www.broward.edu](http://www.broward.edu).

**Must be completed within the first 15 hours of Broward College coursework.

# Electives may be selected from OST, CGS, GEB, MAN, MNA, BUL, GRA, SPC, or ACG courses

It is strongly recommended that students see an academic advisor or counselor every term.
OFFICE ADMINISTRATION
TECHNICAL CERTIFICATES

Medical Office Management Technical Certificate 6281 (6281E)
Office Management Technical Certificate Major Code 6237 (6237E)
Office Specialist Technical Certificate Major Code 6280 (6280E)
Office Support Technical Certificate Major Code 6279 (6279E)

Program Description
The technical certificates that articulate to the Office Administration Associate of Applied Science degree (A021) are designed to provide the necessary entry-level skills for students who plan to seek employment in office positions such as, file clerk, typist, data entry, receptionist, general office assistant, clerical service specialist, records management specialist, medical posting clerk, medical receptionist, medical secretary, medical records, or to provide supplemental training for persons previously or currently employed in these occupations.

Related Programs
ASSOCIATE IN APPLIED SCIENCE
Legal Office Specialization (A021‡)
Medical Office Specialization (A022‡)
Office Management Specialization (A023‡)
Office Software Specialization (A024‡)

‡Students can earn a degree from A021, A022, A023 or A024, but not from two or more of these programs.

Entrance Requirements
• HS Diploma or GED
• PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Office Specialist Technical Certificate (6280 & 6280E)
ACG 1003 Accounting Survey 3
OST 1100C Keyboarding and Document Processing I 3
OST 2501 Office Management 3
OST 1330 Business English 1
OST 2053 Successful Job Search 1
GEB 2430 Business Ethics 1
OST 2335 Communications in the Workforce 3
OST 1355 Records Management 3
Total Program Credits 18

Office Management TC (6237 (6237E))
CGS 1060C Computer and Internet Literacy 3
MTB 1103 Business Math 3
OST 1100C Keyboarding and Document Processing I 3
OST 2501 Office Management 3
OST 1330 Business English 1
OST 1330 Business English 1
OST 2053 Successful Job Search 1
OST 2335 Communications in the Workforce 3
OST 2764C Information Word Processing 3
OST 1355 Records Management 3
OST 2501 Office Management 3
ACG 1003 Accounting Survey 3
Total Program Credits 27

Medical Office Management TC (6281 (6281E))
MTB 1103 Business Math 3
OST 1100C Keyboarding and Document Processing I 3
OST 1257C Medical Terminology for the Administrative Assistant 3
OST 2053 Successful Job Search 1
OST 2335 Communications in the Workforce 3
OST 2764C Information Word Processing 3
OST 1355 Records Management 3
OST 2501 Office Management 3
ACG 1003 Accounting Survey 3
OST 2455 Billing and Coding I 3
OST 2456 Billing and Coding II 3
OST 2464C Medical Computer Apps 3
Total Program Credits 34

*Requires a pre- or co-requisite or proper score on placement test. See course descriptions in this catalog or online at www.broward.edu

It is strongly recommended that students see an academic advisor, counselor, or OST faculty member every term.
PHYSICAL THERAPIST ASSISTANT
Physical Therapist Assistant Associate in Science Major Code 2153

Program Description
The Physical Therapist Assistant Program is a two year full-time day program. The program is delivered to students at BC and Edison State College (ESC) via distance learning technology. Lectures are broadcast in real time so that all sites participate in lecture classes together. The individual sites manage lab sessions. The clinical education component of the program is managed by the Academic Coordinator of Clinical Education at the Broward site. The program provides the student with the opportunity to develop technical skills relative to physical therapy through planned clinical, classroom and laboratory experiences. The graduate will be prepared to provide a variety of services under the direction and guidance of a supervising physical therapist. The program is a full-time day program accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). A licensing examination is required upon completion of the two-year program and the Physical Therapist Assistant shall be eligible for an appropriate membership category in the American Physical Therapy Association. The program is offered in Building 41 on North Campus, Coconut Creek, Florida and at ESC on the Lee County campus in Fort Myers, Florida. Applicants should access admission information online at www.broward.edu/healthsciences or call 954-201-2892. Applicants should review the program's web site at www.broward.edu/pta for additional information.

Criteria for Admission to the Physical Therapist Assistant-Associate in Science:
- Applicants must have a minimum degree grade point average (GPA) of 2.5.
- Applicants to the program will be ranked according to the Admission Point System detailed below:
- Once accepted into the program, students must successfully complete a continuing education course: Online Test Drive prior to the start of PHT courses in Term I, August.
- Applicants must complete a Medical History and Physical Examination prior to the start of PHT courses in Term I, August. Completion of the physical is not required for application to the program.

Admission Point System for PT Assistant Program

<table>
<thead>
<tr>
<th>Degree GPA</th>
<th>GPA range</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3.5 to 4.0</td>
</tr>
<tr>
<td>2</td>
<td>3.0 to 3.4</td>
</tr>
<tr>
<td>1</td>
<td>2.5 to 2.9</td>
</tr>
</tbody>
</table>

Completion of General Education Courses with a grade of “C” or above

<table>
<thead>
<tr>
<th>Points</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BSC 1085</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>4</td>
<td>BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
</tr>
<tr>
<td>4</td>
<td>BSC 1086</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>4</td>
<td>BSC 1086L</td>
<td>Anatomy and Physiology II Lab</td>
</tr>
<tr>
<td>4</td>
<td>HSC 1531</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>2</td>
<td>ENC 1101</td>
<td>Composition I</td>
</tr>
<tr>
<td>2</td>
<td>PSY 2012</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>2</td>
<td>Elective</td>
<td>Humanities</td>
</tr>
</tbody>
</table>

Residency

<table>
<thead>
<tr>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>4</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

Program Graduation Requirements
- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Complete a minimum of 74 semester hours of credit and a degree grade point average of 2.0 or higher.
- Complete the following courses with a grade of “C” or higher:

Continued on next page
## PHYSICAL THERAPIST ASSISTANT

Physical Therapist Assistant Associate in Science Major Code 2153 (cont.)

<table>
<thead>
<tr>
<th>First Year Term III – Summer – First Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 1531 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085 Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085L Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>MAT 0028 Elementary Algebra and Lab</td>
<td>0</td>
</tr>
<tr>
<td>ENC1101 College Composition</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>10</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term I – Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*BSC 1086 Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC1086L Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHT 1200 Introduction to Physical Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PHT 1200L Introduction to Physical Therapy Lab</td>
<td>1</td>
</tr>
<tr>
<td>*PHT 1103 Anatomy for the PTA</td>
<td>3</td>
</tr>
<tr>
<td>*PHT 1103L Anatomy for the PTA Lab</td>
<td>1</td>
</tr>
<tr>
<td>*PHT 1300 Survey of Pathological Deficits</td>
<td>4</td>
</tr>
<tr>
<td>*PHT 1310 Survey of Musculoskeletal Deficits</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>18</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Year Term II – Third Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHT1010 Physical Principles for PTA</td>
<td>1</td>
</tr>
<tr>
<td>*PHT 1211 Disabilities and Therapeutic Procedures I</td>
<td>2</td>
</tr>
<tr>
<td>*PHT 1211L Disabilities and Therapeutic Procedures I Lab</td>
<td>2</td>
</tr>
<tr>
<td>*PHT 2224 Disabilities and Therapeutic Procedures II</td>
<td>4</td>
</tr>
<tr>
<td>*PHT 2224L Disabilities and Therapeutic Procedures II Lab</td>
<td>2</td>
</tr>
<tr>
<td>*PHT1020 Therapeutic Communication for PTA</td>
<td>2</td>
</tr>
<tr>
<td>*PHT 1801L Clinical Practicum I</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Second Year Term I – Fourth Semester</th>
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</thead>
<tbody>
<tr>
<td>PHT1350* Basic Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>*PHT 2810L Clinical Practicum II</td>
<td>5</td>
</tr>
<tr>
<td>*PHT 2162 Survey of Neurological Deficits</td>
<td>4</td>
</tr>
<tr>
<td>*PHT 2120 Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>*PHT 2120L Applied Kinesiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>PSY2012 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Term II – Fifth Semester</th>
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</thead>
<tbody>
<tr>
<td>*PHT 2704 Rehabilitative Procedures</td>
<td>3</td>
</tr>
<tr>
<td>*PHT 2704L Rehabilitative Procedures Lab</td>
<td>1</td>
</tr>
<tr>
<td>*PHT 2820L Clinical Practicum III</td>
<td>5</td>
</tr>
<tr>
<td>*PHT 2931 Transition Seminar</td>
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</tr>
<tr>
<td>Elective Humanities</td>
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<tr>
<td><strong>Total Term Semester Hours</strong></td>
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</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>74</strong></td>
</tr>
</tbody>
</table>

* Requires a pre- or co- requisite. See course description in BC or Edison State College catalog, or online at [www.broward.edu](http://www.broward.edu)

Successful completion of the Physical Therapist Assistant Program will satisfy the BC’s Oral Communication Standard and basic computer skill requirement.

Upon successful completion of PHT 1200 and PHT 1200L, students will have met the Health Careers Core objectives.
PHYSICAL THERAPIST ASSISTANT

Program Description
The advanced technical certificate (ATC) is designed for the graduate Physical Therapist Assistant (PTA) who wishes to obtain licensure as a massage therapist. Dual licensure typically enhances employability in terms of meeting the health care needs of the community. This certificate program is not offered each year – for specific details regarding when the program is offered, contact the program manager of the PT Assistant program.

The certificate program provides greater knowledge in the science of soft tissue mobilization as it relates to the provision of quality therapeutic interventions and promoting patient wellness. Graduates of the certificate program are eligible to sit for the national certification examination through the National Certification Board for Therapeutic Massage and Bodywork, and upon satisfactory achievement, become licensed Massage Therapists.

The Massage Therapist is an educated health care provider who performs a variety of manual techniques designed to promote stress relief and relaxation, relieve pain and swelling of various anatomical areas, prevent postural deformity and promote functional activities.

This program is offered at the North Campus.

Related Programs
Physical Therapist Assistant Associate in Science Major Code 2153

All applicants to the Advanced Technical Certificate (ATC) in Manual Techniques for the PT Assistant must have an Associate of Science degree in Physical Therapist Assisting.

Entrance Requirements
- Associate Degree

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Certificate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 2203</td>
<td>Manual Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 2203L</td>
<td>Clinical Practicum in Manual Techniques I</td>
<td>2</td>
</tr>
<tr>
<td>PHT 2204</td>
<td>Manual Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>PHT 2204L</td>
<td>Clinical Practicum in Manual Techniques II</td>
<td>2</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Total Program Semester Hours</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>
RADIATION THERAPY PROGRAM
Radiation Therapy Associate in Science Major Code 2159

Program Description
The Radiation Therapy Programs prepare individuals to successfully perform as a radiation therapist. Radiation therapists are vital members of a team of health professionals including a radiation oncologist (physician), physicist, dosimetrist, and oncology nurse. Some of the many functions of a radiation therapist include: assisting the radiation oncologist in localizing the tumor and simulating treatment parameters, treating patients with malignant diseases using ionizing radiation, monitoring patient's physical condition and response to treatment and recognizing treatment complications. Clinical education is performed in Broward and Palm Beach County hospitals/clinics and is offered concurrently with the didactic courses. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

This Associate in Science degree program is a two-year full time day program. Applicants must complete all of the AS General Education course requirements prior to admission to the second year of the program. Upon completion of this degree program, the graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state for licensure. Clinical Education is performed in Palm Beach and Broward County hospitals/clinics and is offered concurrently with the didactic classes. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

The program is offered in Building 41 on North Campus. Applicants should access admission information online at www.broward.edu/healthsciences, or call 954-201-2890. Applicants should call the program manager at (954) 201-2352 for specific program information.

Radiation Therapy AS Program applicants who have criminal convictions or concerns must clear the ARRT ethics requirements through a pre-application review of eligibility process. The Pre-application Review of Eligibility process with the American Registry of Radiologic Technologists is done to avoid potential delays when applying to take the certification exam. Applicants should contact the ARRT directly at 651-687-0048 for further information.

Related Programs
Radiation Therapy Specialist Technical Certificate Major Code 6228

General Entrance Requirements
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Criteria for Admission to Radiation Therapy - Associate in Science Degree:
- Students must first gain admission to Broward College as described in the Admissions Procedures section of the College Catalog.
- Students must fulfill the Health Science Admission Requirements listed in the Health Science Programs and Policies section of the College Catalog.
- Students must complete (or transfer in from another school) pre-requisite courses with a “C” grade or higher prior to submitting a Health Science Limited Access Application to the Radiation Therapy Program. A minimum 2.5 degree GPA is required to apply to the program.
- Students must complete (or transfer in an equivalent course from another school/provider) the Pre-Health Science Core requirements prior to starting the program in August:
  o HCP 0001 Health Careers Core Curriculum
  o HSC 0405 Basic Life Support (CPR) Student
  o HSC 0522 Tuberculosis/OSHA/Hepatitis For Students
  o HSC 0591 HIV/AIDS Students
  o HSC 0691 Domestic Violence For Students
  o HSC 0692 Prevention of Medical Errors
- Applicants must complete a Medical History and Physical Examination prior to the start of RAT courses in Term I, August. Completion of the physical is not required for application to the program. Physical Examination information will be provided to students at the preadmissions meeting.

Radiation Therapy AS Program Selection Criteria
Once students have successfully completed all prerequisite courses (i.e., ENC 1101, BSC 1085, BSC 1085L, BSC 1086, BSC 1086L & MTB 1310 or MAT 1033) & have applied to the Radiation Therapy Program with the required minimum 2.5 cumulative GPA, admission will be based on a point system. Points will be awarded for the number of courses completed toward the AS Degree in Radiation Therapy, Grade Point Average (programmatic) and work experience.

Continued on next page
Points for Courses Completed Toward the Degree:
Courses required for the AS Degree in Radiation Therapy (exclusive of the prerequisite courses & pre-health science core requirements) will be used to award points. One point will be awarded for each course successfully completed with a minimum of a “C” (or “S”) grade regardless of the number of credits. An additional point will be awarded for completion of HSC 1531 Medical Terminology. The points awarded for courses completed at BC or that are transferred in as equivalent are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities/Fine Arts Elective</td>
<td>1 point</td>
</tr>
<tr>
<td>Social/Behavioral Science Elective</td>
<td>1 point</td>
</tr>
<tr>
<td>SPC 1608 Public Speaking</td>
<td>1 point</td>
</tr>
<tr>
<td>*BSC1086 Anatomy and Physiology II</td>
<td>1 point</td>
</tr>
<tr>
<td>*BSC1086 Anatomy and Physiology II Lab</td>
<td>1 point</td>
</tr>
<tr>
<td>HSC 1531 Medical Terminology</td>
<td>1 point</td>
</tr>
<tr>
<td>*Health Occupations Students of America (HOSA) students who meet all of the application criteria</td>
<td>1 point</td>
</tr>
</tbody>
</table>

Points for Accumulative Grade Point Average
Points as follows will be awarded for the cumulative average of the courses that are required by the AS degree. This is for courses completed at BC or that are transferred in as equivalent:

<table>
<thead>
<tr>
<th>GPA Range</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5–3.2</td>
<td>1 points</td>
</tr>
<tr>
<td>3.3–4.0</td>
<td>2 points</td>
</tr>
</tbody>
</table>

Points for Health Care Work Experience

<table>
<thead>
<tr>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documented employment in a radiation therapy department or a minimum of 40 hours documented volunteer time in a radiation therapy department must be patient related</td>
<td>1 point</td>
</tr>
</tbody>
</table>

Selection of Students:
Students with the highest point totals will be offered admission to the program based on availability. In the event of a tie, admission will be based on GPA. The earliest applications can be submitted is Winter Term please see Health Science admissions Page for exact dates, program start every August. Only those applications meeting the program selection criteria will be considered. Incomplete applications or those received before students have completed the prerequisite courses will be returned.

Students selected for this one year full-time day program will be notified by the Admissions Department via e-mail during the months of June. Those accepted will be required to attend a pre-admission session & accept or decline their place in the program. Students can defer entry into the program until the following year. However, such students must enter the program following August. Those who do not enter the following year will have to reapply for admission.

Students who do not attend the pre-admission session or contact Admissions to accept, decline, or defer entry into the program will need to reapply for the following year.

Note: In order to successfully progress through the AS Radiation Therapy Program, students must achieve a grade of "C" or above in all didactic courses and an "S" (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0.
### RADIATION THERAPY PROGRAM
Radiation Therapy Associate in Science
Major Code 2159 (cont.)

**Pre-requisite Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*MAT 1033</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>**CGS 1060C</td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**First Year Term I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAT 1001</td>
<td>Introduction to Radiation Therapy</td>
<td>1</td>
</tr>
<tr>
<td>*RAT 1111</td>
<td>Radiographic Process</td>
<td>2</td>
</tr>
<tr>
<td>*RAT 1111L</td>
<td>Radiographic Process Lab</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>*BSC1086</td>
<td>Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC1086L</td>
<td>Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

**First Year Term II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAT 1614</td>
<td>Introduction to Radiation Therapy Physics</td>
<td>3</td>
</tr>
<tr>
<td>RAT 1123</td>
<td>Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>11</strong></td>
</tr>
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</table>

**Second Year Term I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAT 2240</td>
<td>Radiation Pathology</td>
<td>3</td>
</tr>
<tr>
<td>RAT 2021</td>
<td>Principles of Radiation Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2617</td>
<td>Advanced Physics I</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2023</td>
<td>Oncology</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2814</td>
<td>Clinic Education I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Second Year Term II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RAT 2022</td>
<td>Principles of Radiation Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2618</td>
<td>Advanced Physics II</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2241</td>
<td>Radiobiology</td>
<td>2</td>
</tr>
<tr>
<td>*RAT 2824</td>
<td>Clinic Education III</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2657</td>
<td>Quality Assurance and Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2243</td>
<td>Radiation Oncology Sectional Anatomy</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Year Term III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RAT 2619</td>
<td>Dosimetry and Computer Treatment Planning</td>
<td>2</td>
</tr>
<tr>
<td>*RAT 2619L</td>
<td>Dosimetry and Computer Treatment Planning Lab</td>
<td>1</td>
</tr>
<tr>
<td>*RAT 2834</td>
<td>Clinic Education IV</td>
<td>3</td>
</tr>
<tr>
<td>*RAT 2905</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Total Program Semester Hours** 77

---

*Requires a pre- or co-requisite or proper score on placement test. Refer to the course descriptions found online at [www.broward.edu](http://www.broward.edu).

**CGS1060C must be completed within the first 15 hours of Broward College coursework.**

It is strongly recommended that students see an academic advisor or counselor every term.
RADIATION THERAPY PROGRAM
Radiation Therapy Specialist Technical Certificate Major Code 6228

Radiation Therapist Specialist-Technical Certificate Track:
The Radiation Therapist Specialist Technical Certificate program prepares the Certified Radiologic Technologist (A.R.R.T.) for employment as a radiation therapist. Upon completion of this 15 month full-time day program the graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state of Florida for licensure.

The program is offered in Building 41 on North Campus. Applicants should access admission information online at www.broward.edu/healthsciences, or call 954-201-2890. Applicants should call the program manager at 954-201-2352 for specific program information.

Related Programs
Radiation Therapy Associate in Science Major Code 2159

Criteria for Admission to the Radiation Therapy Specialist-Technical Certificate Program:
• Applicants must fulfill the requirements for admission to Health Science Programs.
• Minimum 2.5 degree GPA overall
• APPLICANTS MUST HAVE COMPLETED A RADIOGRAPHY PROGRAM AND BE CERTIFIED BY THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS.
• Applicants must complete a Medical History and Physical Examination prior to the start of RAT courses in Term III (May). Completion of the physical is not required for application to the program. Physical Examination information will be provided to students at the preadmissions meeting.

Criteria for Student Selection
After satisfying the admission requirements, selection of students for the program will be based on a point system. Points will be awarded as noted in the chart below, must see Program manager to verify test scores and points awarded.

<table>
<thead>
<tr>
<th></th>
<th>ARRT Radiography Score</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>86 and higher</td>
<td>2 point</td>
</tr>
<tr>
<td>2</td>
<td>75-85</td>
<td>1 point</td>
</tr>
<tr>
<td>3</td>
<td>ARRT in CT</td>
<td>1 point</td>
</tr>
<tr>
<td>4</td>
<td>ARRT in Nuclear Medicine</td>
<td>1 point</td>
</tr>
</tbody>
</table>

Students with the highest point totals will be offered admission to the program. The earliest applications can be submitted is Winter term please see Health Science admission criteria for exact dates. In the event of a tie, admission will be based on the student’s GPA. Only those applications meeting the program selection criteria will be considered. There is no waiting list to get into the program. Those not admitted must reapply for the following year.

Students selected for the program will be notified by the Admissions Department via e-mail approximately 30 days after closing of the application period. Those accepted will be required to attend a pre-admission session & accept or decline their place in the program. Students can defer entry into the program until the following year by request. Students who do not enter the following year will have to reapply. Students who do not attend the pre-admission session and/or contact Admissions to accept, decline or defer entry into the program will need to reapply for the following year.

Requirements for Radiation Therapy Specialist-Technical Certificate Program:
(For Radiologic Technologists)
• Complete 43 semester credit hours with a GPA of 2.0 or higher.
• Complete all certificate courses with a grade of “C” or higher.

Other Entrance Requirements
• Associate Degree

Note: In order to successfully progress through the Radiation Therapy Specialist Program, students must achieve a grade of "C" or above in all didactic courses and an "S" (satisfactory) grade in all clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0

Continued on next page
### RADIATION THERAPY PROGRAM

Radiation Therapy Specialist Technical Certificate Major Code 6228 (cont.)

**Program starts in May (Summer Term)**

<table>
<thead>
<tr>
<th>Term III</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAT 1002</td>
<td>Introduction to Radiation Therapy 2 Clinical</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>RAT 1002L</td>
<td>Intro to Radiation Therapy clinical Lab</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>RAT 1804</td>
<td>Clinical Education I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>5</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term I</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RAT 1001</td>
<td>Introduction to Radiation Therapy</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*RAT 2021</td>
<td>Principles of Radiation Therapy I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2617</td>
<td>Introduction to Radiation Therapy Physics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2023</td>
<td>Oncology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2814</td>
<td>Clinic Education II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2240</td>
<td>Radiation Pathology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>16</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term II</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RAT 2022</td>
<td>Principles of Radiation Therapy II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2618</td>
<td>Physics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2241</td>
<td>Radiobiology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>*RAT 2824</td>
<td>Clinic Education III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2657</td>
<td>Quality Assurance and Pharmacology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*RAT 2248</td>
<td>Radiation Oncology Sectional Anatomy</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>16</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term III</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RAT 2619</td>
<td>Dosimetry and Computer Treatment Planning</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>*RAT 2619L</td>
<td>Dosimetry and Computer Treatment Planning Lab</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*RAT 2834</td>
<td>Clinic Education IV</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>6</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>43</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. Refer to the course descriptions found online at [www.broward.edu](http://www.broward.edu).
RADIOGRAPHY
Radiography Associate in Science Major Code 2131

Program Description
The Radiography Program is a two year full-time day program that prepares students to practice as radiographers. Radiographers manipulate x-ray equipment and provide patient care to produce images of the tissues, organs, bones, and vessels of the body. Radiographers work closely with radiologists, who are the physicians responsible for interpreting medical images. Graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam & subsequently apply to the state of Florida for licensure. The Radiography Program maintains regional accreditation through the Southern Association of Colleges and Schools. All radiography classes exclusive of clinical assignments are taught on the A. Hugh Adams Central Campus, 3501 SW Davie Road, Davie, FL. Most of the courses in the program also contain an online component. Clinical assignments are scheduled in local hospitals. The clinical component includes some evening rotations during the second year of the program. 

Criteria for Admission to the Radiography Program Associate in Science Degree

- Students must first gain admission to Broward College as described in the Admissions Procedures section of the College Catalog.
- Students must fulfill the Health Science Admission Requirements listed in the Health Science Programs and Policies section of the College Catalog.
- Students must complete (or transfer in from another school) pre-requisite courses with a “C” grade or higher prior to submitting a Health Science Limited Access Application to the Radiography Program. A minimum 2.5 degree GPA is required to apply to the program.
- Students must complete (or transfer in an equivalent course from another school/provider) the Pre-Health Science Core requirements prior to starting the program in August:
  - HCP 0001 (Health Careers Core Curriculum)
  - HSC 0405 (Basic Life Support (CPR) Students)
  - HSC 0522 (Tuberculosis/OSHA/Hepatitis For Students)
  - HSC 0591 (HIV/AIDS Students)
  - HSC 0691 (Domestic Violence For Students)
  - HSC 0692 (Prevention of Medical Errors)

Criteria for Student Selection

After satisfying the admission requirements, selection of students for the program will be based on a point system. Points will be awarded for the number of courses completed toward the AS Degree in Radiography. Only those courses required for the AS Degree in Radiography (exclusive of the prerequisite courses & pre-health science core requirements) will be used to award points. One point will be awarded for each course successfully completed with a minimum of a “C” (or “S”) grade regardless of the number of credits. The points awarded for courses completed at BC or that are transferred in as equivalent are as follows:

Students with the highest point totals will be offered admission to the program. In the event of a tie, admission will additionally be based on date of application (first come, first serve). Students are therefore encouraged to apply as soon as possible. Applications are accepted from January through March. See the Health Science Program Prerequisites sheet located on the Health Science Admissions Web page for the exact date in January when applications will be accepted and the cut-off date in March. In the event that both points & date of application are identical, admission will be based on the student’s degree GPA. Only those applications meeting the program selection criteria will be considered.

Related Programs
Hospital Based Radiography Associate in Science Degree Major Code 2131

5 Students can earn a degree from either 2131 or 21311, but not both programs.

General Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Note: All accepted applicants are guaranteed a clinical placement during the program. However, there are no guarantees that the clinical facility will be located close to the applicant’s home. Students may have to drive up to one hour or more from their home to the clinical site for which they have been assigned. Students will rotate to three different clinical sites during the program.

The program is offered in Building 8 on Central Campus. Applicants should access admission information online at www.broward.edu/healthsciences or call 954-201-2890. For specific program information call the Program Manager at 954-201-6902.

Note: Program applicants who have criminal convictions should clear the ARRT ethics requirements through a pre-application review of eligibility process prior to starting the program. This review process with the ARRT is done to avoid potential denial of eligibility to take the exam or delays when applying to take the certification exam. Applicants should contact the ARRT directly at 651-687-0048 for further information.
Program Description

Incomplete applications or those received before students have completed the prerequisite courses will be returned to the applicant. There is no waiting list to get into the program. Those not admitted must reapply for the following year.

Students selected for the program will be notified by the Admissions Department via e-mail during the month of April. Those accepted will be required to attend a pre-admission session & accept or decline their place in the program. Students can defer entry into the program until the following year by request. However, such students must enter the program the following August. Those who do not enter the following year will have to reapply. Students who do not attend the pre-admission session and/or contact Admissions to accept, decline or defer entry into the program will need to reapply for the following year.

Pre-requisite Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HSC 1531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*MTB 1310</td>
<td>Applied Mathematics or</td>
<td></td>
</tr>
<tr>
<td>*MAT 1033</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1060C</td>
<td>Computer &amp; Internet Literacy**</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours 16**

First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RTE 1503</td>
<td>Radiographic Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>*RTE 1503L</td>
<td>Radiographic Procedures I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*RTE 1000</td>
<td>Introduction to Radiologic Technology</td>
<td>3</td>
</tr>
<tr>
<td>*RTE 1111</td>
<td>Patient Care, Law, &amp; Ethics</td>
<td>2</td>
</tr>
<tr>
<td>*RTE 1804</td>
<td>Clinical Education I</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours 14**

First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RTE 1513</td>
<td>Radiographic Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>*RTE 1513L</td>
<td>Radiographic Procedures II Lab</td>
<td>1</td>
</tr>
<tr>
<td>*RTE 1418</td>
<td>Imaging I</td>
<td>2</td>
</tr>
<tr>
<td>*RTE 1418L</td>
<td>Imaging I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*RTE 1613</td>
<td>Radiographic Physics</td>
<td>2</td>
</tr>
<tr>
<td>*RTE 1814</td>
<td>Clinical Education II</td>
<td>2</td>
</tr>
<tr>
<td>*BSC 1086</td>
<td>Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1086L</td>
<td>Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Hours 15**

First Year Term III, Sessions 1, 2 or 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RTE 1523</td>
<td>Radiographic Procedures III</td>
<td>2</td>
</tr>
<tr>
<td>*RTE 1523L</td>
<td>Radiographic Procedures III Lab</td>
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<tr>
<td>*RTE 1824</td>
<td>Clinical Education III</td>
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**Total Semester Hours 5**

Second Year Term I

<table>
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<tr>
<td>*RTE 2533</td>
<td>Radiographic Procedures IV</td>
<td>2</td>
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<tr>
<td>*RTE 2457</td>
<td>Imaging II</td>
<td>2</td>
</tr>
<tr>
<td>*RTE 2457L</td>
<td>Imaging II Lab</td>
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<tr>
<td>*RTE 2385</td>
<td>Radiation Biology &amp; Protection</td>
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<tr>
<td>*RTE 2834</td>
<td>Clinical Education IV</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or</td>
<td></td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
<td>3</td>
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**Total Semester Hours 13**

Second Year Term II

<table>
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<th>Course Name</th>
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<tr>
<td>*RTE 2623</td>
<td>Radiographic Equipment &amp; Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>*RTE 2130</td>
<td>Pharmacology &amp; Venipuncture</td>
<td>1</td>
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<tr>
<td>*RTE 2130L</td>
<td>Pharmacology &amp; Venipuncture</td>
<td>1</td>
</tr>
<tr>
<td>*RTE 2782</td>
<td>Radiographic Pathology</td>
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<tr>
<td>*RTE 2844</td>
<td>Clinical Education V</td>
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<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
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**Total Semester Hours 12**

Second Year Term III, Session 2

<table>
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<tr>
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<td>*RTE 2061</td>
<td>Radiography Seminar</td>
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<tr>
<td>*RTE 2854</td>
<td>Clinical Education VI</td>
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</table>

**Total Semester Hours 2**

**Total Program Semester Hours 77**

* Requires a pre- or co-requisite or proper score on placement test. Refer to the course descriptions found in this catalog or online at www.broward.edu.

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an academic advisor or counselor every term.

Requirements for Associate in Science Degree in Radiography

- Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Complete the pre-requisite courses with a GPA of 2.5 or higher.
- Complete 77 credit hours as listed with a degree GPA of 2.0 or higher.
- Maintain no less than a “C” grade in all degree courses.

Note: In order to successfully progress through the Radiography Program, students must achieve all cognitive, affective, and psychomotor objectives. This requires a grade of "C" or above to be earned in all didactic courses and an "S" (satisfactory) grade in all clinical/laboratory courses. This is in addition to maintaining an overall degree GPA of at least 2.0.
Program Description
This program provides a means for graduates of accredited hospital-based two-year programs to obtain an Associate of Science Degree in Radiography. To qualify for this program, applicants must be currently registered as a radiographer, nuclear medicine technologist, radiation therapists, or diagnostic medical sonographer.

The general education courses in this degree are offered at all BC locations.

Related Programs
Radiography Associate in Science Degree Major Code 2131 §
§Students can earn a degree from either 2131 or 21311, but not both programs.

General Entrance Requirements
• HS Diploma or GED
• PERT†
† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Criteria for Admission to the Associate in Science Degree for Hospital Based Radiography Graduates
• Applicants must fulfill the Health Science Program admission requirements and be certified or licensed in their respective modality. Students will need to submit an Experiential Learning Application for previous training or experience. Contact the Associate Dean for Medical Imaging at 954 201-2352 for more information.
• Document satisfactory completion of college preparatory courses if required.

Requirements for the Associate in Science Degree for Hospital Based Radiography Graduates
• Meet BC’s graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
• Completion of a minimum of 77 credits hours which includes 48 semester hours of credit for previous training or experience with a degree GPA of 2.0 or higher.
• Complete the following with a grade of “C” or higher in all degree courses.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HSC 1531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>*ENC1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*MTB 1310</td>
<td>Applied Mathematics or</td>
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<tr>
<td>*MAT 1033</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking or</td>
<td></td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech</td>
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</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>**CGS 1060C</td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>*BSC 1086</td>
<td>Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1086L</td>
<td>Anatomy and Physiology II Lab</td>
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</tr>
<tr>
<td>**</td>
<td>Total General Education Hours</td>
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</tr>
<tr>
<td>Experiential Learning Credits</td>
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<tr>
<td>**</td>
<td>Total Program Hours</td>
<td>77</td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. Refer to the course descriptions found online at www.broward.edu.

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

It is strongly recommended that students see an academic advisor or counselor every term.
RESPIRATORY CARE
Associate in Science Major Code 2132

Program Description
Respiratory Care is a two year full-time day program that specializes in dealing with the diagnosis, treatment, and rehabilitation of patients with cardiopulmonary disorders. The program is accredited by the Commission on Accreditation for Respiratory Care (CoARC). The degree satisfies the requirements established by the National Board for Respiratory Care and qualifies the graduate as a candidate for the national registry examination.

Refer to the Respiratory Care website for more information: www.broward.edu/respiratorycare

Criteria for Admission to the Respiratory Care-Associate in Science Degree:
- Applicants must be 18 years of age to apply to the Respiratory Care Program
- Prior to applying to the Respiratory Care Program, the prospective applicant must first apply to Broward College and be accepted to the college.
- Applicants must complete the prerequisite courses with a minimum grade point average of 2.50 prior to submitting their application.
- Applications will be ranked for placement in the program based on the following point system:
  1. GPA in program prerequisite courses; 4 points for GPA 3.0 – 4.0, 3 points for GPA 2.75 – 2.99, and 1 point for GPA 2.5 – 2.74.
  2. Upper level math and science courses: 1 point for each upper level course.
  3. Completion of BSC1086 and BSC1086L: 1 point.

*Upper level math and science courses: Courses that were not required for the respiratory program but are more advanced than the prerequisite courses or program required courses:
  - Chemistry
  - Physics
  - Calculus
  - Statistics

- Along with the prerequisite courses, there are also four “continuing education courses” that must be completed after acceptance into the program and prior to September 15th:
  - HSC0405 CPR /BLS (American Heart Association) 8 clock hours,
  - HSC 0591 HIV/AIDS 4 clock hours,
  - HSC 0691 Domestic Violence 2 clock hours,
  - HSC0522 TB/OSHA/Hepatitis 6 clock hours.
- Completion of a day of job shadowing is also required before the program starts in August—contact the Program Manager.
- While waiting for admission to the program, it is recommended that human anatomy and physiology II with the lab, microbiology/microbiology lab and medical terminology be completed ahead of time.

- Applicants must complete a Medical History and Physical Examination prior to the start of the Respiratory Care Program in August. The medical form for your physician is online at www.broward.edu/healthsciences.
- Applicants must pass a criminal background check and a drug screening as required by the admissions department.

Respiratory care program progression policy:
Auditing Passed Courses is Required
The program has an obligation to assure that any student who progresses in the program and is eventually assigned to a clinical rotation has demonstrated sufficient academic knowledge as well as competency in the skills that will be required in the clinical arena. A student repeating a respiratory course will be required to audit all respiratory courses already passed in the same year as the failed course. ** All students must be aware that if they are receiving Financial Aid, these audited courses will not be included in the financial aid package. The student must pay the full cost of the course including any fees that are part of the course.

** Auditing an already passed respiratory care course: The audited course must be successfully repeated (grade of “C” or higher) in order to continue in the respiratory program.

Requirements for the Associate in Science Degree in Respiratory Care:
- Completion of 76 semester hours.
- No grade lower that a “C” will be acceptable in any degree related course.

Other Entrance Requirements
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

Continued on next page
# RESPIRATORY CARE

**Associate in Science Major Code 2132 (cont.)**

## Pre-requisite Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1085</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHM 1032</td>
<td>Chemistry for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1033</td>
<td>Intermediate Algebra or Applied Mathematics</td>
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</table>

**Total Term Semester Hours**: 13

## First Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>RET 1026</td>
<td>Respiratory Care Equipment</td>
<td>3</td>
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<tr>
<td>*RET 1026L</td>
<td>Respiratory Care Equip. Lab</td>
<td>1</td>
</tr>
<tr>
<td>RET 1485</td>
<td>Cardiopulmonary Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 1531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1086</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1086L</td>
<td>Human Anatomy and Physiology II Lab</td>
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**Total Term Semester Hours**: 14

## Second Year Term I

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<tr>
<td>*RET 2834L</td>
<td>Clinic III</td>
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<tr>
<td>*RET 2265</td>
<td>Advanced Equipment</td>
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<tr>
<td>*RET 2265L</td>
<td>Advanced Equipment Lab</td>
<td>1</td>
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<tr>
<td>*RET 2714</td>
<td>Pediatric &amp; Neonatal Respiratory Care</td>
<td>3</td>
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<tr>
<td>*RET 2414</td>
<td>Pulmonary Function</td>
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<tr>
<td>*RET 2414L</td>
<td>Pulmonary Function Lab</td>
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<td>*RET 2934</td>
<td>Selected Topics in Respiratory Care</td>
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**Total Term Semester Hours**: 12

## First Year Term II

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<tr>
<td>*RET 1264</td>
<td>Mechanical Ventilation</td>
<td>3</td>
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<tr>
<td>*RET 1264L</td>
<td>Mechanical Ventilation Lab</td>
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<tr>
<td>*RET 1484</td>
<td>Cardiopulmonary Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>*RET 1832L</td>
<td>Clinic I</td>
<td>3</td>
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<tr>
<td>*CVM 1200</td>
<td>Cardiopulmonary Pharmacology</td>
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**Total Term Semester Hours**: 13

## Second Year Term II

<table>
<thead>
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<th>Course Title</th>
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<tbody>
<tr>
<td>*RET 2835L</td>
<td>Clinic IV</td>
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<td>*RET 2286C</td>
<td>Management of the Intensive Care Patient</td>
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<td>*RET 2601</td>
<td>Hospital Interactions</td>
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<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
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<td>Elective</td>
<td>Humanities/Fine Arts</td>
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<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or</td>
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</tr>
<tr>
<td>SPC 1608</td>
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</table>

**Total Term Semester Hours**: 15

**Total Program Semester Hours**: 76

*Requires a pre- or co-requisite or proper scores on placement test. See course description in this catalog or online at www.broward.edu.

It is strongly recommended that students see an academic advisor or counselor every term.
RESTAURANT MANAGEMENT  
Associate in Applied Science Major Code A027

**Program Description**  
The Restaurant Management Associate in Applied Science degree, offered at Central Campus, emphasizes the development of management skills needed in the food service industry. Food preparation classes and labs are taught in the area technical schools (see note below). The general education requirements develop students’ abilities in communications and interpersonal skills. Through the use of practicums, graduates will have a working knowledge of industry practices leading to strong employability.

For further information, please contact the Program Manager at 954-201-6710.

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework; see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
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<tr>
<th>First Year Term I</th>
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<tbody>
<tr>
<td>#FOS 2201</td>
<td>Food Service Sanitation and Safety</td>
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<tr>
<td>#FSS 1221C</td>
<td>Volume Foods</td>
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<tr>
<td>#FSS 1240</td>
<td>Classical Cuisine</td>
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</tr>
<tr>
<td>#FSS 1284</td>
<td>Catering</td>
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<tr>
<td>#FSS 2242</td>
<td>International Cuisine</td>
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<tbody>
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<td>OST 2335</td>
<td>Communications in the Workforce</td>
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<tr>
<td>HFT 2600</td>
<td>Hospitality Law</td>
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</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communication</td>
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</tr>
<tr>
<td>HFT 2220</td>
<td>Organization and Personnel Management</td>
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<td>CGS 1060C</td>
<td>Computer and Internet Literacy</td>
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<table>
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<tbody>
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<td>Humanities/Fine Arts</td>
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<tr>
<td>*Elective</td>
<td>Mathematics or Science</td>
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</thead>
<tbody>
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<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HFT 1210</td>
<td>Supervisory Development</td>
<td>3</td>
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<tr>
<td>HFT 2500</td>
<td>Marketing</td>
<td>3</td>
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<tr>
<td>HFT 1941</td>
<td>Operations and Service Practicum</td>
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<tbody>
<tr>
<td>HFT 2942</td>
<td>Management and Control Practicum</td>
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<tr>
<td>HFT 2460</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FSS 2500</td>
<td>Food Service Costing and Controls</td>
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<tr>
<td>+Elective</td>
<td>Business Ethics</td>
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<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
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<tr>
<td><strong>Total Term Semester Hours</strong></td>
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<tr>
<td><strong>Total Program Semester Hours</strong></td>
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<td></td>
</tr>
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</table>

*Requires a pre-requisite or proper score on placement test. See course description online at www.broward.edu.

#These five courses are offered only at Atlantic, McFatter and Sheridan Vocational Centers in the 18-week block that starts either at the end of August or January.

+GEB 2430, Business Ethics, or any other one-credit elective.

It is strongly recommended that students see an academic advisor or counselor every term.
## Program Description
The Sports, Fitness and Recreation Management Program, offered on A. Hugh Adams Central Campus, leads to an Associate in Science degree. It is designed for individuals seeking employment or advancements in the recreation field. **Required courses may be taken in any order.**

### Entrance Requirements
- HS Diploma or GED
- PERT
  - The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

### First Year Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td><strong>CGS1060C</strong></td>
<td>Computer and Internet Literacy</td>
<td>3</td>
</tr>
<tr>
<td>LEI 1000</td>
<td>Introduction to Recreation</td>
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<tr>
<td>HSC 2400</td>
<td>First Aid</td>
<td>3</td>
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<tr>
<td>PET 1303</td>
<td>Foundations of Exercise Science</td>
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<tr>
<td>PEO 1031C</td>
<td>Individual Sports and Activities</td>
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**Total Semester Hours**: 17

### First Year Term II

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<tbody>
<tr>
<td>SOP 2002</td>
<td>Social Psychology or</td>
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<tr>
<td>SYG 2000</td>
<td>Introduction to Sociology</td>
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</tr>
<tr>
<td>HSC 2100</td>
<td>Personal and Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HLP 1081</td>
<td>Health Fitness</td>
<td>2</td>
</tr>
<tr>
<td>PEO 1011C</td>
<td>Team Sports and Activities</td>
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</tr>
<tr>
<td>LEI 1700</td>
<td>Recreation for Special Groups</td>
<td>3</td>
</tr>
<tr>
<td>PET 2622</td>
<td>Care/Prevention/Athletic Injuries</td>
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**Total Semester Hours**: 15

### First Year Term III

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 1009</td>
<td>Environmental Science</td>
<td>3</td>
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</table>

**Total Semester Hours**: 3

### Second Year Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
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<tr>
<td>LEI 2401</td>
<td>Sports, Fitness and Recreation Management</td>
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### Second Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>LEI 1260</td>
<td>Introduction to Fitness and Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>LEI 2731C</td>
<td>Sports, Fitness and Recreation Therapy</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 14

### Total Program Semester Hours: 64

### Note:
Students are required to complete College Prep Math.

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

**Examples: Swimming, Sailing, Windsurfing, Golf, Archery, or Tennis.

** Students who pass the basic student technology test, instead of taking CGS1060C, should complete 3 credits of Wellness Activity courses (i.e. college-level courses with PEL, PEM, PEN, PEO and PET prefixes.

It is strongly recommended that students see an academic advisor or counselor every term.
TELECOMMUNICATIONS ENGINEERING TECHNOLOGY
Associate in Applied Science Major Code A028

Program Description
The Telecommunications Engineering Technology Associate in Applied Science degree, offered at the North Campus, prepares students for employment in the rapidly growing telecommunications field. Telecommunications technicians are professionals responsible for installing, calibrating, maintaining and repairing equipment used in fiber optics, cellular networks, cable TV, telephone switching systems, and digital data communications and transmission. Graduates may also be employed in sales, marketing and management in the telecommunications field. This program transfers directly to Nova Southeastern University.

Entrance Requirements
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I
CET 1114C  Digital Techniques  5
*MTB 1325  Engineering Tech. Mathematics I  4
*EET 1015C  DC Circuits  5
Total Term Semester Hours  14

First Year Term II
*EET 1141C  Linear Techniques I  5
*EET 1025C  AC Circuits  5
*ENC 1101  Composition I  3
Total Term Semester Hours  13

First Year Term III
*CET 1461C  Technical Computer Applications  3
*CET 1117C  Microprocessors I  4
Total Term Semester Hours  7

Second Year Term I
*CET 2123C  Microprocessors II  4
*EET 2355C  Data Communications  3
*EET 2142C  Linear Techniques II  4
Elective  Humanities/Fine Arts  3
Total Term Semester Hours  14

Second Year Term II
*EET 2326C  Electronic Communications  4
*EST 2224C  Fiber Optic Communications  3
*EET 2358C  Advanced Communication Tech.  3
SPC 1024  Intro to Speech Communications or
SPC 1608  Intro to Public Speaking  3
Elective  Social/Behavioral Science  3
Total Term Semester Hours  16
Total Program Semester Hours  64

*Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu.

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Technical courses should be taken in the sequence suggested unless approved by the Department Head.

These requirements apply to students who enrolled in Broward College for the first time in academic year 2008-2009.

Students who complete the degree requirements shown on the program sheet will have satisfied the speech requirements for this program.

It is strongly recommended that students see an academic advisor or counselor every term.
**TRAVEL AND TOURISM INDUSTRY MANAGEMENT**
Travel and Tourism Industry Management Associate in Science Major Code 2142

**Program Description**
The Travel and Tourism Industry Management Associate degrees, offered at A. Hugh Adams Central Campus, emphasizes the development of management skills needed in the travel/tourism industry. The general education requirements of the program develop students' abilities in communications and interpersonal skills. The use of practicum work experience provides graduates with knowledge of industry practices, which increases their value to employers.

For more information, please contact the Program Manager at 954-201-6710.

**Entrance Requirements**
- HS Diploma or GED
- PERT‡

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**First Year Term I**
- ENC 1101 Composition I 3
- HFT 1210 Supervisory Development 3
- HFT 1050 Introduction to Tourism Industries and Administration 3
- MTB 1103 Business Mathematics 3
- GEA 2000 World Geography 3

**Total Term Semester Hours** 15

**First Year Term II**
- OST 2335 Communications in the Workforce 3
- HFT 2220 Organization and Personnel Management 3
- HFT 2721 Travel Agency Management/Operations 3
- *Elective Mathematics or Science (Areas 4 or 5) 3
- HFT 2600 Hospitality Law 3

**Total Term Semester Hours** 15

**Second Year Term I**
- SPC 1024 Introduction to Speech Communication 3
- MKA 1021 Salesmanship 3
- HFT 1941 Operations and Service Practicum 3
- HFT 2500 Marketing 3
- ENC 1102 Composition II 3

**Total Term Semester Hours** 15

**Total Program Semester Hours** 64

*Requires a pre-requisite or proper score on placement test. See course description online at www.broward.edu.

#GEB 2430, Business Ethics, or any other one-credit elective. Electives to be determined in consultation with the program advisor.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Associate Degree Programs in Vision Care Technology is a two year full-time day program that provides the student with the opportunity to develop competency in skills relative to caring for a patient's eyes. An Optician plays a vital role in the fitting and adapting of corrective lenses and other optical devices to aid people's vision and correct ocular deficiencies. To accomplish this, the optician must use scientific and clinical procedures and apply learned skills to correctly produce and fit quality eyewear and contact lenses. The curriculum has been designed to train the student in the laboratory techniques of measuring, grinding, fitting, and adapting to eyewear.

The program is offered in Building 41 on North Campus. Applicants should access admission information online at www.broward.edu/healthsciences, or call 954-201-2890. Applicants should call the Associate Dean at 954-201-2017 or 954-201-2080 for specific program information.

General Entrance Requirements
- HS Diploma or GED
- PERT†

† The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

<table>
<thead>
<tr>
<th>First Year Term I</th>
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<tbody>
<tr>
<td>OPT 1210 A and P of the Eye</td>
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<tr>
<td>OPT 1110 Physical and Geometric Optics</td>
<td>3</td>
</tr>
<tr>
<td>OPT 1110L Physical and Geometric Optics Lab</td>
<td>1</td>
</tr>
<tr>
<td>OPT 1330 Orientation to Vision Care</td>
<td>2</td>
</tr>
<tr>
<td><em>ENC 1101 Composition</em></td>
<td>3</td>
</tr>
<tr>
<td>*MTB 1310 Applied Mathematics or</td>
<td></td>
</tr>
<tr>
<td>*MAT1033 Intermediate Algebra</td>
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<td><strong>Total Term Semester Hours</strong></td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>*OPT 1150 Ophthalmic Lenses</td>
<td>2</td>
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<tr>
<td>*OPT 1150L Ophthalmic Lenses Lab</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 2090 Orientation to Vision Care Clinic</td>
<td>1</td>
</tr>
<tr>
<td>*OPT 2375 Refractometry</td>
<td>2</td>
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<tr>
<td>OPT 2879 Refractometry Practicum</td>
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<td>CGS 1060C Computer and Internet Literacy</td>
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<td>*OPT 1450 Ophthalmic Dispensing Procedures</td>
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<td>*OPT 1450L Ophthalmic Dispensing Procedures Lab</td>
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<tr>
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<td>*OPT 2800L Vision Care Clinic I</td>
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<tr>
<td>SPC 1608 Public Speaking or Communication</td>
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<tr>
<td>SPC 1024 Introduction to Speech</td>
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<td><strong>Total Term Semester Hours</strong></td>
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<table>
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<tr>
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<td>*OPT 2420 Eyewear Fabrication I</td>
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<tr>
<td>*OPT 2420L Eyewear Fabrication I Lab</td>
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<tr>
<td>*OPT 2830L Contact Lens Clinic I</td>
<td>2</td>
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<tr>
<td>*OPT 2460 Ophthalmic Dispensing Clinic I</td>
<td>2</td>
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<tr>
<td>*OPT 2875 Ophthalmic Dispensing Practicum I</td>
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<td>*BSC 1005 General Biology</td>
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<td>Elective Social/Behavioral Science</td>
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<td><strong>Total Term Semester Hours</strong></td>
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<thead>
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<td>*OPT 2421 Eyewear Fabrication II</td>
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</tr>
<tr>
<td>*OPT 2421L Eyewear Fabrication II Lab</td>
<td>3</td>
</tr>
<tr>
<td>*OPT 2831L Contact Lens Clinic II</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 2461 Ophthalmic Dispensing Clinic II</td>
<td>3</td>
</tr>
<tr>
<td>*OPT 2876 Ophthalmic Dispensing Practicum II</td>
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</tr>
<tr>
<td>*OPT 2060 Ophthalmic Management and Practice</td>
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</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
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</tbody>
</table>

Criteria for Admission to the Opticianry Program:
- Applicants must fulfill the requirements for admission to Health Science Programs.
- A minimum 2.0 degree or high school GPA.
- Applicants must complete the Pre-Health Core requirements (HCP 0001, HSC0405, HSC0591, HSC0474, and HSC0522) prior to admission to the program.

Requirements for the Associate in Science in Opticianry Major Code 21891:
- Meet BC's graduation requirements as listed in the Academic Programs and Graduation Requirements section of the College Catalog.
- Completion of a minimum of 72 semester hours of credit and a degree GPA of 2.0 or higher.
- No grade lower than "C" will be acceptable in any course required for the degree.
## Career & Technical Education

### Program Placement Rates

Current placement rates for Associate of Science (AS), Technical Certificate (TC), and Post-Secondary Adult Vocational (PSAV) programs as reported by the Florida Education and Training Placement Information Program (FETPIP).

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Award Type</th>
<th>Program Code</th>
<th>CIP Code</th>
<th>2006-07 Placement Rate</th>
<th>2007-08 Placement Rate</th>
<th>2008-09 Placement Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Technology</td>
<td>AS</td>
<td>2100</td>
<td>1507010100</td>
<td>100%</td>
<td>92%</td>
<td>70%</td>
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<tr>
<td>Airport Operations Management</td>
<td>AS</td>
<td>21051</td>
<td>1649010400</td>
<td>67%</td>
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<td>83%</td>
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<tr>
<td>Automotive Service Management</td>
<td>AS</td>
<td>21681</td>
<td>1615080300</td>
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<td>50%</td>
<td>100%</td>
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<tr>
<td>Aviation Maintenance Management</td>
<td>AS</td>
<td>2204</td>
<td>1649010400</td>
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<td>29%</td>
<td>83%</td>
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<tr>
<td>Aviation Operations</td>
<td>AS</td>
<td>2105</td>
<td>1649010400</td>
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<td>83%</td>
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<td>Building Construction Technology</td>
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<td>2184</td>
<td>1615100101</td>
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<td>83%</td>
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<td>Business Administration</td>
<td>AS</td>
<td>2119</td>
<td>1506040102</td>
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<td>83%</td>
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<td>Computer Programming &amp; Analysis</td>
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<td>2195</td>
<td>1507030500</td>
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<td>60%</td>
<td>75%</td>
</tr>
<tr>
<td>Computer Systems Specialist</td>
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<td>21491</td>
<td>1507030600</td>
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<td>67%</td>
<td>33%</td>
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<tr>
<td>Crime Scene Emphasis</td>
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<td>21102</td>
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<td>61%</td>
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<td>61%</td>
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<td>Dental Hygiene</td>
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<td>91%</td>
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<td>Diagnostic Medical Sonography Technology (Ultrasound)</td>
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<td>1317021200</td>
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<td>NA</td>
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<td>Early Childhood Education</td>
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<td>1420020203</td>
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<td>75%</td>
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<tr>
<td>Emergency Medical Services</td>
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<td>2160</td>
<td>1317020601</td>
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<td>Environmental Science Technology</td>
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<td>1715059901</td>
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<td>Fire Science Technology</td>
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<td>Graphic Design Technology</td>
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<td>Health Information Management</td>
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<td>1317050600</td>
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<td>71%</td>
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<tr>
<td>Hospitality &amp; Tourism Management</td>
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<td>1722010300</td>
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<td>1206140100</td>
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<td>Networking Services Technology</td>
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<td>2201</td>
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<tr>
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<td>Program Code</td>
<td>CIP Code</td>
<td>2006-07 Placement Rate</td>
<td>2007-08 Placement Rate</td>
<td>2008-09 Placement Rate</td>
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<tr>
<td>Nuclear Medicine Technology</td>
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<td>1317020800</td>
<td>NA</td>
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<tr>
<td>Nursing (RN)</td>
<td>AS</td>
<td>2127</td>
<td>1318110100</td>
<td>96%</td>
<td>98%</td>
<td>96%</td>
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<tr>
<td>Nursing LPN-RN Transition</td>
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<td>21271</td>
<td>1318110100</td>
<td>96%</td>
<td>98%</td>
<td>96%</td>
</tr>
<tr>
<td>Oracle Professional Database Administrator</td>
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<td>21492</td>
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<td>100%</td>
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<td>33%</td>
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<tr>
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<td>Physical Therapy Assistant</td>
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<td>1317081500</td>
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<td>Polygraph Emphasis</td>
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<td>Professional Pilot Technology</td>
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<td>Radiation Therapy</td>
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<td>33%</td>
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<td>Business Specialist (International Business or Small Business Management Option)</td>
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<td>Computer Programming Sun Java Specialist</td>
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<td>Customer Service</td>
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<td>Digital Media / Multimedia Production</td>
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<td>62674</td>
<td>0506180101</td>
<td>96%</td>
<td>100%</td>
<td>93%</td>
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<tr>
<td>Food &amp; Beverage Management</td>
<td>TC</td>
<td>6301</td>
<td>0206079901</td>
<td>NA</td>
<td>82%</td>
<td>86%</td>
</tr>
<tr>
<td>General Sonography Specialist (Ultrasound)</td>
<td>TC</td>
<td>6230</td>
<td>0317021201</td>
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<td>78%</td>
<td>100%</td>
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<tr>
<td>Graphic Design Production</td>
<td>TC</td>
<td>6289</td>
<td>0650040204</td>
<td>100%</td>
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<td>78%</td>
</tr>
<tr>
<td>Graphic Design Support</td>
<td>TC</td>
<td>6290</td>
<td>0650040202</td>
<td>100%</td>
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<tr>
<td>Guest Services Specialist</td>
<td>TC</td>
<td>6300</td>
<td>0206079903</td>
<td>-</td>
<td>83%</td>
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</tr>
<tr>
<td>Information Technology Management Microsoft MCITP - Server Administrator</td>
<td>TC</td>
<td>6283</td>
<td>0507030404</td>
<td>91%</td>
<td>83%</td>
<td>87%</td>
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<tr>
<td>Program Title</td>
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<td>Program Code</td>
<td>CIP Code</td>
<td>2006-07 Placement Rate</td>
<td>2007-08 Placement Rate</td>
<td>2008-09 Placement Rate</td>
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<tr>
<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Information Technology Management Network Support Technician</td>
<td>TC</td>
<td>6282</td>
<td>0507030404</td>
<td>91%</td>
<td>83%</td>
<td>87%</td>
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<tr>
<td>Information Technology Support Specialist - Help Desk Specialist</td>
<td>TC</td>
<td>62822</td>
<td>0507030606</td>
<td>100%</td>
<td>100%</td>
<td>NA</td>
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<tr>
<td>Information Technology Support Specialist - Microsoft Office Specialist (MOS)</td>
<td>TC</td>
<td>62823</td>
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<tr>
<td>Logistics Specialist</td>
<td>TC</td>
<td>6288</td>
<td>0506040103</td>
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<td>100%</td>
</tr>
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<td>Marketing Operations</td>
<td>TC</td>
<td>6240</td>
<td>0206140120</td>
<td>86%</td>
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<td>0%</td>
</tr>
<tr>
<td>Medical Office Management</td>
<td>TC</td>
<td>6281</td>
<td>0507060305</td>
<td>NA</td>
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<td>100%</td>
</tr>
<tr>
<td>Networking - Cisco CCNA</td>
<td>TC</td>
<td>62387</td>
<td>0507030404</td>
<td>91%</td>
<td>83%</td>
<td>87%</td>
</tr>
<tr>
<td>Nuclear Medicine Technology Specialist</td>
<td>TC</td>
<td>6224</td>
<td>0317020801</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Office Management</td>
<td>TC</td>
<td>6237</td>
<td>0317060301</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Office Specialist</td>
<td>TC</td>
<td>6280</td>
<td>0507060304</td>
<td>100%</td>
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<td>Office Support</td>
<td>TC</td>
<td>6279</td>
<td>0507060302</td>
<td>100%</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>Oracle Systems Administrator (Database Administrator Option)</td>
<td>TC</td>
<td>62386</td>
<td>0507030612</td>
<td>100%</td>
<td>0%</td>
<td>100%</td>
</tr>
<tr>
<td>Paramedic</td>
<td>TC</td>
<td>6208</td>
<td>0317020600</td>
<td>91%</td>
<td>89%</td>
<td>93%</td>
</tr>
<tr>
<td>Radiation Therapy Specialist</td>
<td>TC</td>
<td>6228</td>
<td>0317020903</td>
<td>NA</td>
<td>100%</td>
<td>75%</td>
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<tr>
<td>Rooms Division Management</td>
<td>TC</td>
<td>6302</td>
<td>0206079902</td>
<td>NA</td>
<td>83%</td>
<td>67%</td>
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<tr>
<td>Sports Management</td>
<td>TC</td>
<td>62673</td>
<td>0506180101</td>
<td>96%</td>
<td>100%</td>
<td>93%</td>
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<tr>
<td>Web Development Specialist</td>
<td>TC</td>
<td>6285</td>
<td>0507039903</td>
<td>NA</td>
<td>100%</td>
<td>100%</td>
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<tr>
<td>Aircraft Airframe Mechanics</td>
<td>PSAV</td>
<td>5272</td>
<td>0647060700</td>
<td>82%</td>
<td>63%</td>
<td>63%</td>
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<tr>
<td>Aircraft Powerplant Mechanics</td>
<td>PSAV</td>
<td>5273</td>
<td>0647060800</td>
<td>87%</td>
<td>58%</td>
<td>88%</td>
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<tr>
<td>Avionics</td>
<td>PSAV</td>
<td>5299</td>
<td>0647019901</td>
<td>100%</td>
<td>38%</td>
<td>100%</td>
</tr>
<tr>
<td>Broward County Correctional Probation Officer</td>
<td>PSAV</td>
<td>5282</td>
<td>0743010202</td>
<td>96%</td>
<td>NA</td>
<td>100%</td>
</tr>
<tr>
<td>Broward County Police Academy</td>
<td>PSAV</td>
<td>5269</td>
<td>0743010700</td>
<td>98%</td>
<td>96%</td>
<td>95%</td>
</tr>
<tr>
<td>CMS Law Enforcement Officer - Crossover from Correctional Officer</td>
<td>PSAV</td>
<td>5278</td>
<td>0743010702</td>
<td>NA</td>
<td>100%</td>
<td>NA</td>
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<tr>
<td>Corrections Officer Academy</td>
<td>PSAV</td>
<td>5270</td>
<td>0743010200</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
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<tr>
<td>Dental Assisting</td>
<td>PSAV</td>
<td>5217</td>
<td>0317010107</td>
<td>100%</td>
<td>89%</td>
<td>88%</td>
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<td>Massage Therapy</td>
<td>PSAV</td>
<td>5281</td>
<td>0312040500</td>
<td>100%</td>
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<td>43%</td>
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<td>Medical Assisting</td>
<td>PSAV</td>
<td>5215</td>
<td>0317050300</td>
<td>100%</td>
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<td>100%</td>
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<tr>
<td>Police Service Aide Academy</td>
<td>PSAV</td>
<td>5271</td>
<td>0743999901</td>
<td>94%</td>
<td>90%</td>
<td>96%</td>
</tr>
</tbody>
</table>

NA: data not available
RN-BSN Students
Student Services
Course Information

- Florida Statewide Course Numbering System

- Course Descriptions Index

- Course Descriptions
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 28 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course profiles.”

### Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>No laboratory component in this course</td>
</tr>
<tr>
<td>English Composition</td>
<td>Lower (Freshman)</td>
<td>Freshman Composition Skills</td>
<td>Freshman Composition Skills</td>
<td>Freshman Composition Skills I</td>
<td>No laboratory component in this course</td>
</tr>
</tbody>
</table>

### General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions as listed below in Exception to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 56 different postsecondary institutions. Each institution uses “ENC_101” to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “ENC” means “English Composition,” the century digit “1” represents “Freshman Composition,” the decade digit “0” represents “Freshman Composition Skills,” and the unit digit “1” represents “Freshman Composition Skills I.”

In the sciences and certain other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. **NOTE:** Credit generated at institutions
on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses
Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Thesis and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (i.e., portfolio, audition, interview, etc.).

Courses at Non-regionally Accredited Institutions
The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org) a report entitled “Courses at Nonregionally Accredited Institutions” that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course’s transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to The District Director for Academic Affairs, at (954) 201-7519 or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at http://scns.fldoe.org.
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COURSE DESCRIPTIONS

AACR0001 ADVISEMENT AND REGISTRATION
SESSION
This course is a non-credit offering that will help track those students who register for our advisement and registration sessions (formerly Orientations).
Lec Hrs=2 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AACR0002 ACADEMIC ADVISEMENT AND REGISTRATION
This course will provide students with a solid foundation of knowledge and strategies needed for college success. Students will be instructed in areas of policies/procedures, educational resources, and support services for the college. This course will cover the different disciplines of degrees available, the various course formats and the process of searching/registering for classes. Further emphasis will be placed on areas including academic standing, test scores, preparatory placement, advisement and registration.
Lec Hrs=3 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AACR0003 ACADEMIC ADVISEMENT AND REGISTRATION
This course will provide students with a solid foundation of knowledge and strategies needed for college success. Students will be instructed in areas of policies/procedures, educational resources, and support services for the college. This course will cover the different disciplines of degrees available, the various course formats and the process of searching/registering for classes. Further emphasis will be placed on areas including academic standing, test scores, preparatory placement, advisement and registration.
Lec Hrs=3 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AACR0005 ACADEMIC ADVISEMENT AND REGISTRATION
This course will provide students with English a second language a solid foundation of knowledge and strategies needed for college success. Students will be instructed in areas of policies/procedures, educational resources, and support services for the college. This course will cover the different disciplines of degrees available, the various course formats and the process of searching/registering for classes.
Lec hrs=3 lab hrs=0 oth hrs=0 Fees=0.00

ACG1003 ACCOUNTING SURVEY
Instruction in standard bookkeeping procedures for small professional, service, and retail sole proprietorships. Attention is given to journalizing, posting, preparing the trial balance and financial statements. Procedures for handling petty cash, bank deposits and withdrawals, payroll business tax reports, and special journals are included. This course is primarily for the non-accounting major or for those who need additional background prior to taking ACG2001, Principles of Accounting I. Supplementary review and practice in applying accounting principles is available through usage of computer assisted instructional software. Prerequisite: MTB1103, suggested. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=5.00

ACG2010 PRINCIPLES OF ACCOUNTING I (3)
This course provides an introductory study of the fundamental principles of recording, summarizing and reporting the financial activities of proprietorships. Advisement note: Student achieving less than a grade of "C" may experience academic difficulty in ACG2011, Principles of Accounting II. A grade of less than "C" is not transferable to upper division. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ACG2011 PRINCIPLES OF ACCOUNTING II (3)
As the second course of the series, this course concludes the study of financial accounting. Topics covered include plant assets, current liabilities, payrolls, corporations, partnership and cash flow statements. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in ACG207, Managerial Accounting. A grade of less than "C" is not transferable to upper division. This course can be used for the AA degree.
Prerequisite: ACG2001
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ACG2071 MANAGERIAL ACCOUNTING (3)
As the last course of the series, this course concludes the study of manufacturing accounting and managerial accounting. Topics covered include financial statement analysis, job order costing, the process cost system, cost behavior, cost-volume-profit analysis, budgeting, profit analysis, responsibility accounting, differential analysis, capital investment analysis and decision-making under uncertainty. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in higher level accounting courses. A grade of less than "C" is not transferable to upper division. This course can be used for the AA degree.
Prerequisite: ACG2011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ACG2100 INTERMEDIATE ACCOUNTING I (3)
This course provides a systematic and in-depth study of the financial statements and underlying records. Special attention is given to the elements composing working capital, investments, and plants assets. Advisement Note: Students achieving less than a grade of "C" in ACG2011, Principles of Accounting II, may experience academic difficulty in this course.
Prerequisite: ACG2011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ACG2110 INTERMEDIATE ACCOUNTING II (3)
As the second course of the series, this course continues an in-depth study of financial statements and underlying records. The elements that comprise the equity side of the balance sheet are emphasized with additional attention given to special problems in income determination and financial reporting. Advisement Note: Students achieving less than a grade of "C" in ACG2100, Intermediate Accounting I, may experience academic difficulty in the course. Offered Term I - Central Campus. This course can be used for the AA degree.
Prerequisite: ACG2100
A course designed to teach the principles, operations, diagnosis and repair of manual transmissions and transaxles, drive shafts, axles, clutches and four-wheel drive systems. Special emphasis will be given to safety procedures and the specific tools and instruments to be used.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=67.68

AER298C STEERING AND SUSPENSION (4)
A course designed to teach the principles of steering systems, suspension systems, and wheel alignment and to provide practical experience in repairing automobile suspension and steering systems, aligning front ends and balancing tires. Topics include wheel balancing, suspension systems, suspension angle and lines, wheel alignment, standard steering gears, power steering systems and frames. Special emphasis will be given to safety procedures, and the specific tool and instruments to be used.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=67.68

AER2598C BRAKE SYSTEMS AND CHASSIS REPAIR (4)
A course designed to teach the principles and operations of brake systems including disc systems, split systems, hydraulic cylinders, valve systems, traction control systems, and to provide practical experience in the repair of these systems. Topics include basic brake theory, drum brake systems, split systems, disc brake systems, hydraulic cylinders, machining and measuring techniques, power boosters, and road test procedures. Special emphasis will be given to safety procedures and specific tools and equipment to be used.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=67.68

AER2758C HEATING AND AIR CONDITIONING THEORY (4)
A course designed to teach the principles and operations of automotive heating systems, air conditioning systems and accessories, to provide practical experience in testing, analyzing, installing and repairing heating systems, air conditioning systems, air conditioning tools and equipment, lines, fittings, and valves, operational checks and adjustment, minor repairs, and the special tools and instruments to be used.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=67.68

AER2895C ADVANCED ENGINE PERFORMANCE (4)
A course designed to teach the latest in computer engine controls, electronic fuel injection systems, emission controls and electronic instrumentation systems. This course includes theory of operation and construction, troubleshooting and repair.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=66.43

AER2898C ENGINE PERFORMANCE (4)
A course designed to teach the principles and procedures of engine tune-up and repair, and emission control systems.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=66.43

AER2949 CO OP WORK EXPERIENCE (3)
On-the-job training at an automobile dealership. Each of the eight-week apprentice work experiences will cover one term and includes a work week from 32 to 40 hours in a supervised program at the dealership.
Course Descriptions

AFR1101 FIRST YEAR AIR FORCE ROTC (A) (1)
This is a survey course designed to introduce students to the U.S. Air Force Reserve Officer Training Corps. Featured topics include: officerhood and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. A leadership laboratory is included and provides cadets with leader/follower experiences. Instructions are available at the University of Miami campus, (Tel: 305-284-2870). This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

AFR1111 FIRST YEAR AIR FORCE ROTC (B) (1)
AFR1111 is a continuation of the AFR1101 survey course designed to introduce students to the U.S. Air Force Reserve Officer Training Corps. Featured topics include: Origins of the Air Force, the Air Force Installation and Sister Services. A leadership laboratory is included and provides cadets with leader/follower experiences. Instructions are available at the University of Miami campus, (Tel: 305-284-2870). This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

AFR2130 SECOND YEAR AIR FORCE ROTC (A) (1)
This course examines general historical aspects of air and space power. The course covers the time period from the first balloons and dirigibles to the space age. Examples are provided to demonstrate the historical events leading to the modern day Air Force. An additional focus will be on Air Force core values. Past Air Force operations and the acts of historical Air Force leaders will be points of discussion. A leadership laboratory is included and provides cadets with leader/follower experiences. Instructions are available at the University of Miami campus, (Tel: 305-284-2870). This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

AFR2131 SECOND YEAR AIR FORCE ROTC (B) (1)
This course continues the historical review of air and space power provided in AFR 2130. The course covers the Vietnam era to the conflicts of today. Historical examples are provided to demonstrate the development of Air Force capabilities and missions. This course provides the student with an understanding of the employment of air and space power. In addition, students will study how to become a more effective communicator. A leadership laboratory is included and provides cadets with leader/follower experiences. Instructions are available at the University of Miami campus, (Tel: 305-284-2870). This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

AMH2010 HISTORY OF THE UNITED STATES TO 1877 (3)
This survey course of American history since 1877 provides students with a general history of the political, economic, cultural, and social development of American society. Special emphasis is placed upon U.S. expansion, progressivism, foreign relations, social movements, and political developments at the turn of the twentieth century and beyond. Students will also study the introductory concepts of history reading, writing, and methods. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AMH2035 UNITED STATES HISTORY: 1945 TO THE PRESENT (3)
This survey course of the United States since 1945 provides students with a general history of the political, economic, cultural, social, military, and diplomatic development of American society. Special emphasis is placed upon the end of World War II, the politics of the Cold War at home and abroad, the social movements of the postwar era, the changing U.S. economy since 1945 & the post-Cold War domestic and international challenges faced by the nation. Students will also study the introductory concepts of history reading, writing, and methods. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AMH2091 SURVEY OF AFRICAN-AMERICAN HISTORY (3)
This is a survey course of African American History including the history of ancient and medieval Africa, the emergence and evolution of the Atlantic Slave Trade, and the African American experience in the Western Hemisphere from the sixteenth century to the twenty-first century. Emphasis will be placed on the African American's economic, political, and cultural development and their contributions to American society. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AML2010 AMERICAN LITERATURE: COLONIAL TO 1900 (3)
Students will be selected to works which represent the diverse literature emerging from America up to the 1900. Works may be selected from authors such as Anne Bradstreet, James Fenimore Cooper, Kate Chopin, Emily Dickinson, Frederick Douglass, Ralph Waldo Emerson, Nathaniel Hawthorne, Harriet Jacobs, Thomas Jefferson, Sarah Orne Jewett, Herman Melville, Edgar Allan Poe, Mary Rowlandson, Nat Turner, Mark Twain, and Walt Whitman. Students must earn a minimum grade of "C" to meet the
requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AML2020 AMERICAN LITERATURE (3)
Students will be introduced to works which represent the diverse literature emerging from America since the 1900. Text may be selected from major authors such as Hemingway, Faulkner, Frost, Hughes, Millay, Plath, Ellison, Baldwin, Oates, Angelou and Roth. Upon successful completion of the course students will understand the significant concepts, contexts, movements, figures, and works of American literature in the 20th and 21st century. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AML2600 AFRICAN-AMERICAN LITERATURE (3)
Students will be introduced to works that represent diverse African American literature since 1746. Text may be selected from major authors such as Angelou, Douglass, Hughes, Hurston, King, and Truth. Upon successful completion of the course, students will understand the significant concepts, contexts, movements, figures, and works of African American literature since 1746. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AML2631 HISPANIC AMERICAN LITERATURE (3)
A broad survey of US Hispanic/Latino Literature covering works from the New World Encounter to the present era. Students will analyze text that may be selected from authors such as Alvar Nunez Cabeza De Vaca, Hernando De Soto, Jose Marti, William Carlos Williams, Santiago Baca, Tato Laviera, Sandra Cisneros, Rudolfo Anaya, Gloria Anzaldua, Reinaldo Arenas, Junot Diaz, Jennine Capo Crucet, among others. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AMT0001C BASIC ELECTRICITY (3)
The study of laws and theory of electricity and its application to aircraft systems, components, and circuits, to include practical knowledge of the different types of complex circuitry found in modern aircraft. Student fee charged.
Lec Hrs=45 Lab Hrs=49 Oth Hrs=0 Fees=71.43

AMT0010C AIRCRAFT DRAWINGS (0)
This course covers aircraft drawings, care and use of blueprints, isometrics, orthographic and auxiliary projection lines and section, dimensions, limits, tolerances and allowance geometric, construction, practical layout work and identification of standard parts and material, use of instruments, drawing and interpretation of free hand sketches of repairs and alterations, and use of various types of charts and graphs.
Lec Hrs=12 Lab Hrs=9 Oth Hrs=0 Fees=0.00

AMT0020C WEIGHT AND BALANCE (0)
Familiarizes the student with the importance of weight and balance control, the procedures for weighing an aircraft, the computations necessary to arrive at current and balance data, and the disposition of weight and balance forms and records. The use of loading graphs and charts relating to the aircraft’s center of gravity envelope is taught. Student fee charged.
Lec Hrs=20 Lab Hrs=7 Oth Hrs=0 Fees=61.43

AMT0030C FLUID LINES AND FITTINGS (0)
Prepares the student to fabricate and install rigid and flexible lines and fittings with regard to bends, tools, and lubricants. Provides training in the area of identification of materials, fittings and routing of fluid lines.
Lec Hrs=10 Lab Hrs=16 Oth Hrs=0 Fees=51.43

AMT0040C MATERIALS AND PROCESSES (2)
Familiarizes students with the methods used to identify and select aircraft materials and with various heat treating processes. Provides experience in the use of non-destructive methods of inspection and evaluation. Provides instruction in correct shop practices and procedures, and the use of special tools. Areas covered are torque values, torquing methods, safety wiring, use of precision measuring equipment, shop safety, and technicians’ ethics and legal responsibilities.
Lec Hrs=46 Lab Hrs=38 Oth Hrs=0 Fees=21.43

AMT0050C GROUND OPERATIONS AND SERVICING (1)
Familiarizes the student with the proper methods of starting ground operating, servicing and securing aircraft.
Lec Hrs=10 Lab Hrs=21 Oth Hrs=0 Fees=21.43

AMT0060C CLEANING AND CORROSION CONTROL (0)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and non-ferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components. Student fee charged.
Lec Hrs=12 Lab Hrs=14 Oth Hrs=0 Fees=74.43

AMT0070C APPLIED MATHEMATICS (0)
Reviews principles of mathematical functions and studies their application to aircraft and power plant maintenance operations.
Lec Hrs=14 Lab Hrs=7 Oth Hrs=0 Fees=0.00

AMT0081C FAR'S, FORMS & PRIVILEGES (1)
Familiarizes the student with FAA regulations, advisory circulars, and other government and industry publications. Proper terminology and procedures for the execution of log books, major repair and alteration forms, and privileges and limitations, as they apply to the certified mechanic. Student fee charged.
Lec Hrs=22 Lab Hrs=20 Oth Hrs=0 Fees=10.00

AMT0090C BASIC PHYSICS (0)
Provides an understanding of energy and matter and how their relationships apply to aircraft maintenance.
Lec Hrs=17 Lab Hrs=9 Oth Hrs=0 Fees=0.00
AMT010C AIRCRAFT WOOD STRUCTURES (0)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.
Lec Hrs=9 Lab Hrs=2 Oth Hrs=0 Fees=56.43

AMT015C AIRCRAFT COVERINGS (0)
Student will gain knowledge and skills to inspect, test, and repair fabric-covering materials. The student will be able to select and apply all types of fabric covering, including the synthetics types, and use of proper materials to finish the material. Student fee charged.
Lec Hrs=8 Lab Hrs=4 Oth Hrs=0 Fees=73.43

AMT020C AIRCRAFT FINISHES (1)
Student will acquire the ability to properly use a paint spray gun to apply various types of finishes on a variety of surfaces. The student will be able to apply trim lines and aircraft identification number, touch-up paint defects, and identify and select aircraft finishing materials. Student fee charged.
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=130.43

AMT030C SHEET METAL STRUCTURES (5)
Student is provided with knowledge and skills needed to inspect, maintain, and repair sheet metal structures and components. The course provides the student an introduction to fiberglass, composite and other type non-metallic structural materials and methods of construction using these materials. Student fee charged.
Lec Hrs=41 Lab Hrs=116 Oth Hrs=0 Fees=276.43

AMT040C AIRCRAFT WELDING (1)
A theory and practice of welding methods used in aircraft construction and repair is thoroughly covered with emphasis on gas welding and advanced work in Heli-arc welding. Lab fee is required.
Lec Hrs=15 Lab Hrs=25 Oth Hrs=0 Fees=131.43

AMT055C ASSEMBLY AND RIGGING (2)
Student will explain and compare aircraft design features in subsonic, transonic, and supersonic aircraft. They will be able to assemble and rig aircraft control systems, analyzing and correcting faulty flight characteristics. Student fee charged.
Lec Hrs=20 Lab Hrs=45 Oth Hrs=0 Fees=61.43

AMT060C AIRFRAME INSPECTION (0)
Students will acquire the knowledge and skills needed to perform a 100 hour inspection of an aircraft. The student will demonstrate knowledge of FARs by checking appropriate A.D.'s, classifying repairs, and pinpointing specific service problems. The student will complete the required maintenance forms, records, and inspection reports required by Federal Air Regulations. Student fee charged.
Lec Hrs=5 Lab Hrs=15 Oth Hrs=0 Fees=65.43

AMT0200C LANDING GEAR SYSTEMS (3)
Student will receive training in the proper methods of inspection, servicing and repair of landing gear retraction systems, shock struts, brakes, wheels, tires and steering systems. Rigging of various types retractable landing gear systems will be covered in detail. Student fee charged.
Lec Hrs=35 Lab Hrs=50 Oth Hrs=0 Fees=71.43

AMT0210C HYDRAULIC AND PNEUMATICS SYSTEMS (2)
The student will study the theory of operation, maintenance requirements, and adjustments of various hydraulic components and systems. The course will provide the student with the knowledge of pneumatics as used in aircraft operation. The course covers fluid flow, identifies the various actuating units, type of seals, pumps, and differences between hydraulics and pneumatics. Student fee charged.
Lec Hrs=35 Lab Hrs=40 Oth Hrs=0 Fees=119.43

AMT0220C CABIN ATMOSPHERE CONTROL SYSTEMS (1)
This unit covers the various systems used to condition air and cabin pressurization as well as practical experience in inspecting, checking, troubleshooting, and servicing the oxygen system. Student fee charged.
Lec Hrs=20 Lab Hrs=30 Oth Hrs=0 Fees=95.43

AMT0230C AIRCRAFT INSTRUMENTS SYSTEMS (1)
A basic familiarization of aircraft instruments and their function to include removal, installation, and the installed testing of such instruments. Student fee charged.
Lec Hrs=15 Lab Hrs=10 Oth Hrs=0 Fees=88.43

AMT0240C COMMUNICATIONS AND NAVIGATION SYSTEMS (1)
This course introduces the student with basic auto pilot operation and familiarizes him with the installation requirements and use of the various communication and navigation systems. Student fee charged.
Lec Hrs=25 Lab Hrs=5 Oth Hrs=0 Fees=79.43

AMT0250C AIRCRAFT FUEL SYSTEMS (1)
The student is provided with the knowledge and skills needed to maintain fuel systems and fuel system components. He/she will be able to inspect, check, maintain, and repair aircraft fuel system components, fuel dump systems, fuel management and transfer systems, and perform refueling operations. Student fee charged.
Lec Hrs=17 Lab Hrs=23 Oth Hrs=0 Fees=105.43

AMT0260C AIRCRAFT ELECTRICAL SYSTEMS (3)
The types and characteristics of aircraft electrical circuits and components are compared and evaluated. Advanced electrical systems as used in corporate and airline aircraft are studied. The course includes troubleshooting and repairs of AC and DC electrical systems and equipment. Student fee charged.
Lec Hrs=45 Lab Hrs=55 Oth Hrs=0 Fees=71.43

AMT0270C POSITION AND WARNING SYSTEMS (1)
This course presents the student with the inspection, servicing and maintaining of position and warning systems. Included in this area are navigation lights, beacons, and lights indicating the position of various aircraft components. Student fee charged.
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=86.43
AMT0285C ICE, RAIN, & FIRE PROTECTION  (1)
Introduces the student to the basics of ice and rain control as it relates to aircraft surfaces, propellers, windshields, and other components. Methods of ice prevention and ice elimination are taught, provides the student with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of aircraft fire detecting and extinguishing systems. Student fee charged.
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=90.43

AMT0300C RECIPROCATING ENGINES  (5)
The course covers theory and fundamental requirements for aircraft engines, basic parts of internal combustion engines, two-stroke and four-stroke cycle, power measurements and calculations, conversion of heat energy into mechanical energy, horsepower, piston displacement, compression ratio, types of horsepower, crankcase assembly, reduction gearing, crankshafts, and rod assemblies, cylinder and piston assemblies, and bearings used in reciprocating engines.
Student fee charged.
Lec Hrs=45 Lab Hrs=107 Oth Hrs=0 Fees=171.43

AMT0312C TURBINE ENGINES & TURBINE ENGINES TROUBLESHOOTING  (4)
A thorough study of the theory of operation of turbine engines and the function of the related engine components such as compressors, fuel controls, fuel pumps, governors, turbines, etc. Course encounters disassembly, inspection, minimal repairs reassembly test run, and final adjustment.
Co-Requisites: AMT0300, AMT0400, AMT0420, AMT0320.
Student fee charged.
Lec Hrs=50 Lab Hrs=97 Oth Hrs=0 Fees=96.43

AMT0320C ENGINE INSPECTION  (1)
A course study of which details the correct methods of engine removal and installation, inspection and run up testing, including the final adjustments according to FAA regulations and manufacturer's recommendations. Student fee charged.
Lec Hrs=10 Lab Hrs=22 Oth Hrs=0 Fees=97.43

AMT0400C ENGINE INSTRUMENT SYSTEMS  (1)
Students will have knowledge of operation, installation, marking and interpretation of power plant instruments powered by or actuated by non-electrical means. They will be able to install, adjust, and calibrate instruments in accordance with FAA and manufacturer's recommendations. This course will provide experience in inspection, checking, servicing, troubleshooting, and repair of engine instrument systems that are electrical in nature. Student fee charged.
Lec Hrs=12 Lab Hrs=19 Oth Hrs=0 Fees=77.43

AMT0410C ENGINE FIRE PROTECTION SYSTEMS  (0)
To provide the student with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of engine fire detecting and extinguishing systems. Student fee charged.
Lec Hrs=5 Lab Hrs=10 Oth Hrs=0 Fees=76.43

AMT0420C ENGINE ELECTRICAL SYSTEMS AND APU'S  (2)
This course provides knowledge and skills necessary to perform electrical repairs, installations, adjustments, and service. The subject area includes alternators, generators, voltage regulation, and paralleling of generators. The student will be introduced to the operational principles of auxiliary power units. Student fee charged.
Lec Hrs=31 Lab Hrs=38 Oth Hrs=0 Fees=147.43

AMT0435C LUBRICATION SYSTEMS  (1)
Provides a comprehensive knowledge of the purpose and function of lubricants and lubrication system for power plants. Gives experience in identifying and selecting lubricants, as well as, inspecting, checking, servicing and troubleshooting repair of the system and components.
Student fee charged.
Lec Hrs=16 Lab Hrs=26 Oth Hrs=0 Fees=125.43

AMT0440C IGNITION SYSTEMS  (3)
Students will have knowledge of the operation, repair, inspection, and service of reciprocating and jet power plant ignition systems. They will be able to overhaul and troubleshoot the various components of each system.
Student fee charged.
Lec Hrs=37 Lab Hrs=47 Oth Hrs=0 Fees=162.43

AMT0450C ENGINE FUEL SYSTEMS  (1)
Student is provided with knowledge and skills needed to maintain fuel system components. Student will be able to inspect, maintain, check, and repair engine fuel system components. Student fee charged.
Lec Hrs=8 Lab Hrs=12 Oth Hrs=0 Fees=83.43

AMT0451C FUEL METERING SYSTEMS  (2)
Provides a comprehensive knowledge of the purpose and function of fuel system components. The subject area includes controls, instrumentation, fuel injection systems, and water injection systems are also learned. Fuel pumps, filters, and strainers are discussed and practical experience is gained in these areas. Student fee charged.
Lec Hrs=26 Lab Hrs=36 Oth Hrs=0 Fees=147.43

AMT0460C INDUCTION SYSTEMS  (1)
Gives student the knowledge and experience needed to service and maintain induction systems, superchargers, and exhaust systems. Material covered includes controls, indicators, theory of operation and inspection criteria. Student fee charged.
Lec Hrs=11 Lab Hrs=14 Oth Hrs=0 Fees=115.43

AMT0475C ENGINE COOLING & EXHAUST SYSTEMS  (1)
This course provides the student with an understanding of the need for the various types of engine cooling systems. Gives experience in the inspection, checking, servicing, troubleshooting and repairing of engine cooling system. This course will also enable the student to comprehend the function of exhaust systems including turbo charging and thrust reversers. The student will gain experience in inspection, checking, troubleshooting, and repairing various types of exhaust systems. Student fee charged.
Lec Hrs=11 Lab Hrs=15 Oth Hrs=0 Fees=85.43
AMT1090 BASIC PHYSICS (1)
Familiarizes the student with the different types of wood and their relationships with aircraft structures as well as methods of repair to wood structures. Student fee charged.
Lec Hrs=9 Lab Hrs=2 Oth Hrs=0 Fees=46.43

AMT1110 AIRCRAFT WOOD STRUCTURES (1)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.
Lec Hrs=8 Lab Hrs=4 Oth Hrs=0 Fees=61.43

AMT1120 AIRCRAFT FINISHES (1)
Student will acquire the ability to properly use a paint spray gun to apply various types of finishes on a variety of surfaces. The student will be able to apply trim lines and aircraft identification numbers, touch up paint defects, and identify and select aircraft finishing materials.
Pre or Co-requisite: AMT1110
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=61.43

AMT1130 SHEET METAL STRUCTURES (4)
Student is provided with knowledge and skills needed to inspect, maintain, and repair sheet metal structures and components. The course provides the student an introduction to fiberglass, composite and other type non-metallic structural material and methods of construction using these materials. Student fee charged.
Lec Hrs=41 Lab Hrs=116 Oth Hrs=0 Fees=96.43

AMT1140 AIRCRAFT WELDING (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43

AMT115 AIRCRAFT COVERS          (1)
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AMT120 AIRCRAFT FINISHES          (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43

AMT120 AIRCRAFT FINISHES (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43

AMT1060 CLEANING AND CORROSION CONTROL (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43

AMT1070 APPLIED MATHEMATICS (1)
Reviews principles of mathematical functions and studies their application to aircraft and power plant maintenance operations.
Lec Hrs=13 Lab Hrs=7 Oth Hrs=0 Fees=0.00

AMT1081 FAR'S, FORMS & PRIVILEGES (1)
Familiarizes the student with FAA regulations, advisory circulars, and other government and industry publications. Proper terminology and procedures for the execution of log books and major repair and alteration forms, privileges, and limitations as they apply to the certified mechanic. Student fee charged.
Lec Hrs=19 Lab Hrs=16 Oth Hrs=0 Fees=10.00

AMT1090 BASIC PHYSICS (1)
Provides an understanding of energy and matter and how their relationships apply to aircraft maintenance.
Lec Hrs=13 Lab Hrs=7 Oth Hrs=0 Fees=0.00

AMT1110 AIRCRAFT WOOD STRUCTURES (1)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.
Lec Hrs=8 Lab Hrs=4 Oth Hrs=0 Fees=61.43

AMT1120 AIRCRAFT FINISHES (1)
Student will acquire the ability to properly use a paint spray gun to apply various types of finishes on a variety of surfaces. The student will be able to apply trim lines and aircraft identification numbers, touch up paint defects, and identify and select aircraft finishing materials.
Pre or Co-requisite: AMT1110
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=61.43

AMT1130 SHEET METAL STRUCTURES (4)
Student is provided with knowledge and skills needed to inspect, maintain, and repair sheet metal structures and components. The course provides the student an introduction to fiberglass, composite and other type non-metallic structural material and methods of construction using these materials. Student fee charged.
Lec Hrs=41 Lab Hrs=116 Oth Hrs=0 Fees=96.43

AMT1140 AIRCRAFT WELDING (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43

AMT1070 APPLIED MATHEMATICS (1)
Reviews principles of mathematical functions and studies their application to aircraft and power plant maintenance operations.
Lec Hrs=13 Lab Hrs=7 Oth Hrs=0 Fees=0.00

AMT1081 FAR'S, FORMS & PRIVILEGES (1)
Familiarizes the student with FAA regulations, advisory circulars, and other government and industry publications. Proper terminology and procedures for the execution of log books and major repair and alteration forms, privileges, and limitations as they apply to the certified mechanic. Student fee charged.
Lec Hrs=19 Lab Hrs=16 Oth Hrs=0 Fees=10.00

AMT1090 BASIC PHYSICS (1)
Provides an understanding of energy and matter and how their relationships apply to aircraft maintenance.
Lec Hrs=13 Lab Hrs=7 Oth Hrs=0 Fees=0.00

AMT1110 AIRCRAFT WOOD STRUCTURES (1)
Aircraft wood structures are covered in this section and familiarizes the student with the different types of wood used in aircraft structures as well as methods of repair to wood structures. Student fee charged.
Lec Hrs=8 Lab Hrs=4 Oth Hrs=0 Fees=61.43

AMT1120 AIRCRAFT FINISHES (1)
Student will acquire the ability to properly use a paint spray gun to apply various types of finishes on a variety of surfaces. The student will be able to apply trim lines and aircraft identification numbers, touch up paint defects, and identify and select aircraft finishing materials.
Pre or Co-requisite: AMT1110
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=61.43

AMT1130 SHEET METAL STRUCTURES (4)
Student is provided with knowledge and skills needed to inspect, maintain, and repair sheet metal structures and components. The course provides the student an introduction to fiberglass, composite and other type non-metallic structural material and methods of construction using these materials. Student fee charged.
Lec Hrs=41 Lab Hrs=116 Oth Hrs=0 Fees=96.43

AMT1140 AIRCRAFT WELDING (1)
Provides experience in detecting, identifying, removal, and treatment of the various types of corrosion found on ferrous and nonferrous metals. The course deals with the types of cleaners and methods of cleaning aircraft and aircraft components.
Lec Hrs=12 Lab Hrs=26 Oth Hrs=0 Fees=46.43
A theory and practice of welding methods used in aircraft construction and repair is thoroughly covered with emphasis on gas welding and advanced work in metal arc welding. Lab fee is required.
Lec Hrs=15 Lab Hrs=25 Oth Hrs=0 Fees=71.43

AMT1155 ASSEMBLY AND RIGGING (2)
Students will explain and compare aircraft design features in subsonic, transonic, and supersonic aircraft. They will be able to assemble and rig various aircraft control systems, analyzing and correcting faulty flight characteristics.
Lec Hrs=20 Lab Hrs=45 Oth Hrs=0 Fees=0.00

AMT1160 AIRFRAME INSPECTION (1)
Students will acquire the knowledge and skills needed to perform a 100 hour inspection of an aircraft. The student will demonstrate knowledge of FARs by checking appropriate A.D.’s classifying repairs, and pinpointing specific service problems. The student will complete the required maintenance forms, records, and inspection reports required by Federal Air Regulations.
Lec Hrs=5 Lab Hrs=15 Oth Hrs=0 Fees=46.43

AMT1200 LANDING GEAR SYSTEMS (2)
Student will receive training in the proper methods of inspection, servicing and repair of landing gear retraction systems, shock struts, brakes, wheels, tires and steering systems. Rigging of various types of retractable landing gear systems will be covered in detail.
Lec Hrs=35 Lab Hrs=50 Oth Hrs=0 Fees=71.43

AMT1210 HYDRAULIC AND PNEUMATICS SYSTEMS (2)
The student will study the theory of operation, maintenance requirements, and adjustments of various hydraulic components and systems. The course will provide the student with the knowledge of pneumatics as used in aircraft operation. The course covers fluid flow, identifies the various actuating units, types of seals, pumps, and differences between hydraulic and pneumatic systems.
Lec Hrs=35 Lab Hrs=40 Oth Hrs=0 Fees=71.43

AMT1220 CABIN ATMOSPHERE CONTROL SYSTEMS (1)
This unit covers the various systems used to condition air and cabin pressurization as well as practical experience in inspecting, checking, troubleshooting, and servicing the oxygen system. Student fee charged.
Lec Hrs=20 Lab Hrs=30 Oth Hrs=0 Fees=61.43

AMT1230 AIRCRAFT INSTRUMENTS SYSTEM (1)
A basic familiarization of aircraft instrument and their function to include removal, installation, and the installed testing of such instruments.
Lec Hrs=15 Lab Hrs=10 Oth Hrs=0 Fees=61.43

AMT1240 COMMUNICATIONS AND NAVIGATION SYSTEMS (1)
This course introduces the student with basic auto pilot operation and familiarizes him with the installation requirements and use of the various communication and navigation systems.
Lec Hrs=25 Lab Hrs=5 Oth Hrs=0 Fees=61.43

AMT1250 AIRCRAFT FUEL SYSTEMS (1)
The student is provided with the knowledge and skills needed to maintain fuel systems and fuel system components. He/she will be able to inspect, check, maintain, and repair aircraft fuel system components, fuel dump systems, fuel management and transfer systems, and perform refueling operations.
Lec Hrs=17 Lab Hrs=23 Oth Hrs=0 Fees=61.43

AMT1260 AIRCRAFT ELECTRICAL SYSTEMS (3)
The types and characteristics of aircraft electrical circuits and components are compared and evaluated. Advanced electrical systems as used in corporate and airline aircraft are studied. The course includes troubleshooting and repairs of AC and DC electrical systems and equipment.
Lec Hrs=45 Lab Hrs=55 Oth Hrs=0 Fees=71.43

AMT1270 POSITION AND WARNING SYSTEMS (1)
This course presents the student with the inspection, servicing and maintaining of position and warning systems. Included in this area are navigation lights, beacons, and lights, indicating the position of various aircraft components.
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=61.43

AMT1285 ICE, RAIN, & FIRE PROTECTION (1)
Introduces the student to the basics of ice and rain control as it relates to aircraft surfaces, propellers, windshields, and other components. Methods of ice prevention and elimination are taught. Student is provided with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of airframe fire detecting and extinguishing systems. Student fee charged.
Lec Hrs=10 Lab Hrs=20 Oth Hrs=0 Fees=61.43

AMT2300 RECIPROCATING ENGINES (5)
The course covers theory and fundamental requirements for aircraft engines; basic parts of internal combustion engines, 2 stroke and 4 stroke cycle, power measurements and calculations conversion of heat energy into mechanical energy, horsepower, piston displacement, compression ratio, types of horsepower, crankcase assembly, reduction gearing, crankshafts and rod assemblies, cylinder and piston assemblies, and bearings used in reciprocating engines.
Lec Hrs=45 Lab Hrs=107 Oth Hrs=0 Fees=171.43

AMT2312 TURBINE ENGINES (4)
A thorough study of the theory of operation of turbine engines and the function of the related engine components such as compressors, fuel controls, fuel pumps, governors, turbines, etc. Course encounters disassembly, inspection, minimal repairs reassembly test run, and final adjustment.
Lec Hrs=55 Lab Hrs=55 Oth Hrs=0 Fees=96.43

AMT2320 ENGINE INSPECTION (1)
A course study which details the correct methods of engine removal and installation, inspection and run up testing, including the final adjustments according to FAA regulations and manufacturer’s recommendations.
Lec Hrs=10 Lab Hrs=22 Oth Hrs=0 Fees=61.43

AMT2400 ENGINE INSTRUMENT SYSTEMS (1)
Students will have knowledge of operation, installation, making and interpretation of powerplant instruments powered by or actuated by non-electrical means. They will be able to install, adjust, and calibrate these instruments in accordance with FAA and manufacturer’s recommendations.

This course will provide experience in inspection checking, servicing, troubleshooting, and repair of engine instrument systems that are electrical in nature.

Lec Hrs=12 Lab Hrs=19 Oth Hrs=0 Fees=46.43

AMT2410 ENGINE FIRE PROTECTION SYSTEMS
To provide the student with the knowledge and skills needed in the operation, inspection, checking, troubleshooting, and repair of engine fire detecting and extinguishing systems.

Lec Hrs=5 Lab Hrs=10 Oth Hrs=0 Fees=61.43

AMT2420 ENGINE ELECTRICAL SYSTEMS & APUS
This course provides knowledge and skills necessary to perform electrical repairs, installations, adjustments, and service. The subject area includes alternators, generators, voltage regulation, and paralleling of generators. The student will be introduced to the operational principles of auxiliary power units. Student fee charged.

Lec Hrs=31 Lab Hrs=38 Oth Hrs=0 Fees=96.43

AMT2435 LUBRICATION SYSTEMS
Provides a comprehensive knowledge of the purpose and function of lubricants and lubrication systems for powerplants. Gives experience in identifying and selecting lubricants, as well as, inspecting, checking, servicing and troubleshooting repair of the system and components.

Lec Hrs=16 Lab Hrs=26 Oth Hrs=0 Fees=96.43

AMT2440 IGNITION SYSTEMS
Students will have knowledge of the operation, repair, inspection, and service of reciprocating and jet power plant ignition systems. They will be able to overhaul and troubleshoot the various components of each system.

Lec Hrs=37 Lab Hrs=47 Oth Hrs=0 Fees=96.43

AMT2450 ENGINE FUEL SYSTEMS
Student is provided with knowledge and skills needed to maintain fuel system components. Student will be able to inspect, maintain check, and repair engine fuel system components.

Lec Hrs=8 Lab Hrs=12 Oth Hrs=0 Fees=61.43

AMT2451 FUEL METERING SYSTEMS
Provides the student with the necessary information and practice necessary to inspect, check, service, troubleshoot, and repair reciprocating and turbine fuel metering systems. The theory and practical application of carburetion, fuel injection systems, and water injection systems are also learned. Fuel pumps, filters, and strainers are discussed and practical experience is gained in these areas.

Lec Hrs=26 Lab Hrs=36 Oth Hrs=0 Fees=96.43

AMT2460 INDUCTION SYSTEMS
Gives student the knowledge and experience needed to service and maintain induction systems, superchargers, and exhaust systems. Material covered includes controls, indicators, theory of operation and inspection criteria.

Lec Hrs=11 Lab Hrs=14 Oth Hrs=0 Fees=40.00

AMT2475 ENGINE COOLING & EXHAUST SYSTEMS
This course provides the student with an understanding of the need for the various types of engine cooling systems. Gives experience in the inspection, checking, servicing, troubleshooting, and repairing of engine cooling systems. This course will also enable the student to comprehend the function of exhaust systems including turbo charging and thrust reversers. The student will gain experience in inspection, checking, troubleshooting, and repairing various types of exhaust systems. Student fee charged.

Lec Hrs=11 Lab Hrs=15 Oth Hrs=0 Fees=61.43

AMT2490 PROPELLERS AND UNDUCTED FANS
This unit of instruction is designed to cover aircraft engine and turbo prop installations. Areas dealt with are: propeller fundamentals and terminology, synchronizing and ice control systems, identification and selection of propeller lubricants, balancing of propellers, propeller control systems, propeller governing systems, and installation, troubleshooting and removal of propellers. The theory of unducted fans is presented. Student fee charged.

Lec Hrs=41 Lab Hrs=48 Oth Hrs=0 Fees=96.43

ANT2000 INTRODUCTION TO ANTHROPOLOGY
An introductory study of the biological evolution and cultural development of human customs, social organization, and institutions. The student is introduced to the major fields of study undertaken by anthropologists. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ANT2140 INTRO TO ARCHAEOLOGY
The study of past cultures and the ongoing record of human history. This course reviews the major techniques and theories used to interpret culture change through time. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ANT2211 INTRODUCTION TO WORLD ETHNOLOGY PEOPLES OF THE WORLD
A survey of cultures on differing levels of development, focusing upon subsistence, social organization, religion, art, and culture change. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ANT2381 CULTURE AND SOCIETY OF SPAIN
Spanish culture and society includes a study of Spanish life and character as it manifests itself in history, regional personality, celebrations, music, legendary figures, art and architecture. Special emphasis will be given to the southern part of Spain, Andalusia’s, which conserves today the diverse cultural heritage of Europe, Africa, and the Orient (Near East). Students must earn a minimum grade of C to meet the
ANT2825 ANTHROPOLOGY FIELD SCHOOL  (3)
This lab course is designed to supplement various topics relative to physical and cultural Anthropology as well as Archaeology. Study is limited to field projects. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ANT2905 INDEPENDENT STUDY ANTHROPOLOGY  (3)
A directed study course available to both majors and non-majors who wish to investigate a particular problem related to the field of Anthropology. The student will make application for the course to the Head of the Behavioral Sciences Department via an Instructor with whom the student wants to work. Prerequisite: Instructor's approval. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARC1056C DIGITAL MEDIA  (2)
This course is designed to provide a survey of current computer aided design software relate to architecture and building construction. Lab work concentrates on a variety of computer applications applicable to the design process. Students will learn to apply virtual building technology to design, production, and collaboration and information analysis of a project. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=43.00

ARC1126C ARCHITECTURAL DRAWING  (4)
An introduction to principles, methods, and applications of architectural drawing. Basic drafting tools will be used to learn orthographic projection to draw multi-view drawings including architectural design floor plans, elevations and sections, single-view drawings including paraline axonometric drawings and perspective drawings including one-and two-point. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=48 Oth Hrs=0 Fees=37.00

ARC1301C ARCHITECTURAL DESIGN I  (4)
This course covers basic two and three-dimensional design fundamentals, architectonic principles and architectural design skills. Techniques of model making, are learned through explorations in defining and understanding architectural space.
Pre or Corequisite: ARC1126C
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=37.00

ARC1302C ARCHITECTURAL DESIGN II  (4)
This course furthers the study of three-dimensional design fundamentals, architectural space and architectural principles through the application of more advanced model making techniques, orthographic drawing and one and two point perspectives. The architectural design process is studied through the analysis and resolution of basic building programs and basic natural and man-made environmental factors.
Prerequisite: ARC1301C
Pre or Co-requisite: ARC2201
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=37.00

ARC1701 SURVEY OF ARCHITECTURAL HISTORY  (3)
A general survey of social, political, and cultural factors which have generated architecture from prehistoric times through the Fifteenth century. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARC2201 THEORY OF ARCHITECTURE  (3)
This course provides an understanding of architectonic elements, principles and aesthetics in architecture. It analyzes their application in contemporary and historical architecture and relates their application to architecture design studio solutions. The course also covers the works and philosophies of contemporary architects.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARC2303C ARCHITECTURAL DESIGN III  (4)
This course emphasizes the analysis and resolution of the natural and man-made environmental context as a generator of architectural design ideas. The analysis of architectural building programs and architectonic principles are applied to further define the organization, form, circulation and function of architectural space in buildings.
Prerequisite: ARC1302C ARC2201
Pre or Co-requisite: ARC2461
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=96 Oth Hrs=0 Fees=37.00

ARC2304C ARCHITECTURAL DESIGN IV  (4)
This course covers the development of architectonic conceptual ideas from program requirements and contextual factors as generators of architectural design. Architectonic principles of enclosure, massing, articulation of form, proportions, geometry, scale and structures are applied in the development of imagery for building design. A portfolio is created from each student's best work for the purpose of transfer admission to a university program.
Prerequisite: ARC2303C
Pre or Co-requisite: ARC1701
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=96 Oth Hrs=0 Fees=37.00

ARC2461 MATERIALS AND METHODS OF CONSTRUCTION  (4)
Introduction to materials and methods of construction with emphasis on wood, masonry, concrete, and steel. The evaluation of materials, functional applications and code requirements are stressed. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARC2580 STRUCTURES  (4)
Basic study in the principles and evaluations of structures as applied to architecture. Major topics of study include statics, stress, and the characteristics of beam and column behavior. This course will enable the student to develop a structural sense in creating architectural solutions. Prerequisite: MAC1105

This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2000 ART APPRECIATION (3)
Art Appreciation is a course for non-art majors that introduces the foundations of art, including style, form, media, meaning, and history. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2050 WORLD ART: PREHISTORY TO GOTHIC (3)
Prehistory to Gothic is a chronological survey and analysis of art from prehistory to the 1400s, placing major works in a historical and stylistic context and emphasizing world art. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2051 WORLD ART: RENAISSANCE TO MODERN (3)
A chronological survey and analysis of world art from Renaissance to Modern, placing major works in a historical and stylistic context and emphasizing European and Modern art. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2351 SPANISH ART HISTORY (3)
Spanish Art History includes the study of outstanding examples of architecture, painting and sculpture, emphasizing the early Roman and Moorish contributions, as well as the great Spanish painters of the Renaissance and the 19th and 20th Centuries. Included in this course are cultural visits to museums, galleries and monuments in Seville. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2402 MODERN ART (3)
A chronological survey and analysis of mid-19th century to the present, placing major works in a social, historical and stylistic context. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ARH2660 LATIN AMERICAN ART (3)
Chronological survey and analysis of Latin American art from mid-19th century to the present, placing major works in a social, historical and stylistic context. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ART1201C 2-D DESIGN (3)
Two-dimensional study of form, principles of organization, and the elements of design fundamental for creative work in 2-D visual arts. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=4.00

ART1203C 3-D DESIGN (3)
Three-dimensional study of form, principles of organization and elements of design, fundamental for creative work in 3-D visual arts. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=25.00

ART1300C DRAWING I (3)
Still life and landscape composition utilizing wet and dry drawing media. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=4.00

ART1301C DRAWING II (3)
An extension of the content of Drawing I with increased concentration upon analytical description, pictorial composition, and drawing as a means of visual communication of ideas. Prerequisite: ART1300C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART1600C COMPUTER ART (3)
A basic course in how the computer can be adapted and used in the visual arts. Creative uses of the computer and assorted hardware and software will introduce the student to fine art and applied art applications. Knowledge of programming is not required. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=20.00

ART2205C COLOR THEORY (3)
A basic course in the exploration of color theories, color systems, and color relativity in regard to optical sensation, lighting variation and psychological impact. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2330C LIFE DRAWING (3)
Study of human and animal forms utilizing various wet and dry media. Prerequisite: ART1300C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=31.00

ART2400C BEGINNING PRINTMAKING (3)
A study of the processes and techniques in intaglio, polymer light-sensitive and relief printmaking. Prerequisite: ART1201C, ART1300C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=25.00

ART2500C PAINTING I (3)
An introduction to creative techniques and composition applied to oil painting and acrylic media. Prerequisite: ART1201C, ART1300C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2501C PAINTING II (3)
A creative exploration of oil, acrylic techniques and/or water media with an emphasis on composition. Prerequisite: ART2500C
ART250C WATERCOLOR (3)
A creative exploration of watercolor techniques and media with an emphasis on composition. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2623C 3-D COMPUTER MODELING FOR ANIMATION (3)
This course is an introductory level course in 3-D animation. Students create complex animations which are carefully planned through storyboarding techniques. Students will complete 3-D animation projects and follow the 3-D animation process, practicing and applying various features of the 3-D animation software package.
Prerequisite: ART1300C
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=0.00

ART2710C SCULPTURE (3)
A three-dimensional study of form and concept utilizing physical material to occupy real space either free standing or bas-relief. The principles of organization and the element of design fundamentals are carried over and expand from 3-D design.
Prerequisite: Instructor’s permission.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=25.00

ART2750C CERAMICS I (3)
Study of basic ceramic shaping techniques, glazing, decorating, and firing. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=35.00

ART2751C CERAMICS II (3)
A study of advanced techniques in ceramics synthesizing basic skills with more advanced concepts and techniques of forming clay, surface decoration, glazing and firing.
Prerequisites: ART2750C or instructor’s approval
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=35.00

ART2752C CERAMICS: THROWING ON THE POTTERS WHEEL (3)
A fine arts study of advanced techniques in ceramics emphasizing concepts and techniques of forming clay on the wheel, surface decoration, glazing and firing.
Prerequisite: ART2750C
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=35.00

ART2754C CERAMICS: HAND-BUILDING (3)
Fine arts ceramics course to develop hand-building through various projects which emphasize technique, creativity, and problem-solving. Includes advanced concepts and techniques of forming clay, surface decoration, glazing and firing.
Prerequisite: ART2750C
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=35.00

ART2905 INDEPENDENT STUDY (3)
A course designed to establish a framework for future self-learning. Students will shape the course to fit their needs by planning activities with a faculty advisor. Exceptions to prerequisite may be considered by the Art Department Head.
This course can be used for the AA degree.
Prerequisite: Instructor’s permission or ART1201C, ART1202C, ART1300C
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2906 INDEPENDENT STUDY: CERAMICS (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to the ceramics process. This course can be used for the AA degree.
Prerequisite: Instructor permission or ART2750C ART2751C
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=35.00

ART2907 INDEPENDENT STUDY: DRAWING (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to the drawing process. Instructor’s approval and
Prerequisite: ART1300C ART2330C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2908 INDEPENDENT STUDY: SCULPTURE (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to the sculpture process. This course can be used for the AA degree.
Prerequisite: Instructor permission or ART1201C, ART1202C, ART1300C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=25.00

ART2909 INDEPENDENT STUDY: PAINTING (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to the painting process. This course can be used for the AA degree.
Prerequisite: ART2500C ART2501C
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

ART2931C ART SPECIAL TOPICS: (SPECIFY MEDIUM) (3)
A studio course centered on a specific medium of art and topics of current interest. Media, topics or focus may vary from semester to semester. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. Instructor’s permission required.
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=0.00

ART2932C SPECIAL TOPIC: CERAMICS (3)
A ceramics studio course centered around topics of current interest or special interest to students. Topics or focus may vary from semester to semester. Exception to prerequisites will be considered by the Art Department Head. Special
topics, credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution.

Prerequisite: Instructor permission or Prerequisite: ART2750C ART2751C

This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=35.00

ART2950 SEMINAR IN ART (3)
A course designed for students who wish to combine the study of Art with travel in a foreign country. Variable content depends on areas visited. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC1010 HISTORY OF AVIATION (3)
A survey of aviation from its beginning with early myths, through gliders, balloon flights and powered flight to the present jet age. Includes effects of wars on the development of civil and military aircraft and discusses significant personnel flights and aircraft in tracing the advancement of general, commercial, and military aircraft. The major emphasis of the course will be directed towards the development of aviation in the United States. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC1100 NAVIGATIONAL SCIENCE I (3)
This course, together with ATT1100, provides the basic aeronautical knowledge for the professional pilot and aviation operation programs. The two courses must be taken concurrently unless the student’s major is Airport Operations Management or Aviation Maintenance Management, in which only ATT1100 is required. The areas of study include airport operations, airspace, flight information publications, basic air navigation including pertinent regulations, preflight planning, cross country navigation, and radio navigation. Successful completion of ATT1100 and ASC1100 will prepare students for the FAA Private Pilot (airplane) Computerized Knowledge Exam.

Prerequisite: College Placement Testing (CPT) scores must place student into college-level courses for English, reading and math; or have instructor's permission. Co-requisite: ATT1100

This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC1210 AVIATION WEATHER (3)
A study of the basic concepts of meteorology, temperature pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog analysis and use of weather data; interpretation of the U.S. Weather Bureau maps, reports and forecasts. This course can be used for AA degree.

Prerequisite: private pilot's license; instructor's permission; or Prerequisite: ASC1100,
ATT1100. Co-requisite: ASC1210 ATT2120

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC1550 AERODYNAMICS (3)
An analysis of the physical laws and aerodynamic principles which govern the flight and performance of aircraft stability and control, weight and balance, and aircraft instruments affecting flight operational considerations of controllable pitch propellers, retractable gear, weather, and precision maneuvers. Prerequisite: private pilot’s license or instructor's permission or Prerequisite: ASC1100 ATT1100

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC1610 AIRCRAFT ENGINES, STRUCTURES, AND SYSTEMS (3)
Aircraft engine types and theory of operation theory, materials and construction methods of aircraft structures operations of hydraulic, electrical, fuel, pressurization, and anti-icing, heating and instrument systems, including sources of power for their operation. Prerequisite: private pilot's license or instructor's permission or Prerequisite: ASC1100 ATT1100

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC2110 NAVIGATION SCIENCE II (3)
Methods and procedures for the solution of advanced piloting and dead reckoning problems. Functioning, capabilities, and limitations of radio navigation systems. Prerequisite: private pilot's license or instructor's permission or Prerequisite: ASC1100, ATT1100

Co-requisite: ASC1210, ATT2120

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC2200 AVIATION LAW AND REGULATIONS (3)
An introduction and analysis of the regulations and laws governing airport and airline operations, incorporating aviation safety. Topics of discussion include the major regulations to include: Federal Aviation Regulations (FARS) 77, 108, 121, 129, 135, 139, 150, 191, and NTSB 830. These topics will include navigable airspace, airport noise and the applicable Advisory Circulars (AC), that explain compliance. Additionally, these topics of discussion will include an overview of how the regulations are governed and administered, compliance with overview of how the regulations are governed and administered, compliance with regulations, non-compliance, and management of government regulations.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC2472 HUMAN FACTORS IN FLIGHT AND AIR TRAFFIC CONTROL (3)
This course discusses the human factors involved with flight and those affecting air traffic controllers. Students will learn significant aero-medical factors common to the aviation environment and the decision making process. Students will apply knowledge gained through the examination of NTSB accident reports outlining the causes and describing ways an accident could have been prevented.

Prerequisite: ASC1100, ATT1100, ATT1810, ATT2820

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC2870 AVIATION SAFETY (3)
The primary goal of this course is to provide aspiring aviation professionals with a comprehensive understanding and enhanced awareness of aviation safety. Class will participate in analyzing the probable cause of selected aviation accidents, review detailed analyses of accidents related to topics of human factors, runway incursions, weather, mid-air collisions and mechanical and maintenance issues. Federal agencies which regulate aviation with
emphasize on those concerned with safety will also be studied.
Prerequisite: ASC1100, ATT1100
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASC2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ASLI140 AMERICAN SIGN LANGUAGE I (4)
Students will acquire the fundamental linguistic principles of American Sign Language and vocabulary totaling approximately 500 concepts, both expressively and receptively. Cultural literacy will be enhanced related to deafness and Deaf culture through reading, writing, and the social environment of the Deaf Community. A variety of classroom literacy activities and exercises, supplemented by laboratory and/or multi-media presentations, will be utilized to develop communicative competence and an appreciation for cultural diversity. (This course is designed for students who have never taken a course in American Sign Language. Students should check individual university program requirements for transferability.)
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=5.00

ASLI150 AMERICAN SIGN LANGUAGE II (4)
Students will acquire intermediate linguistic principles of American Sign Language and vocabulary totaling approximately 500 new concepts, both expressively and receptively. Cultural literacy will be enhanced related to deafness and Deaf culture through reading, writing, and the social environment of the Deaf Community. A variety of classroom literacy activities and exercises, supplemented by laboratory and/or multi-media presentations, will be utilized to develop communicative competence and an appreciation for cultural diversity. (This course is designed for students who have completed ASL1140 as content builds upon the foundation laid in ASL I. Students should check individual university program requirements for transferability.)
Prerequisite: ASL1140
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=5.00

ASLI2160 AMERICAN SIGN LANGUAGE III (4)
Upon completion of this course, students will have acquired American Sign Language vocabulary totaling approximately 500 concepts and intermediate to advanced level linguistic principles of ASL, including finger-spelling. Use of the signing space to set up person, objects, place and time will be stressed. Information on the cultural and communication aspects of ASL will also be covered. Content builds upon the foundation established in ASL1140 and ASL1150. After completing the three courses, students should have a receptive and expressive sign vocabulary of approximately 1500 concepts. Students are strongly advised to check with the college or university of their choice for acceptance of these credits to fulfill their entrance and/or exit language requirements.
Prerequisite: ASL1150
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=5.00

AST1002 HORIZONS IN ASTRONOMY (3)
An introductory course that outlines the origin, characteristics, and evolution of the solar system, stars, and galaxies and engages the historical milestones in astronomy from the ancient astronomers to the modern observatories. Students are expected to evaluate current and expected future trends in astronomical research and theories using written compositions and analysis in algebra.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AST1003 ASTRONOMY OF THE SOLAR SYSTEM (3)
An astronomy course outlining the knowledge gained from space probes of the Sun, the Moon, Earth, and the planets and evaluating the Solar System formation theories. The students will use writing compositions, observations, and mathematical analysis to analyze the data obtained by observing these bodies. Prerequisite: MAT0028. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AST1004 ASTRONOMY OF STARS AND GALAXIES (3)
AST 1004 is an astronomy course outlining the important astronomical entities (e.g., stars, gas, dust, galaxies, quasars) beyond the solar system and their evolution in terms of the quantum mechanical effects in the macro world. The students will use writing compositions, observations, and mathematical analysis to analyze these concepts. Prerequisite: MAT0028. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

AST1022L ASTRONOMY LABORATORY (1)
AST 1022L is a laboratory which allows students to able to collect and analyze data in a variety of experiments covering topics covered in its companion courses; AST 1002, AST 1003, or AST 1004. Students will create experiment reports and conduct telescopic observations. This course can be used for the AA degree.
Pre or Corequisite: AST1003
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=26.00

AST1037 SCIENTIFIC SEARCH FOR LIFE IN THE UNIVERSE (3)
This interdisciplinary course examines the nature and history of life on earth, possible life-favoring environments within the solar system and in the detecting life in the universe at large. Topics of discussion include the evolution and biochemistry of terrestrial life, the formation of organic compounds in the solar system and other extraterrestrial environments, physical constraints, equipment, and strategies for detecting intelligent life in the universe. This course can be used for the AA degree.
Prerequisite: MAT0028
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
AST2080 PLANETARIUM EDUCATION (3)
Course for teachers and students of Education; study of the use of the Planetarium in Education; acquaints students with basic sky knowledge. Familiarizes students with various planetarium equipment and its operation. Various audio-visual devices will be employed. Students will design and write their own educational materials pertaining to audio-visual concepts in Planetarium education. Instructor's approval. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ATF1100 PRIMARY FLIGHT (3)
This course provides the flight training and experience required by the Federal Aviation Regulations (FAA) for a Private Pilot Certificate. Student must obtain FAA Private Pilot Certificate in order to receive credit for the course. Flight training fees are paid directly to the College in advance. Prerequisite: College Placement Testing (CPT) scores must place student into college-level courses for English, reading and math; or have instructor's permission.
Co-requisite: ASC1100, ATT1100
Lec Hrs=10 Lab Hrs=80 Oth Hrs=0 Fees=0.00

ATF2200 COMMERCIAL FLIGHT I (3)
This course continues the training and experience begun in primary flight. Together with ATF2210 and ATF2300, it provides the aeronautical experience required to qualify for the FAA Commercial Pilot Certificate with instrument rating under Federal Aviation Regulations. Flight training fees are paid directly to the College in advance. Prerequisite: private pilot's license or instructor's permission or Prerequisite: ATF1100
Corequisite: ASC1210, ASC2110, ATT2120
Lec Hrs=10 Lab Hrs=80 Oth Hrs=0 Fees=0.00

ATF2210 COMMERCIAL FLIGHT II (3)
This course continues the training and experience of Commercial Flight I. Together with ATF2200 and ATF2300, it provides the aeronautical experience required to qualify for the FAA Commercial Pilot Certificate with instrument rating under Federal Aviation Regulations part. During this course, the student completes coursework to obtain the instrument rating and begins commercial pilot training. Flight training fees are paid directly to the College in advance. Prerequisite: Instructor's approval or Prerequisite: ATF2200
Corequisite: ATT2110
Lec Hrs=10 Lab Hrs=80 Oth Hrs=0 Fees=0.00

ATF2300 COMMERCIAL FLIGHT III (3)
This is the final of the series of courses designed to provide the aeronautical experience for a FAA Commercial Pilot Certificate with instrument rating under Federal Aviation Regulations. During this course the student achieves qualification in complex air-craft. In order to receive credit for this course, the student must have earned a FAA Commercial Pilot Certificate. Flight training fees are paid directly to the College in advance. Prerequisite: Instructor's approval or Prerequisite: ATF2210
Lec Hrs=10 Lab Hrs=80 Oth Hrs=0 Fees=0.00

ATF2400 MULTI-ENGINE TRANSITION (1)
This course provides the flight training and experience required to obtain an FAA multi-engine rating. In order to receive credit for this course, the student must have earned a FAA multi-engine rating. Flight training fees are paid directly to the College in advance. Prerequisite: Private Pilot Certificate with Instrument Rating or Instructor's Approval
Corequisite: ATF2630
Lec Hrs=5 Lab Hrs=20 Oth Hrs=0 Fees=0.00

ATF2500 FLIGHT INSTRUCTOR TRAINING (2)
This course provides the flight and ground instruction to train a commercial pilot to be a flight instructor. Course consists of the number of dual and solo flying hours and oral instruction required in each case to qualify the individual for a FAA flight instructor certificate. In order to receive credit for this course, the student must have earned a FAA flight instructor certificate. Training fees are paid directly to the College in advance. Prerequisite: Commercial Pilot Certificate with Instrument Rating
Lec Hrs=15 Lab Hrs=30 Oth Hrs=0 Fees=0.00

ATF2600 FLIGHT SIMULATOR TRAINING (1)
This course provides a total of 15 hours of training in one of the Emil Buehler Flight Lab flight training devices at South Campus. This course may be taken as an elective in any of the aviation programs. Material covered will be tailored to the individual depending upon his/ her piloting background. This course may be repeated for a maximum of 3 semester hours to meet a 3 semester hour elective requirement. Student fee charged. Prerequisite: instructor's permission or Prerequisite: ASC1100, ATF1100, ATT1100
Co-requisite: ATF2200
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=75.00

ATF2630 BASIC INSTRUMENT SIMULATOR (1)
This course provides a total of 15 hours of training in one of the Emil Buehler Flight Lab multi-engine flight training devices at South Campus. The course consists of 5 hours of lecture and 10 hours in the flight training device. This course may be taken as an elective in any of the aviation programs. This course may be repeated for a maximum of 3 semester hours to meet a 3 semester hour elective requirement. Student fee charged. Prerequisite: instructor's permission or Prerequisite: ASC1100, ATF1100, ATT1100
Corequisite: ATF2400
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

ATT1100 AERONAUTICAL SCIENCE (3)
An introduction to the theory of flight, this course is required for all aviation programs. It includes elementary aerodynamics, the major components of airplanes and their functions, the pertinent Federal Aviation Administration (FAA) regulations and basic airspace, aircraft performance and basic navigation, an introduction to meteorology and weather services and human factors. Successful completion of ATT100 and ASC1100 will prepare students for the FAA Private Pilot (airplane) Computerized Knowledge Exam. Professional Pilot Technology and Aviation Operations program majors must take this course concurrently with ASC1100.
ATT1810 ENVIRONMENT OF THE AIR TRAFFIC CONTROLLER (3)
This course provides an understanding of the Air Traffic Controller's mission and working environment and presents a candid view of the Air Traffic Controller's language, tools and profession.
Prerequisite: ASC1100, ATT1100, ATT1810, ATT2820
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ATT2110 COMMERCIAL FLIGHT THEORY (3)
Provides the aeronautical information needed to satisfactorily complete the FAA Commercial Pilot Knowledge Exam. Subject matter is tailored to the needs of the advanced pilot. It includes aerodynamics, airplane performance and systems, navigation, physiological factors, Federal Aviation Regulations and weather. It is recommended to complete the instrument rating before taking this course. Prerequisite: FAA Private Pilot Certificate or instructor's permission or
Prerequisite: ASC1100, ATT1100
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ATT2120 INSTRUMENT FLIGHT THEORY (3)
Prepares student for FAA Instrument Rating (Airplane) Exam. Physiological factors involved with instrument flying, the functioning of basic flight instruments and their use in controlling aircraft under instrument conditions, electronic aids and their use, communications, the airways system, IFR charts, regulations and procedures as related to instrument flight. Prerequisite: private pilot's license or instructor's permission or
Prerequisite: ASC1100, ATT1100
Co-requisite: ASC2120 ASC2110
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ATT2820 INTRODUCTION TO AIR TRAFFIC CONTROL (3)
This course covers fundamental topics such as history and an explanation of past decisions affecting current air traffic control systems, navigation, procedures and phraseology, separation of aircraft in the ATC system, an in-depth look at the future of air traffic control, and employment opportunities for air traffic controllers.
Co-requisite: ASC1100, ATT1100, ATT1810
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ATT2821C ATC RADAR PROCEDURES WITH LAB (4)
This course covers fundamental requirements to work as a radar controller and builds on the knowledge obtained in prerequisite courses ATT1100, ASC1100, ATT1810, ATT2820, ATT2825C, ATT2821C. Topics such as radar rules and applications required by FAA J07110.65. Chapters 4, 8, and 6 are covered in this course. This course will be adapted to mirror a radar position in operation at Miami TRACON. In doing so, this course will teach the student the basic requirements needed to work as a radar controller in a terminal facility. Topics taught will include radar systems, radar identification, radar separation, vectoring, phraseology, and issuing approach clearances. The lab portion will mirror the Fort Lauderdale Executive Arrival/Departure Radar position.
Prerequisite: ASC1100, ATT1100, ATT1810, ATT2820, ATT2822C
Lec Hrs=48 Lab Hrs=24 Oth Hrs=0 Fees=140.00

ATT2822C VFR TOWER OPERATIONS WITH LAB (4)
This course covers the J07110.65 Air Traffic Control manual Chapter 3. Chapter covers fundamental rules and procedures required in a VFR tower for the safe and orderly flow of aircraft operating in a VFR or IFR environment. This course teaches the requirements needed in a terminal facility that utilizes air/ground communications, visual signaling, and other devices to provide ATC services to aircraft operating in the vicinity of an airport or a movement area. The lab portion will mirror the Fort Lauderdale Executive Airport or Tamiami-Kendall Executive Airport. The student will be required to demonstrate practical application of the rules and procedures in use at this airport.
Prerequisite: ASC1100, ATT1100, ATT1810, ATT2820
Lec Hrs=48 Lab Hrs=24 Oth Hrs=0 Fees=210.00

ATT2824C ATC ENROUTE OPERATIONS WITH LAB (4)
This course covers the J07110.65 Air Traffic Control Manual Chapters 5, 6, 7, 8, 9, 10, 11, 12, and 13, J07350.7 Location Identifiers, IFR Enroute Low and High Altitude Charts. These orders cover the fundamental rules and procedures required in the Enroute environment commonly referred to as the CENTER. This course will teach the requirements needed to an Enroute facility that utilizes air/ground communications and other devices to provide ATC services to aircraft operating along the Federal Airways and Jet Route Systems. The lab portion will mirror a sector in operation at Miami Center. The student will be required to demonstrate practical application of the rules and procedure in use at this center sector.
Prerequisite: ASC1100, ATT1100, ATT1810, ATT2820
Lec Hrs=48 Lab Hrs=24 Oth Hrs=0 Fees=140.00

ATT2890 ATC CAPSTONE PROJECT (1)
This course covers the practical application of J07110.65 Air Traffic Control Manual. The course will evaluate what the student has learned and retained throughout the CTI program. The student will be required to successfully complete a 100 question exam covering the CTI prerequisite courses and demonstrate the practical applications in Center Radar Simulation, Terminal Radar Simulation, and Tower Simulation. Students successfully completing the exam and practical will take the Certified Tower Operator's Exam administered by an FAA examiner the last week of class.
Prerequisite: ASC1100, ASC1210, ASC1610, ASC2472, ATT1100, ATT1810, ATT2820, ATT2821C, ATT2822C
Lec Hrs=5 Lab Hrs=16 Oth Hrs=0 Fees=0.00

AVM1440 AIRPORT AND AIRLINE SECURITY (3)
An introduction and analysis of the regulations and laws governing airport and airline security, including an in-depth look at Federal Aviation Regulations 49 CFR 1544, FAR Part 121, 129, and 49 CFR 1520. Topics of discussion include; a historical perspective and events that have led to the evolution of aviation security, preventive measures, and current trends in security. An introduction to terrorist activities, motives, weapons of mass destruction, and countermeasures at threats to aviation.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM1940 AIRPORT OPERATIONS INTERNSHIP I**

(3)

Practical applicable of acquired knowledge at a certificated airport. Student exposed to airside related environment including airfield inspections, security inspections and enforcement, air traffic control system, navigational aids, airspace inspections & familiarizations, wildlife issues, environmental impacts. Landside issues such as parking management, ground transportation systems, operational contract administration, revenue control systems, equipment monitoring, and bus operations. Terminal building operations including, physical building inspections, passenger services, passenger flow characteristics, tenant and contractual lease requirements, safety and security of passenger terminals. The student is introduced to airport maintenance programs and systems as well as general aviation environment. Requires special application and criminal background check.

Prerequisite: instructor's permission or
Prerequisite: AVM1440, AVM210, AVM2410
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM2301 GENERAL AVIATION MARKETING AND MANAGEMENT**

(3)

This course is designed to provide an overview of the general aviation industry including its history and important role within the air transportation sector of the economy. The varied uses of general aviation aircraft and the management and marketing role of the fixed base operator are thoroughly explored. Included are the basic marketing concepts and procedures involved in the sale of general aviation aircraft and components to private industry and government.

Particular emphasis will be placed on the management of corporate/business aircraft and commuter airlines.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM2410 AIRPORT MANAGEMENT**

(3)

Provides a comprehensive examination of the major functions of airport management and the concepts underlying airport planning and construction. The controlling factors in the development of an airport, such as size and forecasting volumes, design considerations; including runways configurations, site, location requirements, master planning and zoning laws will be examined. The socioeconomic effect of airports on the communities they serve will be explored.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM2450 AIRPORT PLANNING AND DESIGN**

(3)

Introduction to the initial design of airports and adaptations made as airports experience growth. Topics of discussion include; analysis of runway and taxiway design, terminal ramp areas, terminal facilities, airport parking and roadway systems based on airport capacity forecasts, intended use, funding, and community demographics. Discussions also include the modification and adaptation of existing airport facilities, airport master plans, air cargo facilities, airport access, and environmental impacts of airport planning and design.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM2510 AIRLINE MANAGEMENT**

(3)

An introduction to the administrative aspects of airline operation and management. Topics include the structure of the airline industry in the United States including first, second, third level carriers, the annual profit plan, uniform system of accounts and reports, organizational planning, demand analysis, scheduling, the theory of pricing, fleet planning, facilities planning and airline financing.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVM2941 AIRPORT OPERATIONS INTERNSHIP II**

(3)

Practical application of acquired knowledge at a certificated airport. The student will be exposed to the finance, business, legal, and public relations aspects of Airport Management. Intern will gain experience in the collection of rents and allocation of monies in airport operation. Receive knowledge on how grant money is applied for and received as well as the business aspect of leasehold compliance. Exposure to legal aspect of airport operation, including compliance with federal and state laws, liability claims and procedures. Exposure to Airport Planning, Airport Master Plan, construction and refurbishment of airport facilities, airport layout plan, and airspace studies. Work with airport public relations and marketing personnel on communicating with media and marking the airport as a business enterprise toward potential airlines and tenants. Requires special application and criminal background check.

Prerequisite: instructor's permission
Prerequisite: ASC2320, AVM1940, AVM2450, AVM2510
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**AVS0090C OCP E: AVIONIC FUNDAMENTALS ITEMS**

(6)

The purpose of this program is to prepare student for employment as radio mechanics (85514608) as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of airborne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and industry standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment.

Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

Lec Hrs=90 Lab Hrs=90 Oth Hrs=0 Fees=48.00

**AVS0091C OCP F: AVIONIC INSTALLER (180 HRS)**

(6)

The purpose of this program is to prepare students for employment as radio mechanics (85514608) as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of airborne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and
industry standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

Lec Hrs=90 Lab Hrs=90 Oth Hrs=0 Fees=48.00

AVS0092C OCP G: AVIONICS COMMUNICATION SYSTEMS
The purpose of this program is to prepare students for employment as radio mechanics (85514608) and as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of air-borne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and industry standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

Lec Hrs=90 Lab Hrs=90 Oth Hrs=0 Fees=97.00

AVS0093C OCP H: NAVIGATION/SUPPORT SYSTEMS I
The purpose of this program is to prepare students for employment as radio mechanics (85514608) and as avionics technicians (823.281-010). The course content includes, but is not limited to, troubleshooting, repair and installation of air-borne radio communications, radio navigation, and radar equipment systems in accordance with regulatory and industry standards. Also included is instruction in basics of AM and FM transmitters and receivers and avionics equipment. Skills preparation for passing licensing/certification tests required by industry forms an integral part of the curriculum.

Lec Hrs=90 Lab Hrs=90 Oth Hrs=0 Fees=108.00

BCN1251C BUILDING CONSTRUCTION DRAWING I
This is the first in a two-course sequence of construction drawing courses. The first half of the semester will include a review of basic drafting techniques. The second half will be devoted to an in-depth study of residential construction, working drawings and how they are prepared. Auto CAD will be used extensively as one of the tools for preparing drawings. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=50.00

BCN1272 BUILDING CONSTRUCTION PLANS INTERPRETATION
This course is designed to provide an overview of construction documents and to develop the student's ability to quickly interpret working drawings. Emphasis is on architectural and structural details with limited coverage on mechanical and electrical aspects.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCN2253C BUILDING CONSTRUCTION DRAWING II
This is the second in the two-sequence of building construction drafting courses. The focus of this course will be on the development of advanced drafting techniques while gaining an understanding of more complex construction procedures for commercial buildings. Advanced AutoCAD techniques will be used extensively as one of the tools for preparing drawings. Prerequisite: BCN1251C. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=50.00

BCN2560 MECHANICAL AND ELECTRICAL SYSTEMS
Acquaints student with mechanical and electrical equipment commonly used in high rise and commercial buildings. Presents fundamentals of air conditioning, heating, lighting, communicating, and wiring for electrical equipment. Includes a study of specialty equipment, such as solar heating.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCN2614C CONSTRUCTION ESTIMATING II
A study of construction contracts, contractor responsibilities, job planning, scheduling, selection of equipment, methods of construction and safety standards. The student is required to make quantity takeoffs from a set of plans to do pricing of labor and materials. Prerequisite: BCT1770

Lec Hrs=16 Lab Hrs=48 Oth Hrs=0 Fees=50.00

BCT1706 CONSTRUCTION DOCUMENTS
This is designed to familiarize students with documents used in the construction industry, facets of the construction process, contractual relationships, the relationship of documents to each phase of construction and an overview of the Construction Specifications Institute's (CSI) 16 divisions. At the conclusion of the course, students will have gained the proficiency necessary to pass the Construction Documents Technologist (CDT) certification exam given by the CSI.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCT1743 BUILDING CONSTRUCTION LAW
A study of the legal aspects of construction contracts and the responsibilities arising particularly from the field operations. Also includes relationship of general contractor to owner, architect, and subcontractor; mechanics lien law; bonds; labor law; and other statutes and ordinances regulating contractors.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCT1767 OSHA STANDARDS
This course is designed to give students an awareness of the hazards associated with the construction industry's working environment. Emphasis is on OSHA regulations and the knowledge to improve the overall safety on a job site. At the successful conclusion of the course, students will receive OSHA certification.

Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCT1770 CONSTRUCTION ESTIMATING I
An analysis and determination of building construction costs.Commences with the classification of materials, labor, and subcontracted work into the smallest manageable units. Development of a simple estimate for a residential structure.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BCT2040 MEP PLANS INTERPRETATION
This course is designed to develop the student's ability to quickly interpret working drawings. Emphasis is on the details and specifications of mechanical, electrical, and plumbing plans.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BCT2710 INFRASTRUCTURE COORDINATION (2)**
This course provides the student with an overview of the various agencies related to the construction industry. Special emphasis is on the need for and the manner of coordinating with these agencies. Students will receive exposure to the variety of permits, learn to interface with the agencies in order to coordinate the permit process, and understand how this coordinates with the project.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BCT2760 BUILDING CODES AND REGULATIONS (3)**
A rigorous review and study of the South Florida Building Code as it applies to structures and safety. For professionals employed as inspectors, architects, engineers and contractors.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BCT2787C MECHANICAL ELECTRICAL PLUMBING DRAWING (3)**
The focus of this course will be on the development of advanced drafting techniques while gaining an understanding of more complex construction procedures for commercial and institutional buildings as it relates to mechanical, electrical, and plumbing. Advanced Archi-CAD, Auto-CAD &/or Micro Station techniques will be used extensively for preparing drawings.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

**BCT2941L BUILDING CONSTRUCTION FIELD EXPERIENCE (1)**
This course is designed to provide students with field experiences, including shadowing and job site visits which help the student understand the organizational structure of a variety of construction companies and how the companies function.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

**BOT2010 GENERAL BOTANY (3)**
Course designed to treat entire plant kingdom with emphasis on structure, function, and genetics of flowering plants. Fundamental cell and tissue structure of both vascular and non-vascular plants are studied. Associated physiological and chemical effects as related to function are emphasized.
Placement by Testing Department or Pre or Co-requisite: BOT2010L
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BOT2010L GENERAL BOTANY LABORATORY (1)**
Laboratory experiments and field trips to accompany BOT2010. Upon successful completion of this course, the students should be able to demonstrate knowledge of the plant kingdom through prescribed activities that focus on morphology, taxonomy, anatomy and physiology of selected representative specimens. Dissection exercises included. This course can be used for the AA degree. Pre or Co-requisite: BOT2010
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=30.00

**BOT2800 ETHNOBOTANY (3)**
This course will emphasize the role of plants in the development of civilizations, and the influence of plants on world history, politics, economics and culture. Will survey important plants and plant products from different cultures around the world. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1005 GENERAL BIOLOGY (3)**
Course designed to give students an understanding of principles of Biology, while focusing on the nature and activities of living organisms. Course primarily for non-science majors (see BSC1005L). This course can be used for the AA degree. Placement by Testing Department or Pre or Co-requisite: BSC1005
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1005L GENERAL BIOLOGY LABORATORY (1)**
Two hours of laboratory weekly, this provides hands on activities that develop basic laboratory skills while reinforcing basic concepts in biology. Dissection exercises may be a component of this course. This course can be used for the AA degree. Pre or Co-requisite: BSC1005
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=22.00

**BSC1010 INTRODUCTION TO BIOLOGY I (3)**
This course is the first of a two-semester sequence introducing science majors to biological principles including cell structure, function, communication, reproduction, biochemistry and metabolism, classical and molecular genetics, and genetic engineering. Upon successful completion of this course, the student will be able to explain the methods of science, describe the characteristics of life, describe structure, function, and communication of cells, distinguish mitosis and meiosis, describe cell energetics, photosynthesis and respiration, solve genetics problems, and describe major advances in genetic engineering. Three hours lecture per week. This course can be used for the AA degree. Pre or Co-requisite: BSC1010L CHM1040
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1010L INTRODUCTION TO BIOLOGY I LABORATORY (1)**
This laboratory course is the first of a two-semester sequence introducing science majors to biological principles including cell structure, function, communication, reproduction, biochemistry and metabolism, classical and molecular genetics, and genetic engineering. 3 hours of lab per week. This course can be used for the AA degree. Pre or Co-requisite: BSC1010L
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=40.00

**BSC1011 INTRODUCTION TO BIOLOGY II (3)**

This course is the second of a two-semester sequence introducing science majors to biological principles including a study of the Five Kingdoms: Evolution and Population Dynamics, and Ecology. Prerequisite: BSC1010, BSC1010L Co-requisite: BSC1011L This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1011L INTRODUCTION TO BIOLOGY II LABORATORY** (1)
This laboratory course is the second of a two-semester sequence introducing science majors to biological principles including a study of Five Kingdoms, Evolution and Population Dynamics, and Ecology. Laboratory exercises complement lecture topics. Dissection exercises included. 3 hours of lab per week. Special fee charged. This course can be used for the AA degree. Prerequisite: BSC1010, BSC1010L Co-requisite: BSC1011L Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=40.00

**BSC1085 HUMAN ANATOMY AND PHYSIOLOGY I** (3)
A survey of the structure, function, and chemistry of the human body considering the following topics: chemistry, body organization, the cell, tissues, membranes, glands, the integumentary system, the skeletal system, the muscular system, the nervous system, and the special senses. 3 hrs. lec. per week. CHM 1032, CHM 1040, or CHM 1045 is very strongly recommended (see your program requirements). Pre or Co-requisite: BSC1085L This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1085L HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY** (1)
A survey of the structure, function, and chemistry of the human body considering the following topics: chemistry, body organization, the cell, tissues, membranes, glands, the integumentary system, the skeletal system, the muscular system, the nervous system, and the special senses. 3 hours of lecture per week. CHM 1032, CHM 1040, or CHM 1045 is very strongly recommended (see your program requirements). This course can be used for the AA degree. Pre or Co-requisite: BSC1085 Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=18.00

**BSC1086 HUMAN ANATOMY AND PHYSIOLOGY II** (3)
A continuation of the Anatomy and Physiology sequence, including the following topics; the Circulatory System, the Respiratory System, the Digestive System, the Urinary System, Fluid and Electrolytes and the Reproductive System. 3 hours of lecture per wk. CHM1032, CHM1040, or CHM1045 is very strongly recommended (see your program requirements). This course can be used for the AA degree. Prerequisite: BSC1085, BSC1085L Pre or Co-requisite: BSC1086L Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC1086L HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY** (1)
Laboratory experiments coordinated with BSC1086, including microscope observation, study of anatomical models and dissection. Dissection exercises included. CHM1032, CHM1040, or CHM1045 is very strongly recommended as a prerequisite (see your program requirements). Special Fee charged. This course can be used for the AA degree. Prerequisite: BSC1085, BSC1085L Pre or Co-requisite: BSC1086 Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=39.00

**BSC2421 INTRODUCTION TO BIOTECHNOLOGY** (3)
This lecture based course provides an introduction to concepts and principles associated with current accepted biotechnological practices in the areas of laboratory safety and microbiology techniques, laboratory skills (measurements and calculations, preparation of solutions, use of various instruments) and microscopy. In addition, methods of DNA extraction, amplification, gene cloning, nucleic acids and protein electrophoresis and fingerprinting will be covered. This course can be used for the AA degree. Prerequisite: BSC1005, BSC1005L Co-requisite: BSC2421 Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BSC2421L INTRODUCTION TO BIOTECHNOLOGY LABORATORY** (1)
This laboratory course provides hands-on experience in basic and common biotechnology laboratory techniques in the areas of laboratory safety, culture techniques, laboratory skills (measurements and calculations preparations of solutions, use of various laboratory instruments), and microscopy. In addition, methods in DNA extraction and amplification, gene cloning, nucleic acids, and protein electrophoresis and fingerprinting will be demonstrated. This course can be used for the AA degree. Prerequisite: BSC1005, BSC1005L Pre or Co-requisite: BSC2421 Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=60.00

**BSC2949 CO OP WORK EXPERIENCE** (3)
A course designed to provide training in a Student’s field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. Placement done by Testing Department. This course can be used for the AA degree. Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**BUL2241 BUSINESS LAW I** (3)
This course covers basic principles of law and their application to business problems. Topics include a discussion of legal rights and social forces; the legal relationships of government, business and society; law of contracts; personal property, bailments, sales of goods, torts and business crimes. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
BUL2242 BUSINESS LAW II (3)
This course provides a study of the legal principles covering negotiable instruments, creditors' rights and secured transactions; agency, employer-employee relations; franchises, insurance, bankruptcy, partnerships, corporations, and real property. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

BUL3130 BUSINESS LAW AND ETHICS (3)
This course explores the nature of legal, ethical and societal environments of business. Emphasis is placed on business's social, legal, political and ethical responsibilities to both external and internal groups for business. Topics include corporate social responsibility, legal, political, and ethical aspects of business, state and federal laws, contracts, intellectual property, employment law, product liability, safety issues and environmental regulation.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CCJ1020 INTRODUCTION TO CRIMINAL JUSTICE (3)
Introduction to the historical and philosophical background of the agencies of the Criminal Justice System. An examination of the relationships between the police, courts and correctional systems.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CCJ2191 HUMAN BEHAVIOR IN CRIMINAL JUSTICE (3)
A consideration of human behavior and how it relates to the duties and responsibilities of the criminal justice practitioner.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CCJ2933 CORRECTIONS PRACTICUM (3)
This course offers practical experiences in corrections or related disciplines of criminal justice giving the student the opportunity to apply classroom knowledge. Prerequisite: CCJ1020 or permission of instructor.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CCJ2949 CO OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Student will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.
This course can be used for the AA degree. Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CDA4411 SYSTEMS INTEGRATION AND ARCHITECTURE (3)
This course provides the student with a detailed understanding of computer hardware and system software. The material covered in this course is intended to establish a platform of technical knowledge for systems analysis, design, configuration, procurement, and management.
Prerequisite: CEN4341, CIS4361, COP4858
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CEN4341 PLATFORM TECHNOLOGIES (3)
IT professionals will encounter a variety of platforms in their career. The role of the IT professional is to select, deploy, integrate and administer platforms or components to support the organizations IT infrastructure. This knowledge area includes the fundamentals of hardware and software and how they integrate to form essential components of IT systems.
Prerequisite: CNT3504, CNT3604
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CEN4722 HUMAN COMPUTER INTERACTION (3)
This course will provide the student the necessary elements in understanding and accomplishing the Human Computer Interaction in the area of Information Technology. The student will learn user centered methodologies in the design, development, evaluation and employment of application and system software.
Prerequisite: COP2800C
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CET114C DIGITAL TECHNIQUES (5)
The study and application of digital logic circuits. Topics include binary, octal and hexadecimal number systems, Boolean algebra, Karnaugh mapping, logic gates, flip flops, counters, and registers, applications in combinational and sequential logic systems. Extensive laboratory practice. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=32 Oth Hrs=0 Fees=10.00

CET117C MICROPROCESSORS I (4)
Study of the organization and operation of a stored program digital computer with emphasis on CPU operation in response to assembly and machine language instructions. Methods of selecting and operating I/O devices under program control will also be studied. Course work includes sophisticated assembly language programming for the microprocessor. This course can be used for the AA degree.
Prerequisite: instructor approval or Prerequisite: CET114C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

CET461C TECHNICAL COMPUTER APPLICATIONS (3)
Technical computer applications, including the use of the Windows operating system, computer applications such as word processing, spreadsheets, presentation graphics, an introduction to CAD (Computer-Aided Design) and electronic simulation software is presented with emphasis on the solution of problems in the Engineering Technology fields. This course is geared towards the Engineering Technology student.
Prerequisite: EET1015C MTH1325
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

CET600C CISCO NETWORKING I (4)
This course introduces the architecture, structure, functions components, and models of the Internet and computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocol and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the
fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Labs use a `model internet' to allow students to analyze real data without affecting production networks. Packet Tracer, (PT) activities help students analyze protocol and network operation and build small networks in a simulated environment. At the end of the course, students build simple LAN topologies by applying basic principles of cabling, performing basic configurations of network devices such as routers and switches, and implementing IP addressing schemes.

Prerequisite: CTS1133C, CTS2131C.
Pre or Co-requisite: CET1630C.
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=150.00

**CET1610C CISCO NETWORKING II (4)**

This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPV1, RIPV2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems. Students complete a basic procedural lab, followed by basic configuration, implementation, and troubleshooting labs in each chapter. Packet Tracer, (PT) activities reinforce new concepts, and allow students to model and analyze routing processes that may be difficult to visualize or understand.

Prerequisite: CET1600C.
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=150.00

**CET1615C CISCO NETWORKING III (4)**

This course provides comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network.

Prerequisite: CET1610C.
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=150.00

**CET1620C CISCO NETWORKING IV (4)**

This course discusses the WAN technologies and network services required by converged applications in Enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues.

Prerequisite: CET1615C.
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=150.00

**CET1630C NETWORK CABLELING TECHNOLOGIES (4)**

This course is designed for students interested in the physical aspects of voice and data network cabling and installation. The course focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards, types of media and cabling, physical and logical networks, as well as signal transmission. Students will develop skills in cable termination, troubleshooting, and basic cabling calculations. This hands-on, lab-oriented course stresses documentation, design, and installation issues, as well as laboratory safety, on-the-job safety, and working effectively with others. The Panduit Network Infrastructure Lab may be difficult to visualize or understand.

Prerequisite: CET1114C CET1117C.
Lec Hrs=56 Lab Hrs=24 Oth Hrs=0 Fees=0.00

**CET2486C NETWORKING TECHNOLOGY (2)**

This course covers topics in networking technology including OSI communications, networking and services, as well as troubleshooting of networking devices and components. Networking optimization is also included.

Prerequisite: CET2625C.
Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=16.00

**CET2625C CISCO CCNP I (4)**

This course provides students with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalable and secure Cisco ISR routers connected to LANs and WANs. The skills developed by students completing this course will help prepare them for the Cisco Switch Exam.

Prerequisite: CET1620C.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CET2627C CISCO CCNP II-SWITCHING (4)**

This course provides students with knowledge and skills necessary to plan, configure, and verify the implementation of complex enterprise switching Cisco's Campus Enterprise Architecture. The skills developed by students completing this course will help prepare them for the Cisco Switch Exam.

Prerequisite: CET2625C.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CET2628C CISCO CCNP III (4)**

This course provides students with the knowledge and skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and to use
CGS2100C COMPUTER APPLICATIONS
This course is intended to provide technical, programming, and administrative background and experience for a career in the World-Wide Web. Students should have a working familiarity with the Internet and the World-Wide Web, such as could be gained in CGS1555C, Introduction to the Internet.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=24.00

CGS2554C E-COMMERCE WEB DEVELOPMENT
This course teaches development of E-Commerce websites for back-end server applications. It stresses development of database information and manipulation for web delivery. Students should have complete knowledge of HTML and Database Management before taking this course. Students will conceptualize and develop E-Commerce web sites.
Prerequisite: CGS1540C, CGS1557C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

CGS2874C MULTIMEDIA AUTHORING II
Continuation of multimedia CGS2871C with emphasis on functions, variables, and development of complex interactive titles for cross platform delivery. Custom variables will be created. In-depth projects will be developed using video, audio, text, and graphics while controlling the program direction, testing, and debugging. Hypertext and development of on-line help modules and documentation will be included in the projects.
Prerequisite: DIG2500C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

CHD1320 CURRICULUM PLANNING FOR EARLY CHILDHOOD
Content and methods of planning developmentally appropriate activities to enhance children's cognitive, social, emotional, physical and creative development. Lesson plan formats and daily scheduling will be covered. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHD1331 CREATIVITY FOR YOUNG CHILDREN
This course offers an understanding of theory in children's art, music, and movement activities and their practical classroom application through process oriented and teacher activities.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHD1334 CHILDREN'S LITERATURE & LANGUAGE ARTS
This historical perspective will guide a study of qualitative books, such as fairy tales, folk tales, poems, and nursery rhymes. The role of the teacher in the child's acquisition of communication skills will be investigated. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
CHD1338 MATH AND SCIENCE FOR THE YOUNG CHILD (3)
Designed to foster understanding of the development of mathematical thinking and the mental ability of the preschool child. The science portion will enable the pupil to become familiar with the concept and techniques of "sciening."
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHD1940 PRACTICUM I: OBSERVATION AND EVALUATION (3)
Offers an opportunity to observe children in child care settings, gain understanding of their behavior and evaluate their environments.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

CHD2441 PRACTICUM II (3)
Facilitates practical experiences in techniques of early childhood education. Requires qualified supervision in a school or center for preschool education.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=0.00

CHD2800 ADMINISTRATION AND MANAGEMENT IN EARLY CHILD EDUCATION (3)
This course will emphasize the design and operation of a childcare facility. Classroom exposure will emphasize and assess site selection, building design and supervisory functions, equipment selection, activity planning, scheduling, financing, budgeting, record-keeping, and marketing.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1025 INTRODUCTION TO CHEMISTRY (3)
Selected topics from General Chemistry. Topics covered include chemical measurements, atomic structure, periodic table, chemical bonding, inorganic compound nomenclature and formula writing, stoichiometry, gases, liquids, solids, solutions, acid-base chemistry, oxidation-reduction chemistry, energy, and nuclear chemistry. Prerequisite: MAT0028.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1025L INTRODUCTION TO CHEMISTRY LABORATORY (1)
Laboratory experiments to accompany CHM1025. This course can be used for the AA degree. Prerequisite: MAT0028, REA0017C
Pre or Co-requisite: CHM1025
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=25.00

CHM1032 CHEMISTRY FOR HEALTH SCIENCES (3)
Selected topics from General Chemistry, Organic Chemistry and Biochemistry. This course is designed specifically for Nursing and other Allied Health Technology students. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1032L CHEMISTRY FOR HEALTH SCIENCES LABORATORY (1)
Laboratory exercises to accompany CHM1032. This course can be used for the AA degree. Prerequisite: MAT0028 Pre or Co-requisite: CHM1032
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=18.00

CHM1040 GENERAL CHEMISTRY A (EXPANDED SEQUENCE) (3)
This is the first course in a three-semester sequence, CHM1040, CHM1041 and CHM1046. This sequence includes two laboratories: CHM1045L to be taken concurrently with CHM1041 and CHM1046L to be taken with CHM1046. Topics covered include: measurements, stoichiometry, atomic structure, periodic table, chemical bonding, ionic and covalent compounds, nomenclature, and formula writing. This course can be used for the AA degree. Pre or Co-requisite: MAT1033
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1041 GENERAL CHEMISTRY B (EXPANDED SEQUENCE) (3)
This is the second course in a three-semester sequence which includes: CHM 1040, CHM 1041, and CHM 1046. This sequence also includes two laboratories: (1) CHM 1045L to be taken concurrently with CHM 1041, and (2) CHM 1046L to be taken with CHM 1046. Topics covered include: gases, liquids, solids, solutions acid-base chemistry and ionic reactions, thermodynamics and some descriptive chemistry of non-metals. This course can be used for the AA degree. Pre-requisite: CHM1040
Pre or Co-requisite: CHM1045L MAC1105
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1045 GENERAL CHEMISTRY 1 (3)
This is the first course in a two semester sequence, CHM 1045 and CHM 1046. This sequence includes two laboratories: CHM 1045L to be taken concurrently with CHM 1045, and CHM 1046L to be taken with CHM 1046. This sequence is for students who have already had high school chemistry. Topics covered include: chemical measurements, stoichiometry, atomic structure periodic table, chemical bonding, inorganic compounds, nomenclature, formula writing, gases, liquids, solids, solutions acid-base chemistry and ionic reactions and some descriptive chemistry of non-metals. To enroll, it is strongly recommended that students have had previous chemistry at the high school or college level. If a student has not had prior experience in a chemistry course the CHM 1040, CHM 1041, CHM 1046 sequence is highly recommended. This course can be used for the AA degree. Pre-requisite: MAC1105
Pre or Co-requisite: CHM1045L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1045L GENERAL CHEMISTRY 1 LAB (1)
Laboratory experiments to accompany CHM1041 or CHM1045. Placement by Testing Department or This course can be used for the AA degree. Pre or Co-requisite: CHM1045
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=18.00

CHM1046 GENERAL CHEMISTRY II (3)
This is the final course of the two-semester general chemistry sequence: CHM 1045 and CHM 1046; and the final course of the three-semester general chemistry sequence: CHM 1040, CHM 1041, and CHM 1046. These sequences include two laboratories: (1)CHM 1045L to be taken concurrently with CHM 1041 or CHM 1045, and (2)CHM 1046L to be taken with CHM 1046. Topics covered include thermodynamics, kinetics, equilibrium, electrochemistry, coordination chemistry, descriptive chemistry of metals, nuclear chemistry, and an introduction to organic chemistry. This course can be used for the AA degree.

Prerequisite: CHM1045, CHM1045L.
Pre or Co-requisite: CHM1046L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM1046L GENERAL CHEMISTRY II LAB (1)  
Laboratory experiments to accompany CHM1046E or CHM1046. Special fee charged. Upon successful completion of this course, the student should be able to use appropriate laboratory equipment to safely perform laboratory experiments that relate to the topics covered in CHM1046 or CHM1046E, to collect data accurately and to use those data to calculate a reasonable answer or come to a logical conclusion. This course can be used for the AA degree.

Prerequisite: CHM1045, CHM1045L.
Pre or Co-requisite: CHM1046.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM2210 ORGANIC CHEMISTRY I (3)  
First part of a two course sequence presenting the structure, preparation, reaction, and nomenclature of various classes of organic compounds and their derivatives. Reaction electronic mechanisms are interpreted and unified in the light of modern theory. This course can be used for the AA degree.

Prerequisite: CHM1046, CHM1046L.
Pre or Co-requisite: CHM2210L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM2210L ORGANIC CHEMISTRY I LABORATORY (1)  
Organic laboratory experiments and preparations to accompany CHM2210. Special fee charged. This course can be used for the AA degree.

Prerequisite: CHM1046, CHM1046L.
Pre or Co-requisite: CHM2210.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

CHM2211 ORGANIC CHEMISTRY II (3)  
Second of the two-part organic chemistry course. A continuation of the study of the remaining classes of organic compounds including use of spectroscopic methods and an introduction to bio-organic molecules. This course can be used for the AA degree.

Prerequisite: CHM2210, CHM2210L.
Pre or Co-requisite: CHM2211L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM2211L ORGANIC CHEMISTRY II LABORATORY (1)  
Appropriate experiments and preparation to compliment CHM2211. Special fee charged. This course can be used for the AA degree.

Prerequisite: CHM2210, CHM2210L.

Pre or Co-requisite: CHM2211.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=50.00

CHM3047 SURVEY OF GENERAL CHEMISTRY (3)  
This course is a one semester course which introduces the pre-professional science educator to fundamental chemical concepts. This is a content course in the B.S. Degree in the BC Science Education Program. The course has been designed to enhance the understanding of chemical concepts essential for the K-12 classroom. This program has been designed to correlate chemistry concepts with the NSTA National Science Content Standards, the Florida Subject Matter Content Standards, and the Florida Sunshine State Science Standards.

Co-requisite: CHM3047L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM3047L SURVEY OF GENERAL CHEMISTRY LAB (1)  
This course has three hours laboratory per week with laboratory experiments to accompany the lectures in CHM3047, Survey of General Chemistry. This is a content laboratory course in the B.S. Degree in the BC Science Education Program. The course has been designed to enhance the understanding of chemical concepts essential for the K-12 classroom. This program has been designed to correlate chemistry concepts with the NSTA National Science Content Standards, the Florida Subject Matter Content Standards, and the Florida Sunshine State Science Standards.

Co-requisite: CHM3047.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=24.00

CHM3205 ORGANIC & BIOCHEMISTRY (3)  
This course is one semester course which introduces the pre-professional science educator to fundamental organic and biochemical concepts. This is a content course in the B.S. Degree in the BC Science Education Program. The course has been designed to enhance the understanding of organic and biochemical concepts essential for the K-12 classroom. This program has been designed to correlate chemistry concepts with the NSTA National Science Content Standards, the Florida Subject Matter Content Standards, and the Florida Sunshine State Science Standards.

Co-requisite: CHM3205L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CHM3205L ORGANIC & BIOCHEMISTRY LAB (1)  
This course has a weekly 3-hour session with laboratory experiments to accompany the lectures in CHM3205 Survey of Organic Chemistry and Biochemistry. This is a content laboratory course in the B.S. Degree in the BC Science Education Program. The course has been designed to enhance the understanding of organic and biochemical concepts essential to the K-12 classroom. This program has been designed to correlate chemistry concepts with the NSTA National Science Content Standards, the Florida Subject Matter Content Standards, and the Florida Sunshine State Science Standards.

Co-requisite: CHM3205.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

CIS1000C INTRODUCTION TO COMPUTER

www.broward.edu.
CIS513C PROJECT MANAGEMENT (3)
This course examines the organization, planning, and controlling of projects and provides practical knowledge on managing project scope, schedule and resources. Topics include project life cycle, work breakdown structure and Gantt charts, network diagrams, scheduling techniques, and resource allocation decisions. Concepts are applied through team projects and tutorials using project management software. Prerequisite: CGS1060C or placement. This course can be used for the AA degree.
Prerequisite: CGS1060C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=42.00

CIS221C SYSTEMS ANALYSIS AND DESIGN (3)
This course introduces the process and methodology for system analysis and design. Students will be able to learn the process of system development, the traditional structural approach for system analysis and design, use of modeling tools, adherence to methodological life cycle and project management standards system development strategy and new trends of system development. Through class discussion, hands-on assignments and a team project, students will learn how to translate business requirement into information systems. This course can be used for the AA degree.
Prerequisite: CIS1000C COP1134C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=0.00

CIS3510 PROJECT MANAGEMENT (3)
This course covers the general aspects of project management and emphasizes the important special considerations which apply to technology projects. Supporting software is used extensively.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CIS4253 SOCIAL AND PROFESSIONAL ISSUES IN IT (3)
In addition to technical skills, an IT professional must understand the social and professional context of information technology and computing, and adhere to ethical codes of conduct. This knowledge area covers the historical, social, professional, ethical and legal aspects of computing. It identifies how teamwork is integrated throughout IT and how IT supports an organization. It also stresses professional oral and written communication skills.
Prerequisite: CEN4722

CIS4361 INFORMATION ASSURANCE AND SECURITY (3)
The information technology (IT) professional must understand, apply, and manage information assurance and security (IAS) in computing, communication, and organizational systems. It is also important for the IT professional to provide users with a framework to be sufficiently security aware to be an asset to the organization rather than a liability. IAS includes operational issues, policies and procedures, attacks and defense mechanisms, risk analyses, recovery, and information security. It should also be noted that many of the essential educational activities in this knowledge area may be illegal if performed outside a controlled environment, or without proper authorization. It is the responsibility of each individual program to appropriately administer these activities.
Prerequisite: CNT3504
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CIS4596 IT CAPSTONE PROJECT (3)
This course will give the IT student the ability to utilize what he/she has learned from the IT Program and adapt it to a work environment. This will be accomplished by providing the student a senior project that includes: project proposal, feasibility studies, identification of intellectual property, and a teamwork environment for projects creation, and second, project support which includes: budgets, schedule management, communications through reports and presentations project testing, implementation and final approval. Note: This course must be taken in the final semester. Permission from the Deans of Business, Technology & Management and Student Affairs or Pre or Co-requisite: CDA4411, CEN4341, CEN4722, CJS3510 CJS4253, CJS4361, CNT3604, COP3703, COP3847, COP4858
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJC2000 INTRODUCTION TO CORRECTION (3)
Introduction to the historical events and social issues that have shaped the corrections (prison/jail) system in the U.S., and an examination of contemporary corrections in terms of structure, clients, management, staff, programs and prisoners' rights. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJC2162 PROBATION AND PAROLE PROCEDURES (3)
Examines this important community-based treatment aspect of the corrections system, reviews philosophy and development, the pre-sentence investigation, and supervision methods. Juvenile practices are also included. 3 hours of lecture This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE1300 INTRO TO CRIMINAL JUSTICE ADMINISTRATION & MANAGEMENT (3)
Introduction to principles of administration and managerial concepts characteristic of criminal justice organizations. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
CJE2170 COMPARATIVE WORLD POLICE AGENCIES (3)  
A survey of contemporary foreign law enforcement and criminal justice systems. Includes the operational and philosophical differences emerging from various cultural and legal systems. This course will include case and group studies of selected countries. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2400 POLICE COMMUNITY RELATIONS (3)  
A consideration of the significance of establishing good working relationships between the police and the public, including the complex factors that lead to successful police community relations. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2580 INTERVIEWS AND INTERROGATIONS (3)  
This course is designed to cover the techniques, methods, principles and issues of interviews and interrogations for criminal justice officers and investigators. Course offered through Deception Control, Inc., Ft. Lauderdale.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2600 CRIMINAL INVESTIGATION (3)  
The investigation activity of a police department is studied to evaluate its organization, function and relationship with other divisions and agencies. Emphasis is placed on the procedural aspects and methodology employed in the investigative process. The student will know the elements of preliminary and follow-up investigations, to include methods of crime scene search, collection and preservation of evidence, and chain of custody concepts. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2640 INTRODUCTION TO CRIMINALISTICS (3)  
An introduction to the scientific aspects of investigation known as criminalistics, with emphasis on crime scene techniques, the collection and preservation of evidence and the examination of evidence. Students will be familiarized with the capabilities and limitations of a police laboratory. Special fee charged. One hour of Lecture; 2 hours of Lab. This course can be used for the AA degree.
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=20.00

CJE2642 CRIMINALISTICS PRACTICUM (3)  
The knowledge and skills developed in the prerequisites are coordinated in practical exercises which will develop expertise in the complete processing of crime scenes. Special fee charged. One hour of lecture; 2 hours of Lab.
Prerequisite: CJE2600, CJE2640, CJE2770
Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=44.00

CJE2643 ADVANCED FORENSIC INVESTIGATION (3)  
This course explores the scientific and investigative methods used to solve serious crimes against persons. Topics include distinguishing between causes of death, such as accidental, suicide or homicide; the use of autopsies; child and elderly abuse investigation. (NOTE: this course utilizes graphic material that may make some students uncomfortable.) Instructor’s approval or Prerequisite: CJE2600, CJE2640
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2722 POLYGRAPH THEORY AND OPERATIONS (3)  
Includes the history and development of the polygraph with further emphasis on mechanics of instrument operation, maintenance and calibration. Course offered through Deception Control, Inc., Fort Lauderdale.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2723 TEST QUESTION CONSTRUCTION & SEMANTICS/PERSOONEL SCREENING (3)  
The construction of test questions appropriate to the personnel aspect of the polygraph is emphasized. Course offered through Deception Control, Inc., Fort Lauderdale.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2724 TEST QUESTION CONSTRUCTION & SEMANTICS/CRIMINAL CASES (3)  
The construction of test questions appropriate to the criminal case aspect of the polygraph is emphasized. Course offered through Deception Control, Inc., Fort Lauderdale.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2725 CHART ANALYSIS, VALIDITY AND RELIABILITY (4)  
Validity and reliability of the polygraph is examined, along with an in-depth consideration of chart analysis. Course offered through Deception Control, Inc., Fort Lauderdale.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2726 POLYGRAPH OPERATIONS PRACTICUM (3)  
Types of polygraph techniques and examinations are considered with emphasis on conducting examinations in role playing situations in the laboratory. Course offered through Deception Control, Inc., Fort Lauderdale.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJE2770 FORENSIC PHOTOGRAPHY AND VISUAL DOCUMENTATION (3)  
The student is taught specific skills necessary to visually document and photographically preserve crime scenes and evidence, from both technical and legal standpoints.
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=8.00

CJJ2001 JUVENILE JUSTICE (3)  
An analysis of the criminal justice system as it relates to juveniles. Major topics include: police practices (such as detention, searches and interrogation) when dealing with juveniles, court procedure in juvenile cases and different theories of juvenile rehabilitation. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0007 INTRODUCTION TO LAW ENFORCEMENT (0)  
This course is designed to provide an overview of academy requirements, the criminal justice system, the values and ethics required for criminal justice officers, and the consequences of sexual harassment.
Course Descriptions

Lec Hrs=11 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0008 LEGAL
This course is designed to provide students a foundation in the aspects of law relevant to the duties of criminal justice officers.
Lec Hrs=69 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0011 HUMAN ISSUES
This course is designed to familiarize the student with the human issues encountered by the law enforcement officer. These issues include, but are not limited to substance abuse, mental illness, physical and developmental disabilities.
Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0017 COMMUNICATIONS
This course is designed to provide students the communication skills relevant to the duties of criminal justice officers.
Lec Hrs=76 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0020 VEHICLE OPERATIONS
This course presents the dynamics of emergency vehicle operations and develops skills in operating a motor vehicle in the law enforcement environment. A demonstration of proficiency is required.
Lec Hrs=24 Lab Hrs=24 Oth Hrs=0 Fees=0.00

CJK0031 FIRST AID FOR CRIMINAL JUSTICE OFFICERS
This course provides life-saving skills development in emergency medical situations appropriate for the law enforcement officer, including: CPR and communicable diseases.
Lec Hrs=24 Lab Hrs=16 Oth Hrs=0 Fees=0.00

CJK0040 FIREARMS
This course develops proficiency with the semi-auto pistol used by a law enforcement officer. Qualification is required at various lighting levels.
Lec Hrs=4 Lab Hrs=78 Oth Hrs=0 Fees=0.00

CJK0051 CMS CRIMINAL JUSTICE DEFENSIVE TACTICS
This course is designed to provide the student defensive skills appropriate for the threat level, within Florida law. Demonstration of proficiency is required.
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0061 PATROL I
This course is designed to familiarize the student with the law enforcement officer's duties while on patrol: Community Oriented Policing, patrol and problem solving techniques, officer safety, arrest, custody and other related patrol functions.
Lec Hrs=58 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0062 PATROL II
This course is designed to provide the student knowledge of procedures necessary to address various high risk situations, to include: incident command system, crowd control, gangs and extremist groups, hazardous materials, bombs and explosives.
Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0071 CRIMINAL INVESTIGATIONS
This course is designed to familiarize the student with the general process and procedures related to criminal investigations.
Lec Hrs=56 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0076 CRIME SCENE INVESTIGATIONS
This course is designed to familiarize the student with the general process and procedure for responding to and processing a crime scene.
Lec Hrs=24 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0082 TRAFFIC STOPS
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to familiarize the student with the procedures and safety issues related to traffic stops.
Lec Hrs=24 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0083 D.U.I. TRAFFIC STOPS
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to familiarize the student with the procedures and safety issues related to driving under the influence (DUI) and traffic stops.
Lec Hrs=24 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0086 TRAFFIC CRASH INVESTIGATIONS
To introduce the student to traffic crash investigations, laws pertaining to traffic crashes and procedures for responding to a traffic crash.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0096 CRIMINAL JUSTICE OFFICER PHYS FIT TRAINING
This course is designed to introduce the student to physical conditioning, aerobic capacity, and wellness conditioning and training.
Lec Hrs=60 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0100 INTERPERSONAL SKILLS I
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to familiarize the student with human behavior, human interaction, and physically handicapped persons.
Lec Hrs=62 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0101 INTERPERSONAL SKILLS II
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training commission. This course is designed to familiarize the student with human adjustment to imprisonment, interpersonal skills, supervision techniques, preventing sexual assault.
Lec Hrs=50 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0102 CORRECTIONAL OPERATION
(0)
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training commission. This course is designed to familiarize the student with how an officer needs to possess those basic skills to perform the physical tasks required of Correctional Officers.

Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0211 CROSS-OVER CORRECTIONS TO CMS LAW ENFORCEMENT INTRO
(3)
This course is designed to provide transitioning officers a variety of introductory training topics required for the new discipline (and not previously completed by the officer). In addition, this course is mandated by the Florida Criminal justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement officer training program, effective May 11, 2005. This is a limited access course. It requires active certification and employment as State of Florida correctional officer.

Lec Hrs=94 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0212 CROSS-OVER CORRECTIONS TO LAW ENFORCEMENT
(0)
This course is designed to provide transitioning officers the firearms training (night-firing) required for the new discipline not previously completed by the officer. Qualification with the weapon is required. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

CJK0213 CROSS-OVER CORRECTIONS TO LAW ENFORCEMENT
(1)
This course is designed to provide transitioning officers the tactical applications training required for the new discipline not previously completed by the officer. This course explores the knowledge and procedures necessary for an officer engaging in various activities, to include: court process, incident command system, bombs and explosives, and crowd control. In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective May 11, 2005. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0221 CORRECTIONAL CROSS-OVER TO LAW ENFORCEMENT
(0)
This course is designed to provide transitioning officers a variety of introductory and legal training topics required for the new discipline (and not previously completed by the officer). In addition, this course is mandated by the Florida Criminal Justice Standards and Training Commission for inclusion in the Crossover from Correctional Officer to Law Enforcement Officer training program effective April 1, 2008. This is a limited access course. It requires active certification and employment as a State of Florida correctional officer.

Lec Hrs=47 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0222 CORRECTIONAL CROSS-OVER TO LAW ENFORCEMENT
(0)
This course is designed to provide transitioning officers specific communication skills required for the new discipline (and not previously completed by the officer).

Lec Hrs=56 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0223 CORRECTIONAL CROSS-OVER TO LAW ENFORCEMENT
(0)
This course is designed to provide transitioning officers specific skills related to human issues required for the new discipline (and not previously completed by the officer). These issues include, but are not limited to, crisis intervention, disability awareness, and responding to juveniles.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0255 CMS CORRECTIONS PROBATION FIREARMS
(0)
This course introduces firearms, presents the nomenclature and safety rules, and familiarizes the student with good shooting habits.

Lec Hrs=2 Lab Hrs=14 Oth Hrs=0 Fees=0.00

CJK0270 CRIMINAL JUSTICE LEGAL 1
(0)
This course is designed to provide students a foundation in the aspects of law relevant to the duties of Correction officers.

Lec Hrs=46 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0271 CORRECTIONAL PROBATION LEGAL
(1)
This course presents the structure and components of the Florida criminal justice system and the laws governing the duties of a Correctional Probation.

Lec Hrs=57 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0272 CORRECTIONAL PROBATIONAL INTERPERSONAL COMMUN SKILL
(1)
This course presents the topics of interpersonal skills, verbal and written communication, officer survival, conflict resolution, crisis intervention and suicide prevention/intervention. Emphasis is on communications.

Lec Hrs=44 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0273 CORRECTIONAL PROBATION CASELOAD MANAGEMENT
(1)
This course presents the caseload management procedures for Correctional Probation Officers.

Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0274 CORRECTIONAL PROBATION SUPERVISION
(2)
This course presents the characteristics and behaviors of people a Correctional Probation Officer must supervise and the procedures and strategies for dealing with individuals under supervision.

Lec Hrs=88 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0275 CORRECTIONAL PROBATION
INVESTIGATION (1)
This course presents the techniques needed for a Correctional Probation Officer to conduct and document successful investigations.
Lec Hrs=39 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0276 CORRECTIONAL PROBATION MANAGEMENT I (0)
This course presents the fundamentals of the electronic information systems a Correctional Probation Officer must access.
Lec Hrs=27 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0280 CRIMINAL JUSTICE OFFICER PHYSICAL FITNESS TRAINING (0)
This course is designed to introduce the student to physical conditioning, aerobic capacity, and wellness conditioning and training. It will help the student to better understand the need for a police officer to maintain physical conditioning and how an officer needs to possess those basic skills to perform the physical tasks required of criminal justice officers.
Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=52.00

CJK0281 CRIMINAL JUSTICE OFFICER PHYSICAL FIT TRAINING (1)
This course is designed to introduce the student to physical conditioning, aerobic capacity, and wellness conditioning and training. It will help the student to better understand the need for a criminal justice officer to maintain physical conditioning.
Lec Hrs=2 Lab Hrs=32 Oth Hrs=0 Fees=0.00

CJK0285 CRIMINAL JUSTICE LEGAL I (0)
The student will know the basic provisions of the U.S. Constitution and comprehend the officer's responsibility to defend and comply with the U.S. Constitution.
Lec Hrs=22 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0286 CRIMINAL JUSTICE COMMUNICATIONS (0)
The student will know the definition of note taking and the uses of notes. The student will comprehend the kinds of information to be collected and the procedures to follow in taking notes. The student will demonstrate note taking techniques in practical situations.
Lec Hrs=42 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0422 DART-FIRING STUN-GUN (0)
This course will introduce the student to the basics of both the stun-gun and the dart-firing stun-gun, and give them some fundamental knowledge of this emerging tool in criminal justice.
Lec Hrs=8 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0441C POLICE SERVICE AIDE (3)
This course, with specified co-requisites, is designed to provide students the minimum skills necessary to perform the duties of a Police Service Aide (PSA) and is approved by the Criminal Justice Standards and Training Commission as prescribed by Florida State Statute 316.640. Co-requisite: CJK0442 CJK0451
Lec Hrs=94 Lab Hrs=16 Oth Hrs=0 Fees=0.00

CJK0442 TRAFFIC ACCIDENT / CRASH INVESTIGATION (2)
This course is designed to provide students the minimum skills necessary to perform the duties of a Parking Enforcement Specialist (PES) and is approved by the Criminal Justice Standards and Training Commission as prescribed by Florida State Statute 316.640.
Lec Hrs=68 Lab Hrs=12 Oth Hrs=0 Fees=0.00

CJK0451 PARKING ENFORCEMENT SPECIALIST (0)
This course is designed to provide students the minimum skills necessary to perform the duties of a Parking Enforcement Specialist (PES) and is approved by the Criminal Justice Standards and Training Commission as prescribed by Florida State Statute 316.640.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJK0480 EMERGENCY PREPAREDNESS (0)
Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission. This course is designed to familiarize the student with techniques and procedures for handling unusual occurrences and incidents.
Lec Hrs=26 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJL1062 CONSTITUTIONAL LAW (3)
An examination of the U.S. Constitution, its amendments, and its impact on present day criminal justice practitioners. 3 hrs. Lec.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJL1100 CRIMINAL LAW (3)
Course will be concerned with the sources and elements of criminal law. Emphasis will be placed on criminal law as related to law enforcement officers with particular attention given to the rights and responsibilities of officers in enforcing various criminal laws. 3 hours of lecture.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJL1130 CRIMINAL EVIDENCE AND COURT PROCEDURES (3)
An examination of the rules governing admissibility of evidence, specifically as they affect the law enforcement officer in the processes of arrest, use of force, search and seizure, presentation and custody of evidence, testimony and court procedure. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJL1140 CORRECTIONAL LAW (3)
A course in practical law for correctional personnel. Study includes law regulating use of force, civil rights of prisoners, constitutional law, legal service, disciplinary procedures, parole and current case law.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CJL2060 CIVIL RIGHTS (3)
A survey course of the Federal Rights legislation to include the 13th through 15th Amendments of the Reconstruction
Era and the Civil Rights legislation of the 60's. Special topics include consideration of the American Disabilities Act, Age Discrimination in Employment Act, Equal Employment Opportunities Act, Equal Pay Act, Affirmative Action, and Sexual Harassment. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CLB0001 STUDENT GOVERNMENT (0)
At Broward College, the student Government (SG) is the voice of the students. Student government has many different functions including acting as the liaison between student organizations and the administration. SG is the bridge that students are always welcome to cross, which connects the faculty, staff and administration to the student body. SG researches student concerns and finds ways to resolve problems. The membership is open to any and all interested students. SG also offers various leadership opportunities in many different levels. Selected students become involved in campus, college wide, district, and state level events. The concept of teamwork is constantly practiced, and students learn conflict resolution.

Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CLB0002 STUDENT AMBASSADORS (0)
Student ambassadors promote bcc programs in the community. Broward College's Ambassadors represent bcc at area high schools, Civic and professional meetings, GED centers, and locally sponsored career and college nights throughout Broward County. Student ambassadors are eager to spread the word about academic and community enrichment programs at BC. Ambassadors range in age from 18 to over 50 and their friendships and contacts will endure long after they graduate.

Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CLB0003 PHI THETA KAPPA (0)
Phi Theta Kappa International is the acclaimed international honor society serving American two-year institutions which offer associate degree programs. To become a member of Phi Theta Kappa, one must achieve a degree cumulative grade point average of 3.5 after completing 12 credit hours of college-level course work, and paying lifetime membership dues. Participation in on- and off-campus activities is encouraged. The privileges of membership include the Phi Theta Kappa seal on diplomas, the designation 'Phi Theta Kappa' on transcripts, access to society merchandise, and the distinction of wearing the Society's stole and sash during commencement exercises.

Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CNT2001 LOCAL AREA NETWORKING (3)
This course is designed as a comprehensive study of microcomputer networking. Topics include the selection, installation, maintenance, and management of network software and hardware.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CNT3504 NETWORKING (3)
This course teaches the concepts necessary to design, deploy, integrate and administer a communications infrastructure. This course includes data communication concepts that cover telecommunications, the Internet and Internet-working principles.

COP1000C INTRODUCTION TO COMPUTER PROGRAMMING (3)
This course provides the beginning programming student with the techniques necessary to write well-documented, structured computer programs. The course is intended to emphasize the planning process using examples involving sequence, selection, and iteration. The course is designed to promote good programming practices for further study of other programming languages.

Prerequisite: MAT0028
This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

COP1334C INTRODUCTION TO C++ (3)
This course provides an introduction to computer programming design and development using the C++ language. A structured, multi-phase, program development process featuring a series of steps involving problem definition, top-down design, and formal program specification is stressed. The course is intended to provide the novice programming student with the techniques needed to develop well-documented, structured computer programs. Students who do not possess computer programming experience are strongly encouraged to complete COP1000C (Introduction to Computer Programming) before attempting this course.

Prerequisite: MAT1033 Pre or Co-requisite: CIS1000C
This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

COP1335C INTERMEDIATE C++ PROGRAMMING (3)
This course continues the study of structured programming and the C++ language begun in COP1334C. Topics will include classes, polymorphism, inheritance, streams, templates, exception handling dynamic memory allocation, and memory management. An introduction to data abstraction and data structures is also included. Prerequisite: CIS1000C, COP1334C
This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00
COP2071C DATABASE DESIGN AND PROGRAMMING USING SQL (3)
This course provides the student with a solid foundation in Relational Database Management Systems and RDBMS technology. It emphasizes an end-to-end solution, beginning with requirements and progressing through conceptual design, logical database design, physical database design, and implementation, using a RDBMS and the SQL language. It involves extensive database manipulation and querying using SQL. It also stresses transaction management concepts, data integrity constraints, and performance issues.
Prerequisite: CIS1000C, COP1334C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

COP2171C VISUAL BASIC PROGRAMMING (3)
This course teaches how to create Visual Basic based programs. Students write programs that access databases, use OLE to integrate applications, and as an OLE Server and as an add-in. This class assumes a working knowledge of Basic Programming (COP1170).
Prerequisite: COP1334C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=24.00

COP2360C C# PROGRAMMING (3)
This course teaches students how to create C# programs and gives the student a solid foundation on building applications using an object-oriented/event-driven language. Students will write programs using C# controls and their main properties, methods and events. Students will also write programs that access sequential access files and will learn basic programming structures and manipulation of arrays in C#. The class assumes a working knowledge of basic programming control structures.
Prerequisite: CIS2321C, COP1335C
Pre or Co-requisite: COP2361C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=51.00

COP2361C OBJECT-ORIENTED ANALYSIS AND DESIGN (3)
This course focuses on the object-oriented software development process, including object-oriented methodologies and workflows. Students will be able to determine the Use Cases and Domain Model of the problem domain. Create a system design supporting functional requirements. Create a system architecture supporting the nonfunctional requirements and development constraints. This course can be used for the AA degree.
Prerequisite: CIS2321C, COP1335C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=50.00

COP2800C PROGRAMMING IN JAVA (3)
This course introduces students to the JAVA Programming Language. Upon successful completion of this course, the students should be able to create Java programs that leverage the object-oriented features of the Java language, such as encapsulation, inheritance and polymorphism; use data types, arrays and other data collections; implement error-handling techniques using exception handling, create an event-driven GUI using Swing components; and implement I/O functionality to read from and write to text files.
Prerequisite: CIS2321, COP1335C
Pre or Co-requisite: COP2361C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

COP2801C JAVA SCRIPTING (3)
This course will teach students to write JavaScript that can be executed on any computer running compatible software. These programs will be created using this object-based scripting language and designed to interact over the Internet or any other similar network with an appropriate Web Browser. Students will learn JavaScript structure and syntax, how to interact with environment variables, use event handlers, perform form validation, create rollover effects and receive an overview of working with cookies. Students will conceptualize and develop interactive web sites using the full features.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

COP2821C VISUAL BASIC DEVELOPMENT (3)
This course focuses on how to create an active X control, how to create a component object model (COM), how to incorporate active X and COM components within a visual basic program, how to write visual programs that access a database, and how to incorporate Internet technologies into a visual application.
Prerequisite: COP2171C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

COP3703 DATABASE CONCEPTS (3)
This course applies a relational model approach to logical and physical data structure and data concepts and modeling. It also applies a model based on conceptual database design and implementation using current software.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

COP3847 WEB SYSTEMS AND TECHNOLOGIES (3)
Information Technology (IT) applications are increasingly web based. Web technology has grown to include a variety of businesses, academic, organizational and social applications. Diverse multi-cultural and multilingual user communities now depend on web technology. This knowledge area covers the design, implementation and testing of web based applications including related software, databases, interfaces and digital media. It also covers social, ethical and security issues arising from the web and social software.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

COP4858 INTEGRATIVE PROGRAMMING AND TECHNOLOGY (3)
Organizations typically use many disparate technologies that need to communicate and work with each other. A key component to the discipline of information technology is the integration of applications and systems. This knowledge area examines the various types of programming languages and their appropriate use. It also addresses the use of scripting languages, architectures, application programming interfaces and programming practices to facilitate the management, integration and security of the systems that support an organization.
Prerequisite: COP3847
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CPO2002 INTRODUCTION TO COMPARATIVE
GOVERNMENT (3)
This course is a survey of political systems in the developed and the underdeveloped world. Democratic, non-Democratic, unitary and Federal systems will be analyzed and contrasted. Also the European community will be examined as an example of multinational cooperation. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CPO2140 GOVERNMENT AND POLITICS OF SPAIN (3)
An introduction to the understanding of Spain's governmental process, with emphasis on the structure of Spanish politics, the constitutional framework, the working of the bureaucracy, and the role of interest groups within the context of Spain's constitutional setting. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW1001 CREATIVE WRITING I (3)
The course is structured toward producing literary fiction, poetry, dramatic forms, creative non-fiction and other original expression. Student writing will be the primary basis for critical discussion with emphasis on fundamental aspects of poetry, fiction, and/or drama, as illustrated in master writers' work and demonstrated in student work. Lectures, readings, craft analysis, discussions, exercises and workshops provide students with the opportunity to develop the craft of writing. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW1100 FICTION WRITING (3)
Lectures, readings, craft analysis, discussions, writing exercises, and workshops provide students with the opportunity to analyze fiction and practice the craft of writing fiction. The course is structured toward producing literary fiction. Student writing and master writers' works will be the primary basis for critical discussion, with an emphasis on the fundamental aspects of fiction. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW1300 POETRY WRITING (3)
Student writing as the basis for critical discussion with emphasis on analysis for the elements of poetry. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: ENC1101
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW2002 CREATIVE WRITING WORKSHOP II (3)
A continuing development of creative writing ability. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: CRW1001
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW2003 ADVANCED CREATIVE WRITING WORKSHOP (3)
A continuing development of creative writing ability. Students may work on independent writing projects. Directed independent study. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Instructor's Approval or Prerequisite: CRW2002
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CRW2005 ADVANCED CREATIVE WRITING WORKSHOP (1)
A continuing development of creative writing ability. Students may work on independent writing projects. Directed independent study. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Instructor's Approval or Prerequisite: CRW2002
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CTS106 UNIX (3)
Through the use of shell scripts, text processing, electronic mail, utilities and editors, students study the UNIX operating system to fulfill user needs in the business/scientific programming environments. This course can be used for the AA degree.
Prerequisite: COP1334C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=24.00

CTS111C LINUX+ (4)
This course provides students with the knowledge and skills necessary to effectively administer Linux workstations and servers. Students will plan, install, maintain, and troubleshoot Linux operating system services. The skills developed by students completing this course will help prepare them for the COMPTIA Linux+ certification exam.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=125.00

CTS1133C A+ ESSENTIALS (3)
This course provides students with the knowledge required to understand the fundamentals of computer technology, networking, and security, and the skills required to identify hardware, peripheral, networking, and security components.
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=125.00

CTS1134C NETWORK+ (4)
This course provides students with important knowledge and skills necessary to manage, maintain, troubleshoot, install, operate and configure basic network infrastructure; describe networking technologies; basic design principles; and adhere to wiring standards and use testing tools.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS1212C ADOBE PHOTOSHOP (3)
This Adobe course teaches students how to fully utilize the latest Adobe Photoshop image editing tool to create and manipulate images. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Adobe Photoshop. In this course students learn to paint and retouch images, use layers, support video, work with vector tools, manage digital assets, work with RAW camera files, manage color, and prepare images for output to the web. The skills developed by students completing this course will help prepare them...
for the Adobe Certified Associate certification exam.
Placement by test or Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=100.00

CTS1213C MICROSOFT SPECIALIST: WINDOWS
AND OUTLOOK (3)
This course teaches students to utilize Windows operating system to be more productive, more collaborative, and more efficient. The course covers the skills necessary to be effective at protecting, optimizing, and troubleshooting the Windows OS environment. This course also teaches students advanced skills and design concepts for employing Microsoft Outlook to create, manage and organize messages, contacts and tasks. The course includes hands-on experiences with exercises and projects. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Windows and Outlook certification exams.
Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=40.00

CTS1220C MICROSOFT SPECIALIST: WORD (3)
This course teaches students advanced skills and design concepts for employing Microsoft Word to create and organize data. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Word. This course is valuable for anyone wanting to create, customize, and organize documents by using formatting and visual content that is appropriate for the information presented. They will also learn to review, share, and secure content. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Word certification exam.
Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=50.00

CTS1225C MICROSOFT SPECIALIST: EXCEL (3)
This course teaches students advanced skills and design concepts for employing Microsoft Excel to organize and manipulate enterprise data. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Excel. This course is valuable for anyone wanting to create and manipulate data, format data and content, create and modify formulas, present data visually, and collaborate on and secure data. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Excel certification exam.
Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=50.00

CTS1230C MICROSOFT SPECIALIST: POWERPOINT (3)
This course teaches students advanced skills and design concepts for employing Microsoft PowerPoint to create and organize data. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft PowerPoint. This course is valuable for anyone wanting to be effective and efficient at creating and formatting presentation masters and templates, creating and formatting slide content, working with dynamic visual content, and collaborating on and delivering presentations. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist PowerPoint certification exam.
Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=50.00

CTS1327C MICROSOFT WINDOWS CLIENT (4)
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows client. It will also provide them with the knowledge and skills to use the IT Pro tools and productivity applications that ship with a Microsoft Windows client. The skills developed by students completing this course will help prepare them for the Microsoft Windows client certification.
Prerequisite: CTS2131C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS1347C MICROSOFT WINDOWS NETWORK INFRASTRUCTURE (4)
This course provides students with the knowledge and skills to configure and troubleshoot a Windows Server 2008 network infrastructure. Students will learn to implement and configure secure network access and implement fault tolerant storage technologies. Students will gain an understanding of the network technologies most commonly used with Windows Server and IP-enabled networks. Students will also learn how to secure servers and maintain updates compliance.
Prerequisite: CTS1134C, CTS1327C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS1343C MICROSOFT SPECIALIST: ACCESS (3)
This course teaches students advanced skills and design concepts for employing Microsoft Access to quickly retrieve and manipulate enterprise data. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Access. This course is valuable for anyone wanting to design and implement powerful database applications, including software developers, analysts, webmasters, programmers, and power users. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Access certification exam.
Prerequisite: CGS1060C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=50.00

CTS1800C ADOBE DREAMWEAVER (3)
This course teaches students how to use the Adobe Dreamweaver Integrated Development Environment. Students learn Project requirements, website usability, using rich media content, content control tools, website building techniques, collaboration and Site testing, and how to manage and maintain websites.
Prerequisite: CTS1851C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=100.00

CTS1809C MACROMEDIA FLASH (3)
This course teaches students how to produce vector-based animated and interactive Web sites using Adobe's Flash toolkit. The course will cover everything from the basic interface to advanced button design and form interaction.
Students will learn about the multimedia features in Flash, and learn how to take advantage of them.
Prerequisite: CTS1851C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=100.00

**CTS1882C CASCADING STYLE SHEETS**  
This course will help students to understand and apply Cascading Style Sheets to separate the content from the style of the web pages. Topics covered will include text styling, working with images, navigation, replacing tables with CSS, form interfaces, positioning, layout, and future techniques.
Prerequisite: CTS1851C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=100.00

**CTS1851C CERTIFIED INTERNET WEBMASTER FOUNDATIONS**  
This course is an entry-level course that provides students with baseline technical knowledge and skills of Internet, intranet, and extranet technologies. Students will gain a basic knowledge and/or competency of Internet skills and tasks in 3 core content areas: Internet Business Foundations, Site Development Foundations, and Network Technology Foundations. The skills developed by students completing this course will prepare them for the CIW Foundations certification exam. Placement test or Prerequisite: CGS1060C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=103.00

**CTS2120C SECURITY+**  
This course provides the student with an understanding of the computer, network, infrastructure, and information security issues faced by industry worldwide. Expertise necessary to combat and protect intellectual property from theft and destruction are also developed. The skills developed by students who complete this course will prepare them for the Security+ certification exam.
Prerequisite: CTS1134C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CTS2131C A+ PRACTICAL**  
This course provides students with the skills required to install, configure, upgrade, and maintain PC workstations, the Windows OS and SOHO networks, in addition the student will be able to utilize troubleshooting techniques and tools to effectively and efficiently resolve PC, OS, and network connectivity issues and implement security practices.
Prerequisite: CTS1133C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=125.00

**CTS2165C MICROSOFT ENTERPRISE DESKTOP SUPPORT**  
This Microsoft IT Academy course teaches students the skills to support end users who run Microsoft Windows and applications that are included with the operating system, such as productivity applications used in a corporate environment and Microsoft Office applications. It provides students with the knowledge and skills needed to isolate, document and resolve problems on a Windows desktop or laptop computer and a working knowledge of operating in an Active Directory domain environment. The course includes the skills needed to resolve operating system issues by telephone, email, connecting to an end user's system remotely, or by visiting an end user's desktop.
Prerequisite: CTS1327C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

**CTS2164C SOLUTION ARCHITECTURES**  
This course provides students with the knowledge and skills necessary to analyze business requirements in a given scenario and then define technical solution architectures that will optimize business results by using Microsoft development tools.
Prerequisite: CGS1100
Pre or Corequisite: CIS2321C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

**CTS2339C MICROSOFT EXCHANGE SERVER**  
This course will provide students with the knowledge and skills to install, configure, route and manage a Microsoft Exchange environment. They will also learn how to provide client access, back up and restore databases, and manage recipient objects such as mailboxes, distribution groups, and contacts. The skills developed by students completing this course will help prepare them for the Microsoft Exchange certification.
Prerequisite: CTS2345C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CTS2342C MICROSOFT WINDOWS ENTERPRISE ADMINISTRATION**  
This Microsoft IT Academy course provides students with an understanding of how to design a Windows Server Network Infrastructure that meets business and technical requirements for network services, to design Active Directory forests, domain infrastructure, sites and replication, administrative structures, group policies, and Public Key infra-structure solutions based on Windows Server to meet varying business and technical requirements.
Prerequisite: CTS2343C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CTS2343C MICROSOFT WINDOWS APPLICATION INFRASTRUCTURE**  
This Microsoft IT Academy course provides students with an understanding of migrating and deploying Windows Servers, including installation, configuration, and upgrading, and with the knowledge and skills to configure, manage, monitor, and troubleshoot a Terminal Services (TS) environment. Special emphasis is given to upgrading common server configurations and using Windows Server Deployment Solution Accelerator. Students will also learn to install, configure, maintain, and troubleshoot and Internet Information Services Web Server in Windows Server.
Prerequisite: CTS2120C CTS2346C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

**CTS2345C MICROSOFT WINDOWS ACTIVE DIRECTORY**  
This Microsoft IT Academy course provides students with the knowledge and skills to configure and troubleshoot Active Directory services on Windows Servers. It will also introduce students to Active Directory roles such as AD, DS, AD LDS, AD SC, AD RMS, and AD FS. Students will also learn how to manage access to Active Directory resources, how to configure group policy objects, how to implement security using group policies and about AD DS and DNS integration.
CTS2346C MICROSOFT WINDOWS SERVER ADMINISTRATION (4)
This Microsoft IT Academy course provides students with the knowledge and skills to implement, monitor, and maintain Windows Servers. The skills the students will learn will enable them to perform the duties of a server administrator.
Prerequisite: CTS2345C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS2360C MICROSOFT SYSTEM CENTER CONFIGURATION (4)
This course provides students with the knowledge and skills to deploy and manage software and asset using the Microsoft System Center Configuration Manager. The skills developed by students completing this course will help prepare them for the Microsoft System Center Configuration Manager certification.
Prerequisite: CTS2345C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS2361C MICROSOFT SHAREPOINT SERVER (4)
This course provides students with the knowledge and skills to plan, deploy, and maintain a Microsoft Windows SharePoint server in a production environment. The skills developed by students completing this course will help prepare them for the Configuring Microsoft Office SharePoint Server certification.
Prerequisite: CTS2345C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=150.00

CTS2383 MANAGING A SERVER NETWORK OPERATING (3)
This course provides students with the knowledge and skills necessary to install and configure a network server and perform post-installation and day-to-day administrative tasks. The course gives the student the background needed to provide technical support for network servers. This course is taught using a networking operating dictated by industry conditions. When taught using the Windows 2008 platform this course will assist the student in preparing for the related Microsoft certification examination.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CTS2402C BUSINESS DEVELOPMENT USING VISUAL BASIC (3)
This course will teach visual basic programmers, who currently build desktop applications and access corporate databases, the basics of how to build three tiers client/server solutions. Utilization of the Application Architecture Model. Utilize the VB programming system to build COMM, DLLs and implement them in a multi-user environment using Transaction Server. Utilize MTS to address application infrastructure issues associated with building server-side COM objects that are used by the client. Create COM objects that use MTS services to participate in transactions and that use security. Utilize ActiveX Data Objects (ADO) from the middle tier to access data and invoke business and data services implemented in SQL. Implement business and data services in SQL Server database through the use of stored procedures. Apply basic debugging, error handling, and security techniques in a three-tier application.
Prerequisite: COP2811C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

CTS2403C ACCESS VBA PROGRAMMING (3)
Provides students with the comprehensive knowledge and skills necessary to implement application programming concepts and procedures and to apply these skills to design, develop, and implement solutions based on Access for Windows.
Prerequisite: CGS1540C COP2171C
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=50.00

CTS2420C MICROSOFT: .NET FOUNDATIONS (3)
In this Microsoft IT Academy course, student will develop the knowledge and skills to program Microsoft .NET Framework applications. At course completion, students will develop applications that use type and standard contracts, manage common data by using collections, deploy and configure assemblies, monitor and debug applications, read and write files, and serialize data. Students will also use System.Drawing and System, globalization, encrypt, and hash data using cryptography, secure code, describe and use reflection, metadata, emitting objects services, threading, and application domains. This course will help students prepare for the Microsoft .NET Framework - Application Development Foundation certification.
Prerequisite: COP2360C, COP2361C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=75.00

CTS2423C MICROSOFT: .NET WEB APPLICATION DEVELOPMENT (3)
In this Microsoft IT Academy course, students will develop the knowledge and skills to program Microsoft.NET Framework web applications. At course completion, students will have knowledge of ASP.NET and develop and deploy web applications by using either Visual Basic or C#. Students will also access data by using Microsoft ADO.NET and built-in data access tools. This course will help students prepare for the Microsoft .NET MCTS Foundation certification.
Prerequisite: COP2071C, CTS2420C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=75.00

CTS2434C PROGRAMMING A MICROSOFT SQL SERVER (4)
This course provides students with the technical skills required to program a database solution by using Microsoft SQL Server. The skills developed by students completing this course will help prepare them for the Microsoft Programming a SQL Server Database certification exam.
Prerequisite: CTS1432C
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=150.00

CTS2437C ADMINISTERING A MICROSOFT SQL SERVER DATABASE (4)
This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server. The skills developed by students completing this course will help prepare them for the Microsoft Administrating a SQL Server certification exam.
Prerequisite: CTS1328C CTS1432C
In this class, students will build and test interactive internet applications. Working in a graphical user interface (GUI) environment, students will learn how to customize forms with user input items such as check boxes, list items, and radio groups. They will also learn how to modify data access by creating event-related triggers. This class is designed to prepare students for one of the Oracle Application Developer certification exams.
Prerequisite: CTS2445C
Lec Hrs=56 Lab Hrs=8 Oth Hrs=0 Fees=90.00

CTS2461C MICROSOFT C# DISTRIBUTED APPLICATION

This Microsoft IT Academy course teaches students development of distributed applications using the C# programming language and the .Net framework. The skills developed in this class will help prepare students for MCTS certification.
Prerequisite: CTS2420C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=75.00

CTS2462C MICROSOFT C# WINDOWS APPLICATION DEVELOPMENT

This Microsoft IT Academy course teaches students how to develop C# Windows applications in the .Net framework. The skills developed in this class will help prepare students for MCTS certification.
Prerequisite: CTS2420C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=75.00

CTS2464C SUN: ADVANCED JAVA PROGRAMMING

This course is designed to prepare students for the Sun Certified Programmer for Java certification. Upon successful completion of this course, the students should be proficient in creating event-driven GUIs using Swing components, creating multi-threaded programs and creating simple Transmission Control Protocol/Internet Protocol (TCP/IP) networked client that communicates through a server through sockets.
Prerequisite: COP2361C COP2800C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=125.00

CTS2465C SUN: ADVANCED JAVA DEVELOPMENT

This course is designed to help prepare students for the Sun Certified Developer certification. Upon successful completion of this course, students should be able to implement a program from the ground up that could be used in a commercial intranet application and will develop classes to connect programs to SQL database systems using the core aspects of the Java Database Connectivity (JDBC) application programming interface (API). Two-tier and two-tier Java technology applications will be created, as well as multithreaded servers and remote objects using Java Remote Method Invocation (Java RMI).
Prerequisite: COP2071C CTS2464C
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=51.00

CTS2803C FLASH PROGRAMMING

This course covers advanced Adobe Flash concepts utilizing the ActionScript language. Topics will include detecting client browser and plug-ins, user interface components, working with audio and video, loading data, sending data, and working with Flash Remoting and web services. Concepts are applied through team and individual projects using the latest version of Adobe Flash.
Prerequisite: COP1334C CTS1801C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=103.00
CTS2852C CLIENT-SIDE SCRIPTING (3)
This course teaches developers how to use the features of the JavaScript language and design client-side, platform independent solutions. Students learn how to write JavaScript programs, script for the JavaScript object model, control program flow, validate forms. This course teaches students how to conduct business online using both business-to-business and business-to-consumer e-commerce models. Students will also explore the technological issues associated with constructing an electronic-commerce Web site. Students will examine strategies and products available for building electronic-commerce sites, examine how sites are managed, and explore how they can complement an existing business infrastructure. This course, in combination with CTS2855C, helps animate images, target frames, and create cookies. Students will also understand and use the most popular applications of JavaScript.
Prerequisite: COP1334C, CTS1851C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=100.00

CTS2854 CIW: E-COMMERCE STRATEGIES AND PRACTICES I (3)
This course teaches students how to conduct business online using both business-to-business and business-to-consumer E-Commerce models. Students will also explore the technological issues associated with constructing an electronic-commerce web site. Students will examine strategies and products available for building electronic-commerce sites, examine how sites are managed, and explore infrastructure. This course, in combination to CTS2855C, helps prepare students for the CIW E-Commerce Strategies and Practices certification exam.
Prerequisite: CTS1851C
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

CTS2855C CIW: E-COMMERCE STRATEGIES AND PRACTICES II (4)
This course allows students to explore real world scenarios as an E-Commerce Designer would and focuses on standards, technologies and practices for both business-to-business and business-to-consumer e-commerce models. Students will understand and facilitate relationships among marketing, promotion, customer service, user interaction, purchasing methods, and secure transactions by using SSL and set, payment gateways, inventory control, shopping and order information and site performance testing and evaluation. This course, in combination with CTS2854, helps prepare students for the CIW E-Commerce Strategies and Practices certification exam.
Prerequisite: CTS1854
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=100.00

CTS2857C SERVER-SIDE SCRIPTING (3)
This course will help students understand and utilize Server Side Scripting technology. Students will work with Server Side Scripting to create Internet-based applications. Students will learn to connect to databases, work with files, extract data from HTML forms, and how to build secure applications.
Prerequisite: COP1334C, CTS1851C
Lec Hrs=36 Lab Hrs=12 Oth Hrs=0 Fees=0.00

CVT1200 CARDIOPULMONARY PHARMACOLOGY (3)
This course provides an overview of drugs related to the cardiopulmonary system with special emphasis on the drugs used to treat cardiac and pulmonary patients.
Prerequisite: RET1485
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DAAI100 BEGINNING MODERN DANCE I (2)
Basic modern dance technique, exercises, and choreography are used to achieve physical objectives, to increase artistic self awareness and to extend cultural enrichment. Coeducational. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

DAAI101 MODERN DANCE II (2)
A continuation of DAAI100. Further development of modern dance techniques with an emphasis vocabulary, alignment, movement phrasing, and rhythm. Participation in semester dance concert required. Coeducational. Permission of instructor or Prerequisite: DAAI100
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

DAAI501 JAZZ DANCE II (2)
A course in jazz technique with emphasis on various jazz styles and performance. Includes warm-up, stretch and strengthening, Centre exercises, and intermediate level jazz dance combinations. Coeducational. Permission of Instructor.
This course can be used for the AA degree.
Prerequisite: DAAI504
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

DAAI504 JAZZ DANCE I (2)
This is a course in Jazz technique. Included are warm-up, stretch and strengthening, centre exercises, and basic jazz combinations. Coeducational.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees =0.00

DAAI680 DANCE REPERTORY (1)
Participation as a dancer/performer in dance works of ballet, jazz, and modern vocabularies. Works include those of dance faculty, guest artists, as well as student choreography. Coeducational. May be repeated for credit.
Corequisite: Student must be enrolled in at least one BC dance technique class.
Lec Hrs=0 lab Grs=32 Oth Hrs=0 Fees=0.00

DAA2102 MODERN DANCE III (2)
A continuation of DAAI1101 with an emphasis on advanced movement phrases and combinations necessary to perform modern dance repertoire. Further emphasis will be placed on the development of the students' style and performance quality. Coeducational. May be repeated for credit.
Prerequisite: Permission of instructor or Prerequisite: DAAI1101
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

DAA2220 POINTE I (1)
This course is an introduction to the theory and practice of pointe work for the ballet class. Students will learn the history and structure of pointe shoes, proper fit and maintenance, and will develop strength, coordination and movement quality through exercises and performance. Prerequisite: DAA2282 or permission of the instructor. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

DEA0025 PRE CLINICAL
Designed to orient the student to the dental office and the use and sterilization of all instruments and equipment used in the practice of dentistry. Special fee charged. 4 hrs. Lec. Term I Instructor's Approval or Pre or Corequisite: DEA0025L DES0103 DES0844

Lec Hrs=60 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEA0025L PRECLINICAL LABORATORY
Laboratory/clinical portion of DEA0025. Provides hands-on instruction of use and sterilization of all instruments and equipment used in the practice of dentistry. Special fee charged. 8 hrs. Lab./Clinical. Term I. Instructor approval or Pre or Corequisite: DEA0025, DES0103, DES0844

Lec Hrs=0 Lab Hrs=0 Oth Hrs=120 Fees=128.68

DEA0150 INTRODUCTION TO DENTISTRY
An overview of dentistry and the dental assisting profession including its history, ethical and legal aspects, duties and responsibilities of the dental health team, professional organizations, and proper conduct and grooming of the dental assistant. 2 hours of Lecture. Term I. Instructor approval or Corequisite: DEA0025

Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEA0205 DEN CLINICAL
Pre or Corequisite: DEA0205, DES0205

Pre or Corequisite: DES0831 DES0831L

Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEA0130 ALLIED DENTAL THEORY
A course designed to provide knowledge of the principles of dental hygiene with a detailed study of instrumentation. The course includes data collection and mastery of beginning techniques in dental care.

Pre or Corequisite: DEH1002L, DEH2400, DEH2840L

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH1002 PRE-CLINICAL DENTAL HYGIENE I
A course designed to provide knowledge of the principles of dental hygiene with a detailed study of instrumentation. The course includes data collection and mastery of beginning techniques in dental care.

Pre or Corequisite: DEH1002L, DEH2400, DEH2840L

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH1002L PRE-CLINICAL DENTAL HYGIENE I LAB
The laboratory portion of this course is designed to provide hands-on instruction in the application of dental hygiene procedures with a detailed study of instrumentation. The
course includes data collection and mastery of beginning techniques in dental patient care. 
Pre or Corequisite: DEH1002, DEH2400, DEH2840L  
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=80.68

DEH1130 ORAL HISTOLOGY AND EMBRYOLOGY (2) 
This course studies the embryonic development and the histology of the components of the oral cavity. This includes a comprehensive study of the cells and tissues of the oral cavity. 
Prerequisite: DEH1602  
Pre or Corequisite: DEH1802, DEH1802L, DES1050  
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH1602 PERIODONTOLOGY (3) 
This course presents the etiology and classification of periodontal disease and principles of periodontia pertinent to dental hygiene practice. Principles of occlusion and periodontal surgery techniques are discussed through the use of case presentations. 
Prerequisite: DEH1800, DEH1800L, DEH2300  
Pre or Co-requisite: DEH1802, DEH1802L  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH1602L PERIODONTOLOGY LAB (1) 
DEH1602L encompasses a continuation of learning current periodontal trends in the dental office. This laboratory provides the student with hands on activities to insure effective patient treatment including phase microscopy, ultrasonic instrumentation, desensitizing agents, Soft Tissue Management, chemotherapeutic agents, advanced periodontal assessment, therapy and treatment procedures. 
Prerequisite: DEH1800, DEH2300  
Pre or Co-requisite: DEH1130, DEH1602, DEH1800L, DEH1802, DEH1802L  
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=86.68

DEH1800 DENTAL HYGIENE I (2) 
This course provides instruction on removal of hard and soft deposits, treatment planning, preventive procedures, care of instruments, pre and post operative procedures, and dental hygiene diagnosis. 
Prerequisite: DEH1002 DEH1002L DEH2400  
Pre or Corequisite: DEH1800L DEH2300 DEH2840L  
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH1800L DENTAL HYGIENE I CLINIC (2) 
This course will provide clinical experience comprehensive patient care. Emphasis is placed on treatment planning and dental hygiene assessment techniques. 
Prerequisite: DEH1002 DEH1002L DEH2400  
Pre or Corequisite: DEH1800 DEH2300 DEH2840L  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=96 Fees=165.68

DEH1802 DENTAL HYGIENE II (4) 
A course designed to provide further knowledge in the application of dental hygiene procedures. This includes information on treatment planning, periodontal charting, ultrasonic scaling and comprehensive dental hygiene care. 
Prerequisite: DEH1800 DEH1800L DEH2300  
Pre or Corequisite: DEH1802L  
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00
and dental hygiene practice rules and regulations for the state of Florida.
Prerequisite: DEH1802 DEH1802L
Pre or Corequisite: DEH2806L.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEH2806L DENTAL HYGIENE IV CLINIC (4)
This course provides continuation of clinical experience with patients, developing previously learned skills and knowledge. The emphasis is placed on advanced instrumentation and patient management skills necessary to treat the more advanced patients.
Prerequisite: DEH2701, DEH2804L.
Pre or Corequisite: DEH2701L DEH2806
Lec Hrs=0 Lab Hrs=0 Oth Hrs=192 Fees=179.68

DEH2840L ADVANCED DENTAL TECHNOLOGY LAB (1)
This laboratory course is designed to provide the dental hygiene students with basic concepts of computer technology and dental software used in the current practice of dentistry. The course will focus on advanced technologies which include dental software programs, intraoral camera, microscope, digital radiography, clinical assessments and practice management. Dental hygiene students will get hands on opportunities all software programs assuring their future success.
Pre or Corequisite: DEH1002 DEH1002L DEH1800 DEH1800L DEH2300 DEH2400
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=116.68

DEH2944L ADVANCED DENTAL HYGIENE CLINIC (1)
This course is designed for students who have successfully graduated from Broward College's Dental Hygiene Program to maintain and/or update clinical skills prior to taking the Florida State Board Clinical Examination.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=76 Fees=51.68

DEP2003 DEVELOPMENTAL PSYCH I: CHILD PSYCHOLOGY (3)
Study of the concepts and principles of growth and development in infancy and childhood. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2004 DEVELOPMENTAL PSYCHOLOGY (3)
This is a developmental psychology course that considers human growth from conception to death. This course covers the physical, cognitive, and psycho-social process of human development. It is designed to give a general overview of the developmental processes. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2302 DEVELOPMENTAL PSYCH II: ADOLESCENT & YOUNG ADULT (3)
The personal, social and developmental aspects of adolescence and early adulthood are reviewed in this course. A focus is placed upon the research dealing with the characteristic problems and adjustments of this life stage.
Prerequisite: PSY2012

This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2005 DENTAL RADIOGRAPHY (1)
The study of head and neck anatomy with emphasis placed on the structure, morphology, and function of the primary and permanent human dentitions. 3 hrs. Lec. Term I.
Instructor's approval or
Pre or Corequisite: DEA0025 DES0205 DES0830
Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2005L DENTAL RADIOGRAPHY LAB (2)
Laboratory portion of DEP2005. Proper techniques for exposing, processing and mounting of radiographs are included. 4 hrs. Lab. Term I.
Instructor's approval or
Corequisite: DES0103L
Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2006 BASIC ANATOMY AND PHYSIOLOGY (3)
A basic anatomy and physiology course designed specifically to meet the needs of dental assisting students. Emphasis will be placed on the human body structure, functions of its components and associated diseases which affect the total care of the dental patient.
Prerequisite: DEA0025 DES0021
Pre or Corequisite: DES0831 DES0831L
Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2010 DENTAL OFFICE MANAGEMENT (1)
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2021 DENTAL ANATOMY AND PHYSIOLOGY (1)
The study of head and neck anatomy with emphasis placed on the structure, morphology, and function of the primary and permanent human dentitions. 3 hrs. Lec. Term I.
Instructor's approval or
Pre or Corequisite: DEA0025 DES0205 DES0830
Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2030 DENTAL ANATOMY AND PHYSIOLOGY LAB (1)
Laboratory portion of DES0205. Proper manipulation and designed application in the practice of dentistry. 2 hrs. lec. Term I.
Instructor's approval or
Corequisite: DES0103L
Lec Hrs=35 Lab Hrs=45 Oth Hrs=0 Fees=127.68

DEP2035 DENTAL MATERIALS LAB (1)
Laboratory portion of DES0100. Proper manipulation and designed application in the practice of dentistry. Projects demonstrating proficiency in the technical applications and proper manipulation of specified dental materials will be required. Special fee charged. Instructors approval or
Pre or Corequisite: DEH2701L DEH2806
Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2040 BASIC ANATOMY AND PHYSIOLOGY (1)
A basic anatomy and physiology course designed specifically to meet the needs of dental assisting students. Emphasis will be placed on the human body structure, functions of its components and associated diseases which affect the total care of the dental patient.
Prerequisite: DEA0025 DES0021
Pre or Corequisite: DES0831 DES0831L
Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DEP2051 DENTAL OFFICE MANAGEMENT (1)
The study of efficient dental office management. Basic concepts to be presented will include telephone etiquette and
communication. Guidelines for better interpersonal relations, methods for effective appointment control, dental bookkeeping systems and practices, business writing techniques, collection and billing, filing of patients records and procedures for tax and health insurance forms. 2 hrs. Lec. Term II. Instructor approval or Prerequisite: DEA0000 DEA0025
Pre or Corequisite: DES0801
Lec Hrs=39 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DES0801 CLINICAL PROCEDURES I (1)
Lecture series acquaints the student with the necessary background material and assisting procedures involved in each dental specialty. Special fee charged. 1 hr Lec Term II. Instructor's approval or Prerequisite: DEA0025 DEA0025L. Pre or Corequisite: DES0801L
Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DES0801L CLINICAL PROCEDURES I LAB (5)
Practicum phase provides the opportunity for each student to receive closely supervised individual instruction in all phases of chairside assisting. Special fee charged. 12 hrs. Lab. Term II.
Instructor's approval or Prerequisite: DEA0025, DEA0025L. Corequisite: DES0801L
Lec Hrs=0 Lab Hrs=0 Oth Hrs=165 Fees=174.68

DES0802 CLINICAL PROCEDURES II (1)
Practicum phase is a continuation of DES0801 with the addition of a supervised externship program utilizing dental offices and public health facilities in the community. Lecture demonstration series focuses on selected dental topics pertaining to effective dental assisting and the additional duties permitted by rules and regulations of the Florida State Board of Dentistry. 30 hrs. minimum per week. Term III, Session II.
Instructor's approval or Prerequisite: DEA0025 DEA0025L DES0801 DES0801L. Corequisite: DES0802L
Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=51.68

DES0802L CLINICAL PROCEDURES II LABORATORY (4)
Practicum phase is a continuation of DES0801L with the addition of a supervised externship utilizing dental offices and public health facilities in the community. Special fee charged. Field experience. 30 hrs. Minimum per week. Term III, Session II.
Instructor's approval or Prerequisite: DEA0025 DEA0025L DES0801 DES0801L. Corequisite: DES0802L
Lec Hrs=0 Lab Hrs=0 Oth Hrs=135 Fees=51.68

DES0830 EXPANDED FUNCTIONS I (2)
The course is designed to provide the basic knowledge and clinical practice necessary for the dental assisting student to perform the expanded functions permitted by the rules and regulations of the Florida State Board of Dentistry. Instructors approval or
Pre or Corequisite: DEA0025 DEA0025L
Lec Hrs=60 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DES0831 EXPANDED FUNCTIONS II (1)
The course is designed to be a continuation of dental auxiliary expanded functions I. It will provide the basic knowledge necessary to perform the more complex expanded functions permitted by the rules and regulations of Florida State Board of Dentistry. 1 hr. lec. Term II. Instructor approval or
Prequisite: DEA0025 DEA0025L DES0830
Pre or Corequisite: DES0801 DES0801L DES0831L
Lec Hrs=30 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DES0831L EXPANDED FUNCTION II LAB (2)
This course is designed to be a continuation of dental auxiliary expanded functions I. It will provide the clinical practice necessary to perform the more complex expanded functions permitted by the rules and regulations of Florida State Board of Dentistry. Special fee charged. 3 hrs. lab. Term II Instructors approval or
Pre or Corequisite: DEA0025, DEA0025L, DES0830
Pre or Corequisite: DES0801, DES0801L, DES0831
Lec Hrs=0 Lab Hrs=60 Oth Hrs=0 Fees=168.68

DES0844 PREVENTIVE DENTISTRY (1)
Emphasis is placed on the development of a plaque control program to meet individual patient needs. Materials on methods of tooth brushing, supplementary aids for oral physiotherapy and the use of fluorides, and nutritional counseling in preventive dentistry will be presented. Instructor approval or
Pre or Corequisite: DEA0025
Lec Hrs=40 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DES0850 PAIN CONTROL AND DENTAL ANESTHESIA (1)
This course provides a study of agents used in dentistry for local anesthesia and pain control.
Prerequisite: DEH1002 DEH1002L DEH1800 DEH1800L DEH2300 DEH2400
Pre or Corequisite: DEH1130 DEH1802 DEH1802L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DIG2100C WEB DEVELOPMENT I (3)
The student will learn the basics of using Browsers to view web sites, create a web site and will progress through the processes of analysis, design, development, and implementation of complete web sites using HTML, XHTML, XML language with text editors. This course includes Web Programming with HTML, XHTML, XML, with emphasis on CSS on layout and structure of websites, hyperlinks, multimedia, forms, tables, testing, maintenance and uploading web sites to servers applying good web design and web site usability.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=25.00

DIG2101C WEB DEVELOPMENT II USING DREAMWEAVER (3)
This course uses Adobe Dreamweaver software to create websites importing Flash and video movies and different disciplinary content. Students will explore the pre-production, layout, structure, and Internet Services Provider (ISP)of websites. Students will test and debug their websites from your host ISP. Students should have complete knowledge of graphics and XHTML
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=60.00
DIG2109C DIGITAL PUBLISHING WITH INDESIGN (3)
This course is designed to teach desktop publishing using Adobe InDesign with emphasis on typography and desktop publishing techniques. Student will learn to layout and design documents with visual impact. Effective use of graphics, color, print separations, export to PDF, and preflight topics as they are used with desktop publishing are covered.
Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=0.00

DIG2115C DIGITAL IMAGING FUNDAMENTALS USING PHOTOSHOP (3)
This course uses Adobe Photoshop software to create images for digital media applications. Students will learn how to create, edit, and manipulate graphics. Color theory, resolution, special effects, output, and design will be covered.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=50.00

DIG2116C DIGITAL IMAGING ADVANCED (3)
The student will learn the advanced image processing techniques to prepare images for various output venues for web and multimedia. Multimedia and web developers use sophisticated graphic software (Fireworks and Photoshop or other similar software) to create interactive and stunning visuals that are easily integrated into dynamic multimedia and web pages. Students will learn how to create graphics with vector and bitmap images, apply special effects, build buttons, rollovers, animated gifs, and image maps, compare graphic formats, optimize web graphics, and palettes. Projects focus on resolution, color management including palettes and bit depth, optimization, image and texture creation, alpha channels for compositing, and special effects. Industry standard software will be used including Photoshop and Fireworks.
Prerequisite: DIG2115C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

DIG2332C DIGITAL ART & DESIGN WITH ILLUSTRATOR (3)
This course provides a sound theoretical introduction to the concepts, principles, and techniques of digital art and design. Explores the use of the computer as an art production and drawing tool using drawing and illustration software such as Adobe Illustrator to create and generate visuals. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=28.00

DIG2280C DIGITAL VIDEO/AUDIO EDITING (3)
This course is an introduction to video/audio production for digital media/multimedia. Students will gain an in-depth knowledge and skills needed for video production to include hands-on experience in videography and video/audio editing for the creation of video/audio projects to include but not limited to documentaries/music videos/storytelling and commercials/public service announcements. Software used: the Adobe Production Suite including Premiere Pro, SoundBooth, Audition and Encore.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=50.00

DIG2292C DIGITAL POST PRODUCTION WITH AFTER EFFECTS (3)
This course focuses on digital post-production used for film, animation, video, digital media, and the web. Using Adobe After Effects students integrate both technical and aesthetic, 2d graphics, 3d models and animations, and background elements in projects. Students will become familiar with match-moving and compositing techniques.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=28.00

DIG2300C DIGITAL ANIMATION USING DIRECTOR (3)
An introduction to two-dimensional animation concepts and techniques using computer software applications. Stresses the basics of moving imagery and covers storyboarding, scripting, model sheets, backgrounds, surfaces and lines of action.
Prerequisite: DIG2115C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

DIG2302C INTRODUCTION TO 3-D ANIMATION (3)
This course covers 3-D modeling, mapping, and rendering. Students will also learn techniques used in moving images and simulations as well as applying lighting and material to 3-D objects.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=65.00

DIG2311C FUNDAMENTAL OF DIGITAL MEDIA USING FLASH ANIMATION (3)
Web developers use Flash (or another animation tool) to create beautiful, resizable, and extremely small and compact navigation interfaces, technical illustrations, long-form animations, and dazzling effects for web sites and other Web-enabled devices (such as WebTV). Students will create graphics and animations using drawing tools or imported vector artwork; animate that artwork; and make interactive movies.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=5.00

DIG2360C ADVANCED WEB ANIMATION WITH FLASH (3)
This course will teach students to write ActionScript that can be executed on any computer running compatible software. These programs will be created using Object-Based Scripting Language and designed to interact over the internet or any other similar network with an appropriate Web Browser. Students will learn ActionScript structure and syntax, how to interact with environment variables, use event handlers, functions, and methods and receive an overview of working with Object-Oriented methodologies. Students will conceptualize and develop interactive websites and games using the full features of ActionScript.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=50.00

DIG2500C MULTIMEDIA AUTHORSING (3)
This course concentrates on entry-level skills in creating and implementing basic multimedia applications. The topics are covered in both theory and practice (hands-on). The software and hardware used in current industry-standard multimedia are covered in detail. Applications include multimedia design, authoring, and product delivery. The student uses many other feeder programs to complete his/her projects. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=28.00
DIG2560 PLANNING & MANAGEMENT OF DIGITAL MEDIA (3)
This course (recommended to take concurrently with Internship in Digital Media) will teach the student the theory necessary to manage projects from visualization to completion. The student will learn how to visualize, schedule, budget, procure, and evaluate resources for digital media.
Pre or Corequisite: DIG2940
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DIG2580C DIGITAL MEDIA PORTFOLIO (3)
This is a capstone course intended for students to apply knowledge gained to prepare digital print and PDF portfolios with effective design. The student will produce a portfolio to show prospective employers. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=28.00

DIG2940 INTERNSHIP IN DIGITAL MEDIA (4)
An Internship in Digital Media will provide the student with practical work experience in the field. In addition the student will produce an e-portfolio and resume to present to potential employers. The student will work a minimum of 100 hours.
Prerequisite: DIG2101C, DIG2115C, DIG2500C
Lec Hrs=24 Lab Hrs=0 Oth Hrs=0 Fees=0.00

DSC1002 TERRORISM AND DOMESTIC SECURITY (3)
A study of domestic and international terrorism as it relates to domestic security. Topics include terrorist organizations and motivations, investigating terrorism threats, conducting vulnerability assessments of potential terrorist targets, and the role of government agencies in response to a terrorist incident and recovery afterwards. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EAP0100C LISTENING/SPEAKING I (3)
A beginning level listening and speaking course. Students develop the ability to understand and respond appropriately to simple phrases and questions. Prerequisite: Through placement and/or department recommendation.
Lec Hrs=48 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0120C READING I (3)
This is a level 100 beginning ESL reading course designed for students in English for Academic Purposes (EAP) programs. It emphasizes vocabulary and comprehension on a basic level. Placement in EAP0120C is determined by assessment tests and/or referral. Students must earn a “C” or higher to proceed to EAP0220C.
Lec Hrs=48 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0185C GRAMMAR/WRITING I (6)
A low-beginning level combined skills course for speakers of other languages designed principally to guide the students to the development of basic grammar and basic writing structures as applied to academic English. Students will develop writing skills in the context of guided discourse on personal topics with an emphasis on logical thought and mechanics. The requirement to move to the next level (EAP0285C) is a “C” or higher. With a “D” or “F”, a student must repeat EAP0185C.
Prerequisite: Through placement and/or department recommendation.
Lec Hrs=56 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0200C LISTENING/SPEAKING II (3)
A high beginning level listening and speaking course. Students continue to develop the ability to understand frequently used words in oral contexts and understand and appropriately respond to simple phrases and questions. Prerequisite: Through placement and/or department recommendation.
Prerequisite: EAP0100C
Lec Hrs=48 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0220C READING II (3)
This is a level 200 high beginning ESL reading course designed for students in English for Academic Purposes (EAP) programs. It emphasizes vocabulary and comprehension on a basic level. Placement in EAP0220C is determined by successful completion of EAP0120C (a grade of C or higher) or assessment tests and/or referral. Students must earn a “C” or higher to proceed to EAP0320C.
Prerequisite: EAP0120C
Lec Hrs=48 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0285C GRAMMAR/WRITING II (6)
A high-beginning level combined skills course for speakers of other languages designed principally to guide the students to the development of basic grammar and writing structures as applied to academic English. Students will develop writing skills in the context of guided discourse on personal topics with an emphasis on logical thought and mechanics. The requirement to move to the next level (EAP0385C) is a “C” or higher. With a “D” or “F”, a student must repeat EAP0285C.
Prerequisite: Placement by entrance score and/or department recommendation.
Prerequisite: EAP0185C
Lec Hrs=56 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0300C LISTENING AND SPEAKING III (3)
A course designed to help low intermediate-level ESL students develop speaking and listening skills. Students develop speaking and listening skills necessary for participating in classroom discussion with an emphasis on clarification through wording and asking questions. With a “D” or an “F”, a student must repeat EAP0300C. Student fee charged.
Prerequisite: EAP0200C
Lec Hrs=48 Lab Hrs=13 Oth Hrs=0 Fees=20.00

EAP0320C READING III (3)
This is a level 300, low intermediate-level ESL reading course designed for students in English for Academic Purposes (EAP) programs. It emphasizes vocabulary and comprehension on an intermediate level. Placement in EAP0320C is determined by successful completion of EAP0220C (a grade of C or higher) or assessment tests
This is an advanced composition course in English for speakers of other languages. Students are given intensive practice in the writing of the multi-paragraph essay for the various modes. Emphasis is given to clear and logical development of ideas. Students apply advanced grammar skills and precise vocabulary usage to essay writing. With a D or an F, a student must repeat EAP1640C. Special fee charged. This course can be used for the AA degree.

**ECO2013 PRINCIPLES OF MACROECONOMICS**

An introductory course in macroeconomic principles covering basic economic problems and concepts. Topics discussed and analyzed include basic economic problems of unemployment and inflation. Students will recognize the role of households, businesses and governments in the market economy and in their own lives. This is a writing credit course. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**ECO2023 PRINCIPLES OF MICROECONOMICS**

An introductory course stressing microeconomic theories. Topics studied include the theory and application of supply and demand elasticity; theory of consumer demand, utility, production and cost theory including law of diminishing returns; the firm’s profit-maximizing behaviors under market models ranging from pure competition to pure monopoly; the theory of income distribution; comparative advantage, trade policies exchange rates, balance of payments, and other international issues. This is a writing credit course. Prerequisite: Completion of prep reading obligation. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**ECO2220 MONEY AND BANKING**

A general survey of the economies of money and banking covering the evolution, nature and functions of money; the nature of banking and its regulation; monetary standards; structure and functions of the Federal Reserve System; monetary policy, monetary theory and the price level; and the role of banking and money in international finance. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Prerequisite: ECO2013

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**ECS2390 THE ECONOMY OF SPAIN**

An analysis of the Spanish economic system covering the historical development in the public and private sectors; agriculture and industry; and foreign trade relations. Only offered in conjunction with the Semester-In-Spain program. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**EDF1005 INTRODUCTION TO THE TEACHING PROFESSION**

This is a survey course including historical, sociological, and philosophical foundations of education, governance and finance of education, educational policies, legal moral and
ethic issues and the professionalism of teaching. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. Students are required to complete a minimum of 15 hours of field experience in a K-12 setting. The field experience should be performed at actual schools or similar settings and not via virtual modes of film or Internet. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDF2070 PERSPECTIVES IN EDUCATION (3)
A study of the principles of American education. Emphasis is placed on the historical, philosophical, sociological, and legal foundations of education in America and their impact on curriculum development, learning, and the teaching profession. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDF2085 INTRO TO DIVERSITY & EXCEPTIONALITIES FOR EDUCATION (3)
Designed for the prospective educator, this course provides the opportunity to explore issues of diversity, including an understanding of the influence of culture, socioeconomic status, ethnicity/race, gender, religion, exceptionality, language, and age upon the educational experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and Professional Educator Competencies. A minimum of 15 hours of field-based experience is required working with diverse populations of children in schools or similar settings that are not virtual. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDF3280 INSTRUCTIONAL STRATEGIES (3)
This course prepares participants to become proficient in planning, organizing, and implementing instructional strategies for the contemporary PK-12 classroom. A variety of research-validated instructional strategies are reinforced, including those that support constructivist approaches to classroom organization and student learning. Participants will learn to identify, deliver, and improve instructional strategies that are most appropriate in specific circumstances.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDF4430 EDUCATIONAL TESTS AND MEASUREMENTS (3)
This course helps Education majors develop a philosophy of assessment and understand how a variety of measures combine to provide an accurate picture of student progress and achievement in the current multicultural classroom, develop knowledge and skills necessary to measure and assess learner progress effectively and develop actual teacher assessment skills and acquire skills in and perspectives on traditional and alternative assessment strategies. Topics include the basic principles of measurement, formative and summative assessment strategies, test construction, performance assessments, reading and interpreting data from state and standardized achievement tests, and fairness in accommodating diverse learners.
Prerequisite: EDF3280
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

EDF4930 SPECIAL TOPICS IN TEACHER EDUCATION (1)
This course focuses on current and emerging issues in teacher education. Its format and topic will vary by semester.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDG2049 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student’s field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDG4140 CLASSROOM MANAGEMENT (3)
This course provides an identification and knowledge of classroom management and communication theories, strategies, and concerns. Emphasis will be placed on Behavior Management, Discipline and Reward Strategies, Managing Special Needs Pre-professional educators, Managing Diverse Cultures, Establishing Rapport and Credibility, Effective Communications Strategies, and Legal and Safety Issues as they apply and relate to the classroom setting.
Prerequisite: EDF3280
Pre or Co-requisite: RED3352
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

EDP2002 EDUCATIONAL PSYCHOLOGY (3)
This course reviews psychological principles relevant to effective teaching and learning. Stage theories will be used to address issues of pupil variability. The course will enable students to design and use objectives. Units on instruction will include behavioral, information processing, humanistic, and cognitive theories. Finally, measurement and evaluation, as well as classroom management, will be addressed. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EDP4004 PRINCIPLES OF EDUCATIONAL PSYCHOLOGY (3)
This course provides a foundation in educational psychology and its application to classroom settings. Special emphasis is placed on development, learning theory, cognition, motivation, diversity, teaching, and assessment.
Pre or Corequisite: EDF1005, EDF2085, EME2040
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EED1200 EARLY CHILDHOOD EDUCATION (3)
This course reviews the history and present day aspects of early childhood programs for infants, toddlers, preschool, and school children. Basic principles and foundations of early childhood education are covered. This course can be used for the AA degree.
EEC1603 CHILD GUIDANCE (3)
This course provides child guidance and group management techniques to foster the development of self-esteem, self-control, and social skills in young children.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EET1015C LINEAR TECHNIQUES I (5)
This is the first course covering semi-conductor devices and laboratory experiments. Topics covered include: semi-conductor principles, rectifier diodes, zener diodes, BJT amplifiers, negative feedback amplifier, Field effect transistors and FET amplifiers. Extensive laboratory experience is included. This course can be used for the AA degree.
Prerequisite: EET1015C
Lec Hrs=64 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EET1025C AC CIRCUITS (5)
Upon completion of this course the student shall demonstrate knowledge of circuit analysis using alternating voltage sources, including the behavior of resistive and reactive passive circuit elements, and frequency and transient response. Magnetic circuits, resonance and ideal transformers are also included. Extensive laboratory experience is included. This course can be used for the AA degree.
Prerequisite: EET1015C
Lec Hrs=64 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EET114IC LINEAR TECHNIQUES II (4)
This is the second course covering advanced semiconductor devices and laboratory measurements. The topics covered include: power amplifiers, frequency response of amplifiers, thyristors, LED and special diodes, operation amplifiers, filters, voltage regulators, basic communications circuits and programmable analog devices. The student will be able to use computer software to solve technical problems, program arrays, and aid in measurement systems. The course requires an extensive laboratory experience. A student fee is charged.
Prerequisite: EET114IC
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EET2142C LINEAR TECHNIQUES III (4)
This is the second course covering advanced semiconductor devices and laboratory measurements. The topics covered include: power amplifiers, frequency response of amplifiers, thyristors, LED and special diodes, operation amplifiers, filters, voltage regulators, basic communications circuits and programmable analog devices. The student will be able to use computer software to solve technical problems, program arrays, and aid in measurement systems. The course requires an extensive laboratory experience. A student fee is charged.
Prerequisite: EET114IC
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EET2326C ELECTRONIC COMMUNICATIONS (4)
Basic electronic communications systems, RF amplifiers and oscillators, amplitude modulation, single side band modulation, frequency and phase modulation, pulse modulation, demodulation, and digital communication methods. Extensive laboratory experience.
Prerequisite: EET114IC
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EET2355C DATA COMMUNICATIONS (3)
The student will study data communications systems including pulse amplitude, pulse width modulation and RS-232, RS-422, IEEE-488. Descriptions of BISYNC, HDLC and local area networks will be included in UART and MODEM implementation.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=0.00

EET2358C ADVANCED COMMUNICATION TECHNOLOGY (3)
This is an advanced course in telecommunication technology, with topics covering analog and digital communication, switching systems, Digital Prerequisite: EET2142C EET2355C
Pre or Corequisite: EET2326C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EEX3011 INTRODUCTION TO EXCEPTIONAL STUDENT (3)
This course will focus on the characteristics and needs of students with disabilities. Course content will include the different types of programs and services that make up exceptional student education (ESE) and the history on how they came to exist. The Introduction to Exceptional Student Education course will serve as the foundation for the development of a personal and professional understanding and philosophy of ESE.
Pre or Corequisite: EDF1005 EDF2085 EME2040
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

EEX3094 NATURE & NEEDS OF THE AUTISM SPECTRUM DISORDER STUDENT (3)
This is an overview course examining issues in providing educational services to individuals with Autism Spectrum Disorder Students (ASD). Emphasis will be placed on definitions and concepts, classification, prevalence, behavioral characteristics, communication, intervention strategies, classroom technology, multicultural issues, and family involvement. Service delivery systems will be reviewed and current trends discussed. 10 school-based hours
Pre or Corequisite: EEX3011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

EEX3103 TEACH K-12 STUDENTS WITH LANGUAGE AND COMMUNICATION DISORDERS (3)
This course is designed to introduce knowledge and skills for teaching students with language and communication disorders in a variety of settings and inclusive classrooms. This course covers language and communication behaviors of children with specific exceptionalities and emphasizes research-based instructional strategies for facilitating and improving communication skills in a variety of contexts. It includes an understanding of the connection between language and literacy, language development, language disorders and characteristics, and intervention strategies. It also includes exploration of adaptive and assistive communication devices.
Prerequisite: EEX3011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EEX3280 TRANSITION PLANNING FOR STUDENTS WITH DISABILITIES (2)
This course is designed for students enrolled in the Bachelor of Science Degree program in Teacher Education. This is an
overview course examining issues related to transition planning for secondary (high school) exceptional education students. Emphasis will be placed on data collection, assessments, self advocacy and adult services. Federal requirements for the development of the Transition Individualized Education Plan (TIEP) will be reviewed and transition process from school to post school will be covered.

Prerequisite: EEX3011
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**EEX3601 POSITIVE BEHAVIORAL SUPPORT**

This is an overview course examining issues related to positive behavioral supports for exception education students. Emphasis will be placed on data collection, analysis and interventions related which address problem behaviors in the classroom. This course is designed to prepare teachers for the educational management of exceptional students with emphasis on behavior management and consultation skills. Students will gain a basic knowledge of how to create and maintain an on-task, safe and healthy environment for learning in the exceptional classroom as well as the inclusive classroom.

Prerequisite: EEX3011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

**EEX4293 ASSESSMENT & STRATEGIES IN EXCEPTIONAL STUDENT EDUCATION**

This course introduces and familiarizes students with formal and informal evaluation techniques and materials for the educational assessment of exceptional learners, including those from diverse linguistic backgrounds, in a variety of settings and inclusive environments.

Prerequisite: EDF3280 EDF4430 EEX3011
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**EEX4843 ASSESSMENT & STRATEGIES IN EXCEPTIONAL STUDENT EDUCATION**

This is an overview course examining issues related to the teaching profession. Students will be introduced to instructional design principles, traditional and emerging technologies, and software and how they are used in the teaching profession. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule.

This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**EMS119 EMERGENCY MEDICAL TECHNICIAN BASIC**

This course is designed to prepare the basic emergency medical technician in accord with U.S. Dept. of Transportation curriculum and Florida State EMS guidelines includes an introductory survey of emergency medical services including medical legal/ethical aspects, role of the EMT, patient assessment, care of wounds and fractures, airway maintenance, medical and environmental emergencies, patient transportation, emergency, childbirth, basic extrication. Successful completion of EMS1119, EMS1119L, EMS1411, and EMS1421 provide eligibility for Florida State EMT Certification Examination. Admission to this course requires departmental approval.

96 hrs. Lec. Terms I, II, and III.
Lec Hrs=96 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**EMS119L EMERGENCY MEDICAL TECHNICIAN SKILLS**

Lab practice and testing of basic emergency medical technician skills included in the Department of Transportation EMT ambulance curriculum and Florida State EMS guidelines. Skills include CPR at AHA basic resucer level, patient assessment, triage, airway maintenance, bandaging, splinting, mast suit application, emergency childbirth, and basic extrication. Successful completion of corequisites EMS1119, EMS1411, and EMS1421 leads to eligibility to take Florida State EMT Certification Examination. Health and accident insurance is recommended. 32 hrs. of Lab Terms I, II, and III.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=55.00
EMS1381 EMT RECERTIFICATION (1)
This course is designed to review the basic knowledge and skills of emergency care, and to introduce the student to current methods use of new equipment and changes in medicolegal aspects of emergency medical care. Successful completion of this course with a grade "C" or higher leads to Florida State Recertification as an EMT. This course may also be used by those who wish to prepare for the Florida State EMT Certification Examination. 24 hr. lec 8 hr. lab Term I, II, and III.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS1381L EMT RECERTIFICATION LAB (1)
Application of skills and procedures involved in the U.S. Department of Transportation's Emergency Medical Technician Refresher Course.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=27.00

EMS1411 EMERGENCY MEDICAL TECHNICIAN (EMT) (2)
Practical application of (EMT), emergency medical technician clinical knowledge and skills under professional supervision in the Hospital setting. Course emphasizes the development of student skill in recognition of signs and symptoms of illness and injuries and in the proper procedures of emergency care. Successful completion of EMS1119, 1119L, EMS1411, and EMS1421 provide eligibility for Florida State EMT Certification Examination. Health and accident insurance recommended. Liability insurance required.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=48 Fees=82.68

EMS1421 EMERGENCY MEDICAL TECHNICIAN (EMT) (2)
Practical application of (EMT) emergency medical technician clinical knowledge and skills under the professional supervision in the prehospital or field setting. Provides for observation and patient care experiences in EMS rescue vehicles. Course emphasizes the development of student skill in recognition of signs & symptoms of illness and injuries and in the proper procedures of emergency care. Successful completion of EMS1119, 1119L, 1411 and 1421 provides eligibility for Florida State EMT Certification Examination. Health and accident insurance recommended. Liability insurance required.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=48 Fees=51.68

EMS2010 BODY SYSTEMS FOR THE PARAMEDIC (3)
This course presents basic information of the structure and function of the human body. The general concepts of anatomy and physiology for the assessment and management of emergency patients by the paramedic in the prehospital field area will be emphasized. The interaction of the body systems as they maintain homeostasis with particular attention placed on the nervous, cardiovascular and respiratory systems will be covered. United States Department of Transportation (USDOT) National Standard Paramedic Curriculum anatomy and physiology objectives will be included.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS231I EMT LEADERSHIP (2)
Introduces the student to professional issues in EMS through special projects. Prerequisite: EMT and paramedic certificate courses. 32 hrs. Lec.
Term I. (Term I only)
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2391 PARAMEDIC REVIEW RECERTIFICATION (2)
This course is based on the department of transportation's (DOT), paramedic refresher training course and is designed to review and update the graduate in the delivery of emergency medical services. Successful completion of the course with a grade of "C" or higher provides eligibility for State of Florida Paramedic Recertification.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2391L PARAMEDIC REVIEW RECERTIFICATION LAB (1)
Application of skills and procedures involved in the Department of Transportation's Paramedic Refresher Course.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=27.00

EMS2631 PARAMEDIC SCIENCE I (3)
Topics deal with EMS systems, Paramedic role and responsibilities, Paramedic well-being, injury, and disease prevention. Legal aspects, ethics, therapeutic communications, life span development, medical terminology, patient documentation including web based computer recording is covered. Systems as they maintain homeostasis with Didactic aspects of EMS/ambulance operations, Multiple Incident Command (MIC), rescue awareness and operations, hazardous materials incidents and crime scene awareness is presented. Basic math computation for medication administration is introduced. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic curriculum objectives for Module 1, Units 1-5, 9, 10, Module 3, Unit 6, and Module 8. Pre or Corequisite: EMS2010 EMS2631L EMS2650
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2631L PARAMEDIC SCIENCE I LAB (1)
Review of basic life support skills required for advanced level life support skills practiced by the Paramedic. Additional skills include those contained in the latest Department of Transportation (DOT) National Paramedic Curriculum and include prep topics related to Paramedic well-being, injury prevention, ambulance operations, Medical Incident Command (MIC), Haz-Mat and crime scene awareness. The student is expected to demonstrate basic level skill proficiency in patient care scenarios appropriate for beginning Paramedic practice.
Corequisite: EMS2010 EMS2631 EMS2650
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=48.00

EMS2632 PARAMEDIC SCIENCE II (3)
Topics include general principles of pathophysiology, pharmacology, venous access and medication administration, Patient Assessment including history taking, techniques of physical examination, assessment procedures, clinical decision making, and radio communications are included. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 1, Units 6, 7, 8, and Module 3, Units 1-5.
EMS2632L PARAMEDIC SCIENCE II LAB (1)
Skills Lab related to pharmacology, venous access and medication administration. Patient Assessment skills including history taking, techniques of physical examination, assessment procedures, clinical decision making, and radio communications are included. Other topics include Airway Management/Ventilation and cardiology. Material includes skills in the U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 1, Units 6, 7, 8, and Module 3, Units 1-5.
Prerequisite: EMS2010, EMS2631, EMS2631L, EMS2650
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=56.00

EMS2633 PARAMEDIC SCIENCE II - CARDIO-RESPIRATORY (3)
Topics deal with Airway Management and ventilation. Selected units from Medical Emergencies are pulmonary conditions, and Cardiology to include an introduction to 12 Lead Interpretation and the pre-hospital management of acute myocardial infarction. Material covers 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 2, and Module 5, Units 1,2.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2634 PARAMEDIC SCIENCE III – TRAUMA (3)
Topics deal with Trauma patient care including trauma systems/mechanisms of injury, hemorrhage and shock, of soft tissue trauma, and burns. Trauma of the head and facial area, spinal, thoracic, abdominal and musculoskeletal system is also covered. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 4.
Prerequisite: EMS2632 EMS2632L EMS2633 EMS2641 EMS2651

EMS2634L PARAMEDIC SCIENCE III – TRAUMA LAB (1)
Skills lab dealing with topics of trauma care, medical emergencies, and special care considerations related to obstetrics, neonatology, pediatrics, geriatrics, abuse and assault, patients, with special challenges and acute interventions for the chronic care patient. Material includes U.S. Department of Transportation (DOT), National Paramedic Curriculum objectives for Module 4, and Module 5, Units 3-14 and Module 6, Units 1-6.
Prerequisite: EMS2632 EMS2632L EMS2633 EMS2641 EMS2651
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=51.00

EMS2635 PARAMEDIC SCIENCE III – MEDICAL EMERGENCIES (3)
Topics include Medical Emergencies related to neurology, endocrinology, allergies and anaphylaxis, gastroenterology, renal/urology, toxicology, hematology, environmental conditions, infectious and communicable diseases, behavioral and psychiatric disorders, gynecology, and obstetrics. Special Considerations related to neonatology, pediatrics, geriatrics, abuse and assault, patients, with special challenges and acute interventions for the chronic care patient are also included. Material includes U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 5, Units 3-14 and Module 6, Units 1-6.
Prerequisite: EMS2632 EMS2632L EMS2633 EMS2641 EMS2651
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2636 PARAMEDIC SCIENCE IV (3)
Prerequisite: EMS2634 EMS2634L EMS2635 EMS2642 EMS2652
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EMS2636L PARAMEDIC SCIENCE IV LAB (1)
Final skills lab dealing with scenarios covering all aspect of the curriculum. Demonstration of skill competencies for Certification in ACLS, PEPP, 12 Lead ECG, Support, Emergency Management of Acute Stroke, and Traumatic Brain Injury required.
Prerequisite: EMS2634 EMS2634L EMS2635 EMS2642 EMS2652
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=84.00

EMS2641 PARAMEDIC SCIENCE – HOSPITAL CLINICAL I (2)
First of three hospital courses stressing Advanced Life Support (ALS) skills for the paramedic student. Provides for directed supervised experiences in local hospitals including patient assessment, documentation and recording of patient care. Clinical experiences with patients having Cardio-Respiratory problems is stressed. Invasive procedures for IV therapy and medication administration are emphasized. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required.
Prerequisite: EMS2010 EMS2631 EMS2631L EMS2650
Lec Hrs=0 Lab Hrs=0 Oth Hrs=72 Fees=77.68

EMS2642 PARAMEDIC SCIENCE - HOSPITAL CLINICAL II (2)
Second of three hospital courses continuing Advanced Life Support (ALS) skills for the paramedic student. Provides for directed supervised experiences in local hospitals. Clinical experiences with patients having Medical and Trauma Emergencies is stressed. Special patients of interest include OB-GYN, neonates, pediatric, psychiatric, geriatric, and patients with special challenges. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required.
Prerequisite: EMS2632 EMS2632L EMS2633 EMS2641 EMS2651
Lec Hrs=0 Lab Hrs=0 Oth Hrs=72 Fees=83.68

EMS2643 PARAMEDIC SCIENCE – HOSPITAL...
CLINICAL III  
Last hospital courses involving patient care in variety of emergency and health care agency sites. Clinical experiences with patients of all age groups and medical/traumatic conditions is continued. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required. Pre-requisite: EMS2634 EMS2634L EMS2635 EMS2642 EMS2652  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=72 Fees=86.68

EMS2650 PARAMEDIC SCIENCE I FIELD  
First of four field courses dealing with the application of didactic material in the rescue field. Provides for directed, supervised experiences on EMS Advanced Life Support (ALS) vehicles. Emphasis on clinical activities and observations related to the US Department of Transportation (DOT), National Paramedic Curriculum, Module 1 and 8. Activities limited to practice of basic life support skills, assisting as a member of the EMS team and observation of paramedic level skills and activities. Documentation of patient care observations and patient care experiences using web based data collection system is required. Student health, accident and liability insurance is required.  
Corequisite: EMS2010 EMS2631 EMS2631L  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=58 Fees=51.68

EMS2651 PARAMEDIC SCIENCE II FIELD  
Second of four field courses that provides for directed, supervised experiences on EMS Advanced Life Support (ALS) vehicles. Emphasis on clinical activities related to physical assessment with emphasis on patients with Cardio-Respiratory problems. Invasive procedures for IV therapy and medication administration are introduced. Data recording of skill competencies on web based computer system is required. Health and Liability insurance required.  
Prerequisite: EMS2010 EMS2631 EMS2631L EMS2650  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=84 Fees=51.68

EMS2652 PARAMEDIC SCIENCE III FIELD  
Third of four field courses stressing continuation of Advanced Life Support Skills for the Paramedic student. Provides for directed, supervised experiences on Advanced Life Support (ALS) vehicles. Emphasis on clinical activities related to trauma care, medical emergencies, obstetrics, pediatrics, geriatrics and specialty areas. Health and Liability insurance required.  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=84 Fees=51.68

EMS2653 PARAMEDIC SCIENCE IV FIELD  
Final field course where student serves as team leader on EMS calls under supervision of EMS agency preceptor. Provides for directed, supervised experiences on Advanced Life Support (ALS) vehicles with increasing responsibility for the management of the EMS response. Health and Liability insurance required.  
Prerequisite: EMS2632 EMS2632L EMS2633 EMS2641  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=96 Fees=11.00

EMS2850 PARAMEDIC CURRICULUM BRIDGE  
This course provides a bridge for the 1998 DOT Paramedic Curriculum. Topics include emergency care coverage for heart attack and stroke victims, enhanced 12 lead interpretations, use of thrombolytics, and inclusion/exclusion criteria for thrombolytic therapy. In addition, this course includes a number of sections not covered or briefly covered in 1985 DOT National Paramedic Curriculum. These specific topics include the wellbeing of the paramedic, injury prevention, therapeutic communications, life-span development, general principles of pathophysiology, clinical decision making, hematology, abuse and neglect, patients with special challenges, acute interventions for the home health-care, assessment based management, and crime scene awareness. Material includes 1998 U.S. Department of Transportation, (DOT), National Paramedic Curriculum objectives for Module 1, Units 2,3,6,9, and 10, Module 3, Unit 4, Module 5, Units 2 and 9, Module 4, Units 5, Units 7, 9, and 10, Module 5, Units 1, 2, 3, 4, and 6.  
Corequisite: EMS2650  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENC0015 DEVELOPMENTAL WRITING I LAB  
A laboratory component that will supplement classroom instruction in ENC0010. Instruction focuses on the individual needs of the student. Students will have individualized prescriptions depending on the results of the diagnostic test. Students must pass a series of competency-based tests to receive credit for ENC0010.  
Pre or Corequisite: ENC0015  
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=25.00

ENC0025 DEVELOPMENTAL WRITING II LAB  
A refinement of grammatical, mechanical, and usage principles including an overview of the strategies of paragraph and essay development. With a "D" or an "F", a student must repeat the course. Credit for this course may not be used to meet degree requirements. Students must pass a series of competency-based tests to receive credit for ENC0021.  
Corequisite: ENC0025  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENC0101 COMPOSITION I  
A laboratory component that will supplement classroom instruction in ENC0101. Instruction focuses on the individual needs of the student. Students will have an individualized prescription depending on the results of the diagnostic test and must complete the lab requirement to receive credit in ENC0101.  
Pre or Corequisite: ENC0101  
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=25.00
A university parallel course in which the student writes expository themes in various modes. Research methods and library skills are introduced and a documented paper is required. Each student is encouraged to use the writing lab to strengthen writing skills. Placement in ENC 1101 is determined by both standard and departmental assessment tests. A student must earn a grade of "C" or higher to meet the requirements of the Gordon rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=20.00

ENC1002 COMPOSITION II (3)
Composition II is designed to further develop a student's composition skills by building on the rhetorical modes/strategies learned in ENC 1101. The course requires students to observe the conventions of Standard American English and create documented essays, demonstrating the student's ability to think critically and write analytically. Selected readings supplement the course and provide topics for discussion and written assignments. Students use library research methods for primary and secondary sources to produce MLA style-documented and well-argued essays and research paper. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: ENC1101
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENC1905A INDEPENDENT DIRECTED WRITING (1)
An independent study for students who need to write 1,000 words to complete their writing requirement. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=8 Lab Hrs=8 Oth Hrs=0 Fees=0.00

ENC1905B INDEPENDENT DIRECTED WRITING (1)
An independent study for students who need to write 2,000 words to complete their writing requirement. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=8 Lab Hrs=8 Oth Hrs=0 Fees=0.00

ENC2210 PROFESSIONAL AND TECHNICAL WRITING (3)
A composition course focusing on writing for business, science, and technology. Assignments include letters, memos, resumes, reports, proposals, an oral presentation, and the use of graphics. Students use a variety of research and investigative techniques to produce documented papers on science, business or technological subjects. Students must pass with a minimum of "C" or higher to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: ENC1101
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENG2201 THE FILM AS LITERATURE (3)
Focuses on the relationships of two art forms—literature and film—and pays particular attention to how film has evolved as an art form and the ways which literature and its elements have influenced film. Also examines uses of literary techniques and the ways they have been adapted to film. Selected novels, short stories, plays, essays and/or memoirs may also be read as a means of comparing film and literature. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENL2012 BRITISH LITERATURE TO 1798 (3)
Traces the development of the thematic, linguistic, and literary characteristics of British literature up to the 18th century. Emphasis will be placed on Chaucer, Shakespeare, Milton, Swift, and authors that reflect the changing literary canon. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: Eligibility for ENC1101
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENL2022 BRITISH LITERATURE SINCE 1798 (3)
Students will be introduced to works that represent the diverse literature of British literature published since 1798 to the present. Texts may be selected from major authors such as Amis, Austen, Blake, the Brontës, the Browning’s, Byatt, Coleridge, Darwin, Dickens, Eliot, Ishiguro, Marx, Pinter, Tennyson, Wollstonecraft, Wordsworth, Byatt, Rushdie or Achebe. Upon successful completion of the course, students will understand the significant concepts, contexts, movements, figures, and works of British literature since 1798 to the present. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENL2330 INTRODUCTION TO SHAKESPEARE (3)
This course introduces students to the background of Shakespeare's life and work. Shakespeare's sonnets or narrative poems and plays are presented and the structure, content, and vision of Shakespearean histories, comedies, tragedies, and romances are studied. The course offers an opportunity to reinforce critical reading, writing, and research skills with regard to an iconic writer of western literature. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ENY1001 INSECTS, MAN AND ENVIRONMENT (3)
A survey course in entomology for non-majors. The focus will be on both beneficial and detrimental impacts of insects and related arthropods and their role in the environment. Interactions with man, such as insects as disease vectors, agricultural pests, urban pests, indicators of environmental health, pollination and forensic crime-solving tools will be given emphasis. Both current and historical events and their impacts will be examined. The students will be given a non-entomogenic view and expand their knowledge about the
abundance and diversity of the largest group of animals on Earth. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ESC1000 EARTH SCIENCE (3)
An integration of the three classic disciplines of the earth sciences, geology, meteorology, and oceanography, and man's place in the universe. Course will focus on the basic principles governing these disciplines, and the effect of each on man. Placement by Testing Department. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ESC1000L EARTH SCIENCE LABORATORY (1)
This course will have experiments and exercises that will be investigating the hydrosphere, lithosphere and atmosphere of earth. The earth will also be mapped and investigated as an object in space. At least 4 of the following six units will be covered: (1) Reading and Writing in the Earth Sciences*, (2) Introduction to Laboratory Study*, (3) The Solid Earth*, (4) Earth's Waters*, (5) Earth's atmospheres and (6) Mapping. This course can be used for the AA degree.

Pre or Corequisite: ESC1000
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=16.00

ESC4074 WEATHER AND CLIMATE (3)
This course provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect it, such as temperature, humidity and pressure. The course examines the development of meteorological phenomena, such as storm systems, hurricanes weather fronts and cloud formation. Finally, climatologic concepts will be explored. This course maintains scientific integrity and addresses technologies used in both meteorological and climatic studies.

Pre or Corequisite: MAC1105
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EST224C FIBER OPTIC COMMUNICATIONS (3)
The study of fiber optic communication systems and devices. Topics include electronic and optical devices, splices and fiber optic cables as well as telecommunications applications of fiber optic systems. Extensive lab experience. Prerequisite: EET2142C.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=0.00

EST2436C BIOMEDICAL INSTRUMENTATION I (3)
Students will acquire proficiency in biomedical equipment maintenance through classroom and laboratory environment and will gain familiarity with and learn to evaluate, troubleshoot, test, and repair various types of biomedical equipment. Students will also learn to function in a hospital environment through an internship in the biomedical department of a participating hospital or biomedical equipment company.

Prequisite: CET1117C, EET2142C, HSC1531
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

EST2438C ADVANCED BIOMEDICAL INSTRUMENTATION (3)
This course is intended to inform students about the theory and operation of instrumentation employed in the medical imaging field such as x-ray machines, CT scanners, Ultrasound, Nuclear Medicine and MRI.

Prerequisite: EST2436C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=24.00

EST2940 BIOMEDICAL ENGINEERING TECHNOLOGY I (4)
The student will participate in a 13-week internship, 24 hours per week at a co-operating hospital. Topics will include orientation, orientation to biomedical engineering, medical instrumentation theory, safety standards, "hands-on" preventive maintenance procedures and equipment repair activities. The hospital biomedical engineering staff will directly supervise all aspects of this course.

Prequisite: CET1117C, EET2142C, HSC1531
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=51.68

ETC1250C MATERIALS AND PROCESS (3)
Introduces the materials and process commonly used in building construction. Provides background relating to physical properties, sources and costs. Includes a study of standard manufacturing processes and recent methods of application; and ASTM procedures for testing concrete and steel, soils, and other building materials. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

ETD1320 BASIC CAD (3)
First course in computer aided design (CAD), lab work using AutoCAD software. Topics include fundamentals of DOS, AutoCAD command structure, setting units and limits, drafting primitives, layering, use of editing tools; grid, snap, and axis commands. Assignments requiring extensive use of the CAD lab. Extra lab hours are available.

Lec Hrs=16 Lab Hrs=48 Oth Hrs=0 Fees=50.00

ETD2350C ADVANCED CAD (3)
Additional topics in Auto CAD. These include blocks, move and copy, array, mirror, text, text styles, 3-D and isometric modes. The development of macro operations. As in basic CAD, extra lab hours are available.

Prerequisite: ETD1320
Lec Hrs=16 Lab Hrs=48 Oth Hrs=0 Fees=0.00

ETP2402C INTRODUCTION TO SOLAR PHOTOVOLTAIC (3)
This course delivers an introduction to background essential theory, principles, and future of distributive energy technology. It focuses on solar/photovoltaic systems work, and integrate with the electrical grid. This course is the first of a two-part series (precursor to the installation course EET2551C) that will prepare the student for the North American Board of Certified Energy Practitioners (NABCEP) certification.

Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=0.00

ETP2410C INSTALLATION OF SOLAR PHOTOVOLTAIC (3)
This course covers the design and installation of photovoltaic systems. It is the second course in a two-part series. (Follow-up to the Introduction to PV Systems EET 2550) which provides all the content necessary to prepare the student for the North American Board of Certified Energy Practitioners (NABCEP) certification.
EUH1000 SURVEY OF WESTERN CIVILIZATION I (3)
Historical survey of Western culture from its roots in the ancient Near East to the beginning of the early modern period. Provides students with broad foundation of knowledge to understand socio-economic, intellectual, political and other cultural forces which have shaped (and continue to shape) Western civilization. Students will explore and apply general principles of historical methodology, and will develop their critical reading, thinking, and writing skills throughout the course. Geographic range: Near East, Mediterranean basin, Western Europe. Course themes comprise: development, expansion, and cultural influence of Greco-Roman civilization; encounters between diverse cultures over the several millennia which comprise Western Civilization, and the transformations which result from such encounters; the rise and fall of governmental, economic, and social systems; Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EUH1001 SURVEY OF WESTERN CIVILIZATION II (3)
This course surveys the major political, social, economic, cultural and international developments that shaped Western Civilization from the 17th century to the 21st century. Major topics include the evolution of the European nation-state, the emergence and consequences of modern political ideologies, and the roles of revolution, war, industrialization and technological innovations in an era that saw Europe achieve and then lose world hegemony. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EUH2032 HISTORY OF THE HOLOCAUST (3)
An examination of the historical origins, execution, and consequences of the Holocaust. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EUH2052 HISTORY OF SPAIN (3)
This course will examine Spain's historical development from prehistoric times to the present. Particular emphasis is placed on tracing the effects upon modern Spain of the major events in the nation's history, as well as the impact on the country of historical phenomena such as the Renaissance, the Enlightenment, the Napoleonic Wars and industrialization. The last part of the course examines the Spanish Civil War, Francoism and the country's subsequent reemergence in the international community. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVR1009 ENVIRONMENTAL SCIENCE (3)
Study of the physical environment, its relationship with the biosphere, and man's impact upon natural systems. Placement by Testing Department or Prerequisite: MAT0028 This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVR1858 ENVIRONMENTAL REGULATION (3)
This course deals with the purpose of federal, state, and local environmental law and its impact on South Florida and the larger world community. Reason for protection of the environment, compliance with legislation, and the concept of due diligence are emphasized. Extensive use of the case studies approach will be used to illustrate the application of law. Placement by Testing Department. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVR2930 ENVIRONMENTAL SCIENCE SEMINAR (1)
Selected current topics in environmental science and related subjects. Placement by Testing Department. Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVR2949 CO OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Pre-requisite: Co-Op Department approval. Student will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. Placement by Testing Department. Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVS2005 WATER SUPPLY AND WASTE WATER DISPOSAL (3)
A single course covering the sources, treatment and distribution of potable water and the collection, treatment and disposal of wastewater. Field trips include inspection of local facilities. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

EVS2063 ENVIRONMENTAL SAMPLING AND ANALYSIS (5)
This course provides an introduction to EPA and DEP-approved methods for the collection and analysis of environmental samples. The laboratory is integrated with class theory. Topics include; sampling of water, soils, sediments and hazardous waste; application of field and laboratory-based analytical methods; documentation procedures; method validation including generation of precision, accuracy, and detection limits; writing comprehensive and project-specific quality assurance plans. Prerequisite: CHM1025 CHM1025L Lec Hrs=48 Lab Hrs=64 Oth Hrs=0 Fees=20.00

FES2010 INTRODUCTION TO EMERGENCY MANAGEMENT (3)
A study of Emergency Management, including the current organizational structure/procedures of emergency management programs, the 4 phases of emergency management: mitigation, preparedness, response and...
recovery, and past and current emergency management systems.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI8000 INTRODUCTION TO FIRE SCIENCE** (3)
This introductory course will examine the evolution of the modern fire department, chemistry and physics of fire, fire hazard properties of materials; combustion; theory of fire control; importance of fire protection; public fire defenses; and other materials pertinent to fire service.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI120 FIRE PROTECTION THROUGH BUILDING CONSTRUCTION** (3)
Course examines objectives and criteria of South Florida building code requirements for various types of occupancies, classification by types of construction, building materials, fire resistant standards, egress, permits, inspections, and standards, and other pertinent material for building construction.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI505 FIRE PREVENTION THEORY AND APPLICATIONS** (3)
Fundamentals of fire prevention are introduced with examination of fire causes and effects. The function of fire prevention bureaus, enabling legislation regulations and standards are discussed. Additional areas of study include the inspection process, fire code enforcement, local decisions, fire investigations, records and reports.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI510 CODES AND STANDARDS** (3)
Review of specific requirements of codes and standards that have a direct influence on life safety in both new and existing structures. Study includes discussion on the requirements for property protection.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI540 FIRE PROTECTION AND DETECTION SYSTEMS** (3)
This course examines requirements for and testing of fire sprinkler and standpipe systems, chemical systems, detection and alarm systems.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI780 FIRE ADMINISTRATION I** (3)
An introduction into managing fire services and community fire protection programs. Relationships between the insurance industry, the professional community, contemporary management and planning concepts are analyzed.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI793 FIRE AND LIFE SAFETY EDUCATOR I** (3)
This course is designed to provide the public educator with the knowledge and skills to successfully perform as a fire and life safety educator. Case study topics include fire behavior, community assessment, injury prevention and juvenile fire-setting. The student will also develop presentation skills and learn how to formulate public education programs. This course meets state and national certification criteria for Fire and Life Safety Education, Level I.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI8100 FIREFIIGHTING TACTICS & STRATEGY** (3)
A study of tactical considerations and strategic options employed in the extinguishment of fires; pre-planning and company level field operations will be analyzed with application of course concepts. 3 hrs. lec.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI830 INTRODUCTION TO HAZARDS** (3)
An in-depth study of the details and dynamics of natural and man-made hazards. Includes methods and means to measure, monitor and predict the physical impact of hazards on society. Special emphasis on hazards that impact Florida.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2111 FIRE CHEMISTRY** (3)
Study of the physical and chemical properties of matter, with a particular emphasis on hazardous materials, hydrocarbons, oxidation-reduction chemistry, and residuals of pyrolysis. Topics covered include atomic structure, the periodic table, chemical bonding, chemical measurement, stoichiometry, and the study of chemical properties according to group, class, and reactivity. Sample collection and analysis is included as a practical component of the course.

Prerequisite: Municipal Fire Inspector Certification.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2301 FIRE HYDRAULICS** (3)
Study of the physical properties of water used in fire protection. Basic hydraulic measuring units, facts, theories and formulas for problem solving.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2302 FIRE APPARATUS AND PROCEDURES** (3)
Course offers study in evolution of fire apparatus; apparatus construction; pumps and pump accessories; pumping procedures; pump test; trouble shooting; aerial ladders; aerial platforms; maintenance; driving fire apparatus.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2401 HAZARDOUS MATERIALS I** (3)
Study of types of chemicals and processes, storage, and transportation of chemicals; hazards of radioactive materials; precautions to be taken in fire fighting involving hazardous materials; laws of federal, state and local levels pertaining to such materials.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2402 HAZARDOUS MATERIALS II** (3)
A continuation and expansion of FPI2401 to include radioactive materials, corrosives, pesticides, rocket propellants, and other related materials.

Prerequisite: FPI2401

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FPPI2521 CONSTRUCTION AND PLANS EXAMINATION** (3)
Students will review actual building plans and apply codes, standards and inspection techniques, to find errors and omissions, students shall make appropriate corrections according to the code, and with preferences identified. Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2541 PRIVATE FIRE PROTECTION SYSTEMS II**

This course is an in-depth discussion of pre-engineered and portable systems, extinguishing agents, inspection procedures for code compliance and enforcement, and alarm systems. Contemporary systems are examined through case studies. This course is part of the Fire Inspector II State Certification.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2604 ORIGIN & CAUSE**

A study of the arson and investigation problems examining facts and figures, motives and the role of fire department in arson suppression. Reviewing chemistry of explosions. Analyzing the juvenile arson problem. Analysis of urban fires, automobile fires, and reports, interrogation and presenting the arson case in the courtroom.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2630 LATENT INVESTIGATION**

Study of proper crime scene and fire scene investigation including conduct of appropriate documentation, collection and preservation of evidence, and the qualitative analysis of data to determine whether or not prosecution for the crime of arson is indicated. Special situations/problems will be examined including the arsonist’s use of explosive and hazardous materials. Motives for arson will be discussed, and distinctions made between civil and criminal situations.

Prerequisite: FFP1120 FFP1505 FFP1510 FFP1540 FFP2521

Lec Hrs=40 Lab Hrs=4 Oth Hrs=0 Fees=0.00

**FFP2670 LEGAL ISSUES IN FIRE INVESTIGATIONS**

Study of the applicable laws and attending legal considerations associated with the successful prosecution of arson cases. Specific areas of concentration include witness statements, interviews, interrogations, depositions, and written reports. Expert qualification and effective courtroom testimony will be examined and evaluated. Distinctions will be discussed between civil and criminal situations. Students will be required to prepare a case for prosecution from evidence gathered and/or provided in class, and present their testimony in a mock trial activity.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2706 PUBLIC INFORMATION OFFICER**

This course prepares the student to serve effectively as an organizational spokesperson, according to current practices in the profession of public relations and numerous examples from the fire service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer’s role in the Incident Command System. This course is part of the Fire Officer II and Fire Inspector II State Certification programs.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2710 FIRE DEPARTMENT SUPERVISION**

Study of superior subordinate relationships, motivation, leadership, morale, discipline, work planning and other supervisory responsibilities related to fire dept. operations.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2740 TECHNIQUES OF INSTRUCTION IN THE FIRE SCIENCE**

Study of the instructor’s role and responsibility in the teaching/learning process, introduction of teaching/learning styles, job task analysis, learning objectives, lesson planning and development, testing and evaluation, and administration of programs. 3 hrs. Lec.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2741 FIRE SCIENCE COURSE DESIGN**

Course covers the principles of effective curriculum design in the Fire Service field. It stresses the principles of adult and student-centered learning. Students learn to design courses and units that address learning, performance, and behavioral objectives as related to Fire Science.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2770 ETHICAL AND LEGAL ISSUES FOR THE FIRE SERVICE**

This course deals with the entire spectrum of issues facing today’s fire service leaders. Topics include: labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making are used. Case studies are used to explore contemporary issues. Students will be notified prior to the class.

Part of Fire Officer II.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2800 EMERGENCY MANAGEMENT PUBLIC EDUCATION**

The design, development and delivery of emergency disaster safety and informational programs to the public, including targeting program audiences and evaluating the effectiveness of the programs.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2811 APPLICATION OF FIREGROUND TACTICS**

This course applies the basic principles learned in FFP1400 to specific fire problems, e.g., churches, flammable gases and liquids, lumberyards, department stores, residential, supermarkets, and warehouses. Included are additional pointers on solving these problems and those of a miscellaneous nature; also command responsibilities on the fireground.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2831 HAZARD PLANNING & MITIGATION**

An examination of how to develop programs that will reduce losses from future disasters, emergencies and other extreme events caused by natural and man-made hazards.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**FFP2840 DISASTER RESPONSE & RECOVER**

This course provides an overview of the various aspects of disaster and recovery issues related to the fire service. Evaluation of the nature and effect of disasters and recovery issues in the fire service. This course is part of the Fire Officer II and Fire Inspector II State Certification programs.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
A custom made course for those residents in the community who require a cursory knowledge of French to help them communicate with French speaking people. One hour language laboratory weekly. Special Fee Charged. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=15.00

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
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<tr>
<td>FIN1100 PERSONAL FINANCE</td>
<td>(3)</td>
<td>This course provides a survey of the areas of personal economic problems with which all individuals must contend. Course content guides each person towards receiving favorable results in the following areas: buying on credit, borrowing money, using bank services, and investing savings; selecting from various types of insurance coverage; home ownership vs. renting; obtaining investment information, investing in stocks and bonds; income taxes; Social Security; Medicare, retirement planning and annuities; and estate planning, wills, and trusts. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00</td>
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<td>FIN2051 FINANCE OF INTERNATIONAL TRADE</td>
<td>(3)</td>
<td>This course provides a general survey of international trade. Topics studied include transportation modes, cargo insurance and the various special terms of sale used in overseas transactions. Also covered are import/export, foreign exchange, pricing and quotations; import/export documentation and procedures; documentary credits, international payments and collections; bank financing sources for international trade and alternative financing techniques. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00</td>
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<tr>
<td>FIN4460 FINANCIAL STATEMENT ANALYSIS</td>
<td>(3)</td>
<td>This course explores methods of deriving information from financial statements, including both published documents and privately prepared reports that would be of interest to lenders and investors. Extensive use is made of computer assisted financial planning and forecasting models. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00</td>
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<tr>
<td>FSS1203C QUANTITY OF FOOD PRODUCTION II</td>
<td>(3)</td>
<td>Students will acquire the fundamental concepts, skills and techniques involved in the management of resources, use of recipes, use and care of equipment, and evaluation of food products. Special emphasis is given to practical demonstrations in breakfast cookery, salads, dressings, cold sauces, sandwiches, and safety and sanitation principles.</td>
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Students must successfully pass written and practical cooking examination covering a variety of techniques and procedures.

Lec Hrs=40 Lab Hrs=16 Oth Hrs=0 Fees=0.00

FSS1240C CLASSICAL CUISINE  (3)
This course provides the professional culinary student with new menu items and terminology. It sets and applies standards to hot/cold hors d’oeuvres, appetizers, large and small dinner parties, and pastry products. The students observe preparation skills, write recipes, practice correct serving techniques, and taste the prepared food. Instructor’s approval or Prerequisite: FSS1221C

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=25.00

FSS1246C BAKING AND PASTRIES I  (3)
Students will acquire knowledge of the composition and properties of baking ingredients. They will utilize the proper equipment and tools, and standardized recipes to prepare yeast breads, rolls, pastries, and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

FSS1284 CATERING  (3)
This course provides a survey of catering operations. Topics covered include the preparation of a menu, estimating cost and food quantities, planning the room arrangement, the setup of buffet and service tables, and the performance of services. In addition, the allocation of time to prepare, transport, and setup the equipment and food for a catered affair are studied.

This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

FSS2204C QUANTITY OF FOOD PRODUCTION II  (3)
This course will enable students to learn and execute various methods preparing vegetable, starch, meat, fish, and poultry cookery, including the basic cooking techniques: sautéing, roasting, poaching, braising and frying.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

FSS2205C QUANTITY OF FOOD PRODUCTION III  (3)
Students will focus on the knowledge and preparation of job descriptions. Students will utilize all commonly accepted methods of recruiting a successful staff. Menu selection, staffing, and balance will be studied. The course also emphasizes safety and sanitation procedures. Students will learn about common problems in hiring and supervising employees.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

FSS2242C INTERNATIONAL CUISINE  (3)
This course covers international cookery as it applies to modern menu use and selection. It includes preparation of cold buffet, entreé, dinner accompaniment, and flambé dessert. The students observe preparation skills, write recipes, practice correct serving techniques, and taste the prepared food. Instructor’s approval or Prerequisite: FSS1240C

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=25.00

FSS2247C BAKING AND PASTRIES II  (3)
Students will continue to build knowledge of the composition and properties of baking ingredients. They will utilize the proper equipment and tools, and standardized recipes to prepare yeast breads, rolls, pastries, and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

Lec Hrs=40 Lab Hrs=16 Oth Hrs=0 Fees=0.00

FSS2248C GARDE MANGER  (3)
Students will acquire knowledge and demonstrate skills in the cold foods area of the kitchen. The key topics will include sausages, pâtés, terrines, cured and smoked foods, cheese making, hors d’oeuvres, appetizers, condiments, garnishing and ice carving.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=25.00

FSS2251 FOOD AND BEVERAGE MANAGEMENT  (3)
This course provides a cost managing approach to the study of food and labor controls. Student examine the relationship of food and labor costs to selling price; cost control procedures for recipes and menus; pre-cost and pre-control techniques; the preparation and utilization of management reports. A review of mathematics and its application to practical problems is covered. Emphasis is placed on the utilization of controls as a tool of management.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

FSS2500 FOOD SERVICE COSTING AND CONTROLS  (3)
Regional geographical characteristics, area relationships and major regional internal as well as interactive problems will be analyzed. The theme of this course is to impart geographic knowledge at the world regional level, then explain how these factors create global contrasts. Special emphasis will be placed on how the world has become more interdependent as complex economic systems have evolved and become more specialized. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEA2000 WORLD GEOGRAPHY  (3)
Regional geographical characteristics, area relationships and major regional internal as well as interactive problems will be analyzed. The theme of this course is to impart geographic knowledge at the world regional level, then explain how these factors create global contrasts. Special emphasis will be placed on how the world has become more interdependent as complex economic systems have evolved and become more specialized. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEA2030 GEOGRAPHY OF THE EASTERN WORLD  (3)
A regional survey of the human/cultural and physical/environmental aspects of the non-western world including the following regions: North Africa & SW Asia, Sub-Saharan Africa, South Asia, Southeast Asia, East Asia, and the Pacific Island Realm. The characteristics and special problems of each region will be analyzed from a geographical perspective in order to understand global diversity and the forces and issues that help shape the world. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
GEA2040 GEOGRAPHY OF THE WESTERN WORLD (3)
A regional survey of the human/cultural physical/environmental aspects of the western world including the following regions: Europe, Russia and the C.I.S., Anglo America, Middle America, South America, and Australia. The characteristics and special problems of each region will be analyzed from a geographical perspective in order to understand global diversity and the forces and issues that help shape the world. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB1001 INTRODUCTION TO BUSINESS (3)
This course provides a basic study of business activity and how it relates to our economic society. Topics covered include how businesses are owned, organized, managed and controlled. Course content emphasizes business vocabulary, areas of business specialization, and career opportunities. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB2121 ENTREPRENEURSHIP (3)
This course presents a modern treatment of business. It explores start-up/buy-out, franchising, business plans, marketing plans, human resources, financial planning, legal forms, products/services, selling, advertising, management policies, accounting systems, tax issues, capital management, computers, risk management, and ethical issues. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB2430 BUSINESS ETHICS (1)
A brief practical approach to recognizing, understanding and solving ethical problems confronting today's business people and organizations. Students will review the historical development of ethics, examine a variety of ethical dilemmas, and will practice resolving them through ethical reasoning. Reference to statutory and professional codes will be addressed. Logical and responsible decision-making will be stressed with individual, organizational and societal needs being addressed. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student’s field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Cooperative Education Office to obtain registration approval. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB2955 INTERNATIONAL CURRENT BUSINESS PRACTICES (3)
Upon successful completion of this course, students should have a broad conceptual viewpoint of international business activity in areas such as finance, marketing, production and manufacturing. This course covers the nature and purpose of business between nations as well as the concepts of the multinational corporation and its importance in the world marketplace. Business concepts of other nations are studied through actual visits to foreign business enterprises. Emphasis is given to the differences in business policies between countries and their relationship to business activity. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEB3213 BUSINESS WRITING (3)
This course focuses on techniques to improve writing skills. The course will use a workshop format that relies on writing assignments, discussions, and classroom activities. An emphasis on global business writing will be included.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEO1000 INTRODUCTION TO GEOGRAPHY (3)
This course is a study of the geographical patterns of both human and physical phenomenon and the interaction between humans and their environment. Through readings in the text and/or supplemental sources and via class lectures, activities and discussions analysis will target the earth's physical systems including landforms, hydrosphere, and climates; human systems such as culture, population and economic/urban development; as well as and human impact on the world's natural resources. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEO2200 PHYSICAL GEOGRAPHY (3)
This course serves as an introduction to the manner in which natural systems function at global and regional scales. The course uses a geographical perspective to analyze landforms, climate, the water cycle, and the biosphere, examining spatial relationships and regional variations and addressing spatial patterns of human activity as related to environmental phenomenon. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEO2230 CONSERVATION OF NATURAL RESOURCES (3)
A survey of the use and mismanagement of natural resources within the environment, including problems of development, pollution, biotic systems, population, resource depletion and technology. Special emphasis will be placed upon the spatial/geographical Manifestation of conservation issues. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GEO2240 INTRODUCTION TO HUMAN/CULTURAL GEOGRAPHY (3)
This course will introduce students to geographical concepts as applied in human/cultural issues and problems of the world today. Emphasis will be placed on tensions between globalization and human diversity. The systematic approach will offer theories and techniques developed by geographers that assist in understanding both human-cultural interaction and human-environmental interaction. Students must earn a
minimum grade of “C” to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GER1000 ELEMENTARY GERMAN CONVERSATION
(3)
A custom made course for those residents in the community who require a cursory knowledge of German to help them communicate with German speaking people. One-hour language laboratory weekly. Special fee charged. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=15.00

GER1120 BEGINNING GERMAN I
(4)
Fundamentals of speaking, listening-comprehension, reading and writing in German. Introduction to the German-speaking world, German language and culture. Classroom practice supported by on-line, laboratory and/or multi-media exercises, designed to develop student proficiency and confidence. Students are expected to further their skills in GER1121 and GER2220.
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

GER1121 BEGINNING GERMAN II
(4)
Further development of speaking, listening-comprehension, reading and writing in German. Students become more acquainted with the German speaking world, German language and culture. Classroom practice supported by on-line, laboratory and/or multi-media exercises, designed to develop student proficiency and confidence. Students are expected to further their skills in GER2220.
This course can be used for the AA degree.
Prerequisite: GER1120
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

GER1170 GERMAN STUDY TRAVEL
(3)
A course designed for students who wish to combine the study of German with subsequent travel to German speaking region. This course can be used for the AA degree.
Prerequisite: GER1120
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GER2220 INTERMEDIATE GERMAN I
(4)
Continued practice of speaking, listening-comprehension, reading and writing in German. Students acquire more in-depth knowledge about the German speaking world, German language and culture. Classroom practice is supported by on-line, laboratory and/or multi-media exercises, designed to develop student proficiency and confidence. Students are expected to further their skills by studying abroad. Prerequisite: GER1121
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

GIS1030 REMOTE SENSING AND APPLICATIONS
(3)
This course introduces basic concepts and fundamentals of remote sensing, image processing, and the global positioning system (GPS). The principles and processes involved in air photo interpretation will be reviewed and examined. Image processing techniques will be reviewed from practical and mathematical points of view. The course is intended to provide the student with the background information necessary to successfully use remotely sensed imagery and GPS in conjunction with GIS technology. Prerequisite: Knowledge of Windows operating system.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=8.00

GIS1040C INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS I
(4)
The intent of this course is to provide the student with a detailed introduction in geographic information systems (GIS) and support this information with laboratory activities. The course will cover all working knowledge of the theory aspects of geographic information systems including data collection, preprocessing, data management and data analysis as well as an introduction to the application of these systems. This course can be used for the AA degree.
Prerequisite: knowledge of Windows operating system.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=16.00

GIS1042C INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS II
(3)
This course will build upon the student's fundamental knowledge of GIS gained in the prerequisite course titled "Introduction to Geographic Information System I". The student will learn how to implement geographic concepts in GIS systems. The course will provide the student with the fundamental of computing and information science systems and cartography. It will introduce the student to the theory and practice of computer-aided cartography. In addition, the student will delve more deeply into data representation, manipulation and presentation. This course can be used for the AA degree.
Prerequisite: GIS1040C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=16.00

GIS1047C APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS
(3)
A combined lecture and laboratory course in which students will draw upon the principles learned in GIS I and GIS II to increase/refine skills and apply them to individual and/or group projects. This course can be used for the AA degree.
Prerequisite: GIS1040C GIS1042C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=32.00

GLY1010 PHYSICAL GEOLOGY
(3)
Study of geologic agents, minerals, rocks, structure, and landforms. The effects of geologic events upon life and human relations are discussed. Students registering in GLY1010 are strongly urged to register in the companion lab GYL1010L. Some senior institutions require a 4 credit geology course.
Three hours weekly. Placement by Testing Department. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

GLY1010L PHYSICAL GEOLOGY LABORATORY
(1)
Study of common rocks and minerals including their classification and origin and the interpretation of landforms through the study of geologic maps. One 2-hour laboratory weekly. Placement by Testing Department. This course can be used for the AA degree.
GLY1100 HISTORICAL GEOLOGY (3)
A study of the origin and evolution of the Earth and the history of life on our planet. The course encompasses the causes and effects of geologic change and the evolution of life, and the role of plate tectonics on the geologic and biologic evolution of Earth. Emphasis is placed on how and why past geologic and biologic changes occurred. Interpretations of Earth's past history are also used to help explain current events and predict future trends. Field trips are optional. This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=55.00
Pre or Corequisite: GLY1100

GLY1100L HISTORICAL GEOLOGY LABORATORY (1)
This course is utilized activities to interpret the earth's geologic history and augments the topics covered in GLY-1100. These exercises include a review of rocks and minerals interpretation of maps and aerial photography using principles to determine the sequence geologic events, application of paleontologic data, interpretation of depositional environments, stratigraphic correlation, interpreting surface and subsurface structure, and pale geographic exercises. This course can be used for the AA degree.
Prerequisite: GLY1100
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=5.00

GRA1110C APPLIED DESIGN 1 (3)
An introduction to the theory, history and practice of graphic design that explores a graphic designer's role in today's marketplace through lectures, speakers and field trips. Students will survey industry job titles including layout artist, package designer, web designer, advertising and branding design, as well as the increasing role of user experience and social networking design. Students will research and present a detailed examination of one facet of the industry. The class will also address ethics, copyright, and sustainability as well as business practices and professional organizations.
Prerequisite: ART1120C, ART1300C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

GRA1144C WEB PUBLISHING (3)
This course is a basic course in designing web pages, web site architecture and navigation. Students will be instructed in the most current applications used for production of web pages. Proper coding of the pages using current web tools, with consideration of various platforms, will be provided. A special emphasis will be placed on interactivity design and page layout, and proper use of typography and images for delivery on the Internet. The class is portfolio driven, training students to follow a business process for analyzing client needs, conducting research and developing a concept for production within a budget.
Prerequisite: PGY1801C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

GRA1151C ILLUSTRATION DESIGN 1 (3)
This course addresses the concepts and techniques necessary to create computer-generated illustrations for use in print, web and multimedia applications. Students will work with software packages utilized by professional designers. Assignments include the creation of technical illustrations, business graphics (charts, maps, tables, and diagrams) and art for other applications. The class is portfolio-driven, training students to follow a business process for analyzing client needs, conducting research and developing a concept for production within a budget.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

GRA1201C TYPOGRAPHIC DESIGN (3)
This course is an introduction to computerized typography. The emphasis is on the visual effects of type as a design and communication element. Students will form an understanding of the fundamental rules related to type design, such as kerning and leading. The primary focus of the instruction will be in how type is used in contemporary graphic design applications, but some practice in hand lettering will be included as well as a study of the how various type styles are designed. Also included is a study of font management, postscript, and handling of digital files. Students will solve a variety of problems commonly encountered in the production of a body of type for both print and electronic output.
Prerequisite: ART1100
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

GRA2121C PUBLICATION DESIGN (3)
This course introduces the student to principle governing page layout and the design of publications. The industry standard software will be used for the production of professional looking publications which may include magazines, news-letters, catalogs, newspapers, books, or annual reports. Topics covered include the basic principles of effective typographic; the use of grids; integration of graphics and photos into publications; basic information design principles, working with spot, process color and separations, principles of page assembly and other methodologies to design and produce a variety of single- and multi-page publications.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

GRA2152C ADVANCED DIGITAL IMAGE DESIGN (3)
This is an advanced level course where students will solve complex digital imaging, illustration and compositing problems that require both 2-D and 3-D special effects. Students will be introduced to the fundamentals of creating and animating 3-D images using 3-D animation and modeling software packages, including creating objects, building models, animating, creating a scene, applying textures and paint, setting lights and cameras and rendering the final animation. Projects will satisfy the current industry client base which demands that a graphic artist conceive a given graphic idea which can be produced in a variety of print outputs, as well as output for the Web, TV, and multimedia.
Prerequisite: GRA1151C, PGY1801C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=65.00

GRA2157C ILLUSTRATION DESIGN II (3)
This advanced illustration class will expand the students' visual problem-solving vocabulary to include informational graphics, mapmaking and editorial illustration. Illustrations will use digital 2-D and 3-D solutions. In addition, students...
will incorporate natural material and construction into the process of illustration design. For informational graphics, students will research complex ideas and synthesize them into easily understood visual representations.  
Prerequisite: ART1201C, ART1300C  
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

**GRA2171C BRAND AND AD DESIGN (3)**  
This course will introduce advertising and marketing principles. Students will apply design and technical skills introduced in foundation level classes. The focus will be on solving real-world advertising and promotional problems, carrying projects from initial concept to final presentation of the product. Projects will satisfy the current industry client base which demands that a graphic artist conceive a given graphic idea for production in a variety of print outputs, as well as output for the Web, TV, and multimedia. The class is portfolio driven, training students to follow a business process for analyzing client needs, conducting research and developing a concept for production within a budget.  
Prerequisite: GRA1151C  
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

**GRA2180C APPLIED DESIGN II (3)**  
The student will apply all the knowledge acquired in previous courses to this portfolio building class. Projects will cover the full spectrum of graphic design jobs, including advertising, identity systems, packaging, wayfinding systems, and site-specific design. The designer will produce examples to show potential clients and/or employers the range of their skills. Sustainable design ideals will be employed, assessed and communicated to the class with each project. The goal is to find the most eco-friendly design solutions while educating the client and meeting their needs.  
Prerequisite: GRA1110C  
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

**GRA2185C DESIGN PRODUCTION (3)**  
This course is an advanced level course that forms an integral part of the final skills needed to complete the Graphic Design Technology A.S. Degree requirements. It is intended to support the portfolio and internship courses by providing practice in advanced concept formulation and art direction strategies and practical experience in production of their portfolio at a service bureau.  
Prerequisite: GRA2121C  
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

**GRA2190C INTRODUCTION TO GRAPHIC DESIGN (3)**  
This course is an introduction to the theory, practice, materials, techniques, and production methods used in graphic arts, pointing out how various layout techniques lead to a printed piece. Intended for art majors who wish to pursue a BFA degree in graphic design or want to seek entry level employment. This course can be used for the AA degree.  
Prerequisite: ART1201C, ART1300C  
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=20.00

**GRA2191C GRAPHIC DESIGN II (3)**  
Communication and creativity theory for graphic designers, featuring preparation of art for reproduction using the computer as a graphic design problem-solving tool, combining text, image and digital design. Intended for art majors who wish to pursue a BFA degree in Graphic Design or want to seek entry-level employment. This course can be used for the AA degree.  
Prerequisite: GRA2190C  
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=20.00

**GRA2403 PRINCIPLES OF PROJECT MANAGEMENT (3)**  
Students in this course will gain a comprehensive understanding of the skills required of project managers. This includes software presentation training, instruction in monitoring and controlling projects, procurement planning techniques, and an introduction to using project management software.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**GRA2425C GRAPHIC DESIGN PORTFOLIO (2)**  
This course is designed to develop students' strategies for portfolio presentations to employers and clients, demonstrating their critical analysis skills, technical ability and visual expertise. Students will assemble and evaluate their work in order to develop professional graphic design portfolios. Students will also learn to develop alternate visual strategies as they apply to portfolio requirements set by industry standards. Industry will be consulted on a periodic basis to assist in the identification of portfolio requirements.  
Prerequisite: GRA2152C  
Lec Hrs=24 Lab Hrs=24 Oth Hrs=0 Fees=56.00

**GRA2754C WEB DESIGN II (3)**  
To extend students' expertise in web design, this class will add advanced CSS, HTML5, Flash, search engine optimization, content management system and integration, as well as usability assessment and interface design. The student will also integrate social media, podcasting and blogging into web development.  
Prerequisite: GRA2125C  
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=55.00

**GRA2904C GRAPHIC DESIGN INTERNSHIP (3)**  
This course is a culmination of the Graphic Design Technology two year A.S. program. Students will learn the necessary business protocol and job interviewing skills that will place them in an internship situation. The intern will work in a studio setting, e.g., advertising agency, graphic design department of a small or large company, commercial printing business, etc. The experience will involve all duties usually associated with the current graphic design profession. Interns are expected to complete project assignments from start to finish with minimal guidance from the sponsoring entity/establishment.  
Prerequisite: GRA2152C, GRA2425C  
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=55.00

**HBR1120 BEGINNING HEBREW I (4)**  
Fundamental of speaking and understanding reading and writing. Classroom practice and exercises supplemented by language and laboratory sessions designed to develop confidence and a basic proficiency in Modern Hebrew. Student is expected to continue with HBR1121. Special Fee Charged. This course can be used for the AA degree.  
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00
HBR1121 BEGINNING HEBREW II (4)
A continuation of HBR1120. Further development of the basic language skills already mastered. Classroom discussions and practice are supplemented by exercises and multi-media activities designed to develop and enhance communication. Skills and concepts are further polished in HBR 2220.
This course can be used for the AA degree.
Prerequisite: HBR1120
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

HBR2220 INTERMEDIATE HEBREW I (4)
HBR 2220 supplements the groundwork laid in HBR1120 and HBR1121. Classroom discussions and practice are supplemented by exercises and multi-media activities designed to develop and enhance communication and cultural awareness. Students will acquire a basic understanding of Hebrew syntax, grammar, and morphology, as well as an introduction to Hebrew literature of various eras. This course can be used for the AA degree.
Prerequisite: HBR1121
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

HCP0001 HEALTH CAREERS CORE CURRICULUM
The Health Careers Core Curriculum course presents basic knowledge & skills for students majoring in a health science degree program. The course introduces students to a health care delivery system, the health occupations, and teaches basic medical and employability skills.
Lec Hrs=45 Lab Hrs=30 Oth Hrs=0 Fees=100.00

HFT1050 INTRODUCTION TO TOURISM INDUSTRIES ADMINISTRATION (3)
This course provides a survey of the history, organization, problems, opportunities and future trends in the areas which comprise the travel and tourism industries. Emphasis is placed on the economic benefits and social implications of tourism. This course is beneficial to the purchaser of tourism services as well as the marketer. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT1210 SUPERVISORY DEVELOPMENT (3)
This course provides training on the art of supervising employees and the development of sound relations with other departments. It covers methods of controlling costs, development of cost consciousness, cost improvements, techniques in the supervision of employees, and developing sound relations with other departments.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT1941 OPERATIONS AND SERVICE PRACTICUM (3)
This course requires practical work experience or participation in formalized internship program in related disciplines in a approved segment of the hospitality/restaurant/travel industries and is coordinated with a weekly seminar. Faculty makes regular appraisals of the learning progress through on-site visitations and consultation with supervisors. Emphasis is placed on how the job relates to the satisfaction of customer needs. In addition, the essence of the service transaction offered by

the organization is analyzed, including both the tangible and intangible components.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2220 ORGANIZATION AND PERSONNEL MANAGEMENT (3)
This course covers the organization, supervision and direction of operations in the hospitality/restaurant/travel industries. It analyzes the internal organizational structure and its administrative roles and functions. The course considers techniques of employee training, promotions, job specifications, discipline and morale. The course borrows from the behavioral sciences by emphasizing the human dimensions of management.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2250 HOTEL MANAGEMENT (3)
This course provides a study of the growth and progress of the hotel industry and how hotels are developed, organized, financed and operated. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2410 FRONT OFFICE SYSTEMS AND PROCEDURES (3)
This course provides basic training in front office procedures, and focuses on the rooms division of a hotel: front office, housekeeping, guest service, engineering, and security/loss prevention. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2460 FINANCIAL MANAGEMENT (3)
A study of accounting systems for the hospitality/restaurant/travel industries with emphasis on operating statistics and financial reports. The utilization of financial statements by management is studied.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2500 MARKETING (3)
This course emphasizes how to sell and promote the services the hospitality/restaurant/travel industries offer guests. It covers the development of business through personal selling, media advertising and publicity. In addition, the operations of a sales and convention department are studied. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2511 CONVENTION AND GROUP BUSINESS MARKETING (3)
This course covers the functions of the convention organizer and tour wholesaler in relation to the suppliers of travel and hospitality services. The responsibilities of each organization in the marketing of facilities and activities to organizers, retailers, and/or consumers are emphasized.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2600 HOSPITALITY LAW (3)
This course provides a study of the nature and function of our legal system as applied to hospitality, restaurant and travel operations. Operator/guest relationships, contracts, torts, civil rights and insurable risks are emphasized.
Course Descriptions

HFT2721 TRAVEL AGENCY MANAGEMENT & OPERATIONS (3)
This course provides familiarization with travel agency operations including the selling, transporting, storing, advertising, planning, and management of travel services. The course also provides hands-on training in computerized reservations (SABRE) and keyboarding, and incorporates key aspects of managing corporate travel. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2730 TOUR PACKAGING (3)
This course provides a study of how to create, develop and sell package tours. Methods of customizing tours through the proper matching of destinations with market segments are covered.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HFT2942 MANAGEMENT AND CONTROL PRACTICUM (3)
This course requires practical work experience or participation in a formalized internship program in related disciplines in an approved segment of the hospitality/restaurant/travel industries and is coordinated with a weekly seminar. Faculty make regular appraisals of the learning progress through on-site visitations and consultations with supervisors. Emphasis is placed on human relations, motivational techniques and management styles relating to the control of employees, money, and material as they are used to satisfy customer needs. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM1000 INTRO TO HEALTH INFORMATION MANAGEMENT (2)
This course provides an introduction to learning technologies, learning styles, the program, and the profession, and clinical terminologies, clinical terminologies and classification systems used to deliver patient care and comply with the requirements of regulatory and accrediting agencies. Upon completion, students should be able to use learning technologies, apply learning skills and describe the program and profession.
Prerequisite: HSC1531
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM1003 FOUNDATION & FUNCTIONS OF HEALTH INFORMATION (2)
This course offers an overview of the health information management profession. The functions, content and structure of the health record are studied. Datasets, data sources, healthcare delivery systems and the health information technology functions found in all healthcare environments are explored.
Prerequisite: HIM1000
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM1110 HEALTH DATA CONCEPTS (2)
This course provides an introduction to the basic concepts and techniques for managing and maintaining health record systems. Topics include: record content, format and uses of healthcare data, record systems: storage and retrieval, quantitative analysis of health data, forms design and control, release of information, function of indexes and registers, accreditation, certification and licensure standards applicable to healthcare facilities. Through the Virtual healthcare Systems Lab, students will be given access to work on a variety of healthcare electronic system enhancing their technology skills and knowledge such as: Athens/Cerner Electronic Health Records, QuadraMed MPI QuadraMed Smart ID, QuadraMed Encoder, and McKesson Horizons. Students will be given the opportunity to utilize and practice with current software packages common to the industry.
Prerequisite: HIM1000
Pre or Corequisite: HIM1110L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=3.00

HIM1110L HEALTH DATA CONCEPTS LAB (1)
This course provides an introduction to the basic concepts and techniques for managing and maintaining health record systems. Through the Virtual Healthcare Systems Lab, students will be given access to work on a variety of healthcare electronic system enhancing their technology skills and knowledge such as: Athens/Cerner Electronic Health Records, QuadraMed Smart ID, QuadraMed Encoder, and McKesson Horizons. Students will be given the opportunity to utilize and practice with current software packages common to the industry.
Prerequisite: HIM1000
Corequisite: HIM1110
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=43.00

HIM1253 CODING I (3)
This coding course is designed to provide an introduction into basic ICD coding and coding guidelines. The course will focus on defining basic coding definitions, review of coding guidelines, introduction to billing methodology and application of codes to specific basic coding assignments using ICD. This class will be taken in conjunction with the Coding I Lab course, HIM1253L.
Prerequisite: HIM1435 HIM1453
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=29.00

HIM1253L CODING I LAB (1)
This lab course provides HIM students an opportunity to apply basic concepts and techniques for ICD-9-CM coding using actual patient records and simulated patient records; both paper and electronic format from different treatment venues. Students will be guided through the practice coding by an experienced coding instructor with a detail analysis of correct coding technique. Students will be able to assess their own level of proficiency and access assistance in areas of identified coding weakness. Students will be introduced to encoding systems: 3M and QuadraMed.
Prerequisite: HIM1435 HIM1453
Corequisite: HIM1253
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

HIM1260 REIMBURSEMENT METHODOLOGY (2)
This course examines the complex financial systems within today’s healthcare environment and provides an understanding of the basics of health insurance and public funded programs, managed care contracting and how
services are paid. In addition to the step by step details about how each payment system functions, a brief historical review is also provided the student for a greater understanding of the impact has had on all stakeholders. This course will include a review of billing forms, different prospective payment systems and a discussion of claims management. Prerequisite: HIM1000 HIM1253 HIM1253L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM1300 HEALTHCARE DELIVERY SYSTEMS (2)
This fully online course is an introduction to the historical development, current structure, operation, financing, and future directions of the major components of the U.S. healthcare delivery system. A population perspective is used. Upon completion, students should be able to identify the major components, issues and trends in the U.S. healthcare delivery system.
Prerequisite: BSC1085, BSC1085L
Corequisite: HIM1000 HIM1435
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM1435 PATHOPHYSIOLOGY (4)
This course covers the nature, cause, and treatment of human diseases including the diagnostic and therapeutic modalities used for each. This course prepares the HIM student to be able to interpret typical health record data for ICD, CPT coding classification. Basic pharmacological management of various diseases are presented. Upon completion, students should be able to demonstrate an understanding of the diagnosis, management and documentation of human diseases as it relates to job function in the health information management field.
Prerequisite: HSC1531
Pre or Corequisite: HIM1453
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=7.00

HIM1453 SURVEY OF HUMAN STRUCTURE (3)
One semester lecture/laboratory general survey course covering structure and function of the human body designed for health information/informatics management students. This course will prepare the student for the Pathophysiology course, the study of disease processes, related pharmacology and diagnostic services. A systems approach will be used to cover general principles and terminology. Laboratory activities are integrated with the lecture.
Prerequisite: HSC1531
Pre or Corequisite: HIM1435
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=7.00

HIM1800 PROFESSIONAL PRACTICE EXPERIENCE: B (2)
This is an introductory level course giving the students their initial supervised Professional Practice experience in the health information management department. Emphasis is on record assembly, analysis, filing, admission and discharge procedures. Basic doing will be addressed. Upon completion, the student shall have an understanding of the daily functional operations of a health information management department. Each student will be responsible for completion of a Professional Practice I Workbook.
Prerequisite: HIM1253 HIM1260
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=61.68

HIM2012 HEALTH RECORDS LAW (3)
This course focuses on the impact of legal and ethical issues in health information management. Topics include an overview of the branches of government, tort law; confidentiality and release of information, subpoenaed information; record retention and security; information consent; liability; patient rights; negligence and malpractice; and ethics. Upon completion, students should be able to comply with legal requirements and be aware of legislative and regulatory trends.
Prerequisite: HIM1110
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM2112C ELECTRONIC MEDICAL RECORD AND TECHNIQUES (3)
This course will review the history of the electronic health record and current trends in healthcare information applications such as clinical information systems, administrative information systems, and management support systems. Students will explore the transition from a paper-based health record to an electronic health record and associated issues.
Prerequisite: HIM1800
Corequisite: HIM2012 HIM2652
Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=0.00

HIM2214 HEALTH STATISTICS (2)
This course covers the collection, compilation, analysis, verification, and display of healthcare statistics. Topics include: the uses for statistics, basic statistical principles, commonly computed rates, vital health statistics, uniform reporting requirements, data display, and the role of the HIM department.
Prerequisite: HIM1110 MAT0028
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM2232 CODING II (2)
This coding course is designed to build onto the HIM1253 Coding I course by enhancing the students quality of coding and understanding of sequencing for ICD-9-CM. The student will be introduced to basic CPT coding using both a manual system and automated encoder. Introduction to DRG logic, APCs, RBRVS, PPS as well as Coding Guidelines for Hospital-Based Outpatient Services, Emergency Rooms, and Physician Offices. Different levels of HCPCS as well as outpatient reimbursement issues will be covered.
Prerequisite: HIM1253 HIM1253L
Pre or Corequisite: HIM2232L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=57.00

HIM2232L CODING II LAB (1)
This lab course provides HIM students an opportunity to apply basic concepts and techniques for ICD-9-CM and CPT coding using actual patient records and simulated patient records; both paper and electronic format from different treatment venues. Students will be guided through the practice ending by an experienced coding instructor with a detail analysis of the practice ending by an experienced coding instructor with a detail analysis of claims management.
Prerequisite: HIM1253 HIM1253L
Pre or Corequisite: HIM2232
HIM2234 CODING: ADVANCED (3)
This is an advanced coding course giving the student extensive 'hands-on' experience in coding complex and sophisticated cases from inpatient, outpatient and physician office settings typically handled by the coding specialist on the job. Emphasis will be placed on quality of specific coding, sequencing, coding compliance and billing methodology. Students will be expected to code assigned cases utilizing the ICD-9-CM and CPT coding manuals and automated coder/groupers. All coding exercises will be timed, conducted and verified in the classroom.
Prerequisite: BSC1086 BSC1086L HIM2232
Corequisite: HIM2810
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=35.00

HIM2500 PERFORMANCE IMPROVEMENT (2)
This course is an introduction to the principles of performance improvement and quality management in health care. Topics include: clinical quality improvement; utilization management; risk management; medical staff credentialing and peer review; accreditation standards; laws and regulations; tools for data collection, analysis, and display; and the role of the HIM department. Upon completion, students should be able to apply performance improvement techniques; collect, analyze, and display data; and support a range of quality management activities.
Prerequisite: HIM2012
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM2512 SUPERVISION & ORGANIZATIONAL LIFE (2)
This course covers management and supervision principles as they are applied to healthcare settings. A study of the aspects and techniques of planning, organizing, motivating, and controlling is presented with emphasis on communication, collaboration, and decision making.
Prerequisite: HIM2012
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM2652 HEALTH INFORMATION SYSTEMS (3)
This course is an introduction to information technology related to healthcare and the automated tools and techniques for collecting, storing, and retrieving data. Topics include: system analysis, design, and security; file structure, networking, telecommunications, document imaging, medical informatics, the electronic health record, and implementation issues. Activities include HIM computer applications. Upon completion, students should be able to assist in the design, implementation, evaluation, and maintenance of automated information systems in healthcare.
Prerequisite: CGS1100 HIM1800
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIM2810 PROFESSIONAL PRACTICE 2 (2)
This class is a continuation of the supervised professional practice experience in a health information management department. Emphasis is on health information systems, coding, and law and ethics. Upon completion, students should be able to apply health information theory to practice. Each student will be responsible for completion of a Professional Practice II Workbook.
Prerequisite: HIM1800 HIM2012 HIM2232
Corequisite: HIM2234
Lec Hrs=0 Lab Hrs=64 Oth Hrs=119.68

HIM2930 TRANSITION SEMINAR (1)
This course will focus on assisting the student to begin integration into the health information management field by exploring career options, developing a professional development plan, creating a resume, exploring credentialing requirements, and preparing the student to leave the classroom and enter the workplace. Activities conducted in the classroom will assist the student to enter the workplace as a team player with a positive attitude and team communication skills. The course will introduce the student to the preparation needed to sit for the RHIT National Examination by AHIMA.
Prerequisite: HIM2234 HIM2810
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIS2939 SPECIAL TOPICS IN HISTORY (3)
The content of this course will vary, to be determined by the instructor of record. The course is intended to offer students the opportunity for in-depth study of specialized areas and topics in history. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIS2955 HISTORY STUDY ABROAD (3)
A combination of classroom preparation plus foreign travel. Variable content depending on countries visited. Historical background and travel preparation will be included. This course can be used for the AA degree.
Prerequisite: instructor’s approval.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HIS2956 HISTORY TRAVEL STUDY (6)
The same general description applies to this course as is given to the History Study Abroad offered for three semester hours. However, a longer itinerary to be visited will necessitate more extensive course requirements. This course can be used for the AA degree.
Lec Hrs=56 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HLP1081 TOTAL WELLNESS (2)
Total Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Evolving current topics such as nutrition, disease prevention, stress reduction, exercise prescription, and environmental responsibility are integrated to enable the student to understand the lifelong effects of healthy lifestyle choices. This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=16 Oth Hrs=0 Fees=2.00

HLP1087 WELLNESS WORKOUT (1)
This course is an advanced extension of the wellness track classes. It reviews exercise principles and offers an opportunity for pre-testing to aid in Personal Program Development and post-testing for improvement evaluation. An individualized approach is used in helping class members to develop and implement a personal wellness program.

Prerequisites: (any of the following): HLP1081, PEM1116, PEM1131, PEM1141, PEM1181, PEN1171, HSC1101C or instructor's approval.

This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=2.00

HSC101C INTRODUCTION TO HEALTHFUL LIVING

This course provides a personalized introduction to wellness; wellness components of flexibility, muscular strength/endurance, cardiovascular wellness, and body composition; nutrition, weight management, stress management, and how students can apply this information to ensure healthful living. Opportunities are provided to learn updated information on coronary heart disease, cancer, and HIV/AIDS to assess one's personal wellness status and to develop and implement a personal wellness program. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=2.00

HSC1531 MEDICAL TERMINOLOGY

Provides a broad survey of the language of medicine in the health science professions. Emphasis is placed on the building of medical terms from word parts. Pronunciation is practiced utilizing a CD provided with the textbook.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HSC2100 PERSONAL AND COMMUNITY HEALTH

This study of health problems relating to the individual community including mental health, physical fitness, nutrition, the use of tobacco, alcohol and drugs, marriage and family living, safety, and the study of diseases. Elective credit only.

This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HSC2400 FIRST AID AND SAFETY

Accepted practices and training in first aid care of the injured and medical self-help for survival in emergencies. Course includes suggested procedures effective until adequate medical assistance can be obtained. Principles of safety problems and accident prevention are included. Elective credit only. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HUM2700 HUMANITIES TRAVEL STUDY

An examination of the styles and influences of Music, Art, Theatre, Religion, Literature, and Philosophy in selected geographical areas. Course combines classroom preparation and foreign travel. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HUM2701 HUMANITIES TRAVEL STUDY

The same general description applies to this course as is given to the Humanities Travel Study offered for three semester hours. However, a longer itinerary of the location(s) to be visited will necessitate more extensive course requirements.

This course can be used for the AA degree.

Lec Hrs=96 Lab Hrs=0 Oth Hrs=0 Fees=0.00

HUN1202 ESSENTIALS OF NUTRITION & DIET THERAPY

A study of nutritional science the nutrient, interrelationships and the nutritional needs of persons at various stages of life cycle. Particular emphasis will be placed on diet therapy in the modification of disease process. This course is open to all allied health students only or with permission of the instructor. 3 hrs. lec. Term I, II, and III.

This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=12.00

IDH2121 HONORS INTERDISCIPLINARY STUDIES IN GENERAL EDUCATION
ISM3320 INFORMATION SYSTEMS CONTROL (3)
This course presents a balance of the management and the technical aspects of the discipline and addresses knowledge areas of the CompTIA Security+ certification exam throughout. It provides a comprehensive overview of network security and covers communication security, network and applications security, infrastructure security, threats and vulnerabilities, World Wide Web security, cryptography, operational/organizational security, disaster recovery, business continuity, as well as computer forensics. Prerequisite: ISM3013
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ISM3432 APPLIED QUALITY ASSURANCE METHODOLOGY (3)
This course teaches the IT professional the fundamentals of quality assurance for system development and software creation. The learned outcomes will be an understanding of QA factors consisting of software, modeling, testing, training, standards and procedures as well as management's position on quality assurance.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ISM4314 APPLIED PROJECT MANAGEMENT (3)
This course has been designed to be relevant for all professionals confronting project-related tasks, with particular attention given to the information system context. Course content includes an overview of technology, an introduction to software development approaches, facets of project management, and organizational issues related to successful project management.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

ISM4382 GLOBAL INFORMATION SYSTEMS (3)
This course addresses key management issues as they are applied to global information resources management. This course also addresses strategic global systems issues such as hardware, software, Enterprise Resource Planning (ERP), electronic business integration, security and infrastructure support for a variety of industries. Prerequisite: ISM3320
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
Course Descriptions

ITA1120 ELEMENTARY ITALIAN I (4)
Fundamentals of speaking, listening-comprehension, reading, writing, and Italian culture. Classroom practice and exercises are supplemented by laboratory and workbook exercises done on-line weekly. Students expected to continue further implementation and expansion of their proficiencies in ITA1121.
This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

ITA1121 BEGINNING ITALIAN II (4)
A continuation of ITA1120. Further development of the basic skills in speaking, listening-comprehension, reading, writing, selected readings, and appreciation of culture. Classroom practice and exercises supplemented by laboratory and multi-media activities done on-line weekly. This course can be used for the AA degree.
Prerequisite: ITA1120
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

JOU1100 BASIC REPORTING (3)
Pre-professional course providing fundamental instruction and practice in writing as a basis for all upper division courses in journalism. Includes writing in the news style, leads, defining news, types of stories, organization of stories, policy and libel. This course can be used for the AA degree.
Prerequisite: Permission of instructor or Prerequisite: ENC1101
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

JOU1207L MAGAZINE PRODUCTION (3)
Course provides instruction and practical experience in the philosophical and technical aspects of magazine production, including printing processes, copy setting, picture editing, graphic design, and camera ready layout techniques. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU1400L NEWSPAPER PRACTICUM I (1)
Practical application of news writing and editing principles through work with college media. Instructor's approval or Prerequisite: JOU1100
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU1401L NEWSPAPER PRACTICUM II (2)
Continuation of JOU1400L. Students may take JOU1400L and JOU1401L during the same term. Instructor's approval or Pre or Corequisite: JOU1400L
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

JOU1402L NEWSPAPER PRACTICUM III (2)
Continuation of JOU1401L. Practical application of newspaper principles: copy editing, page layout, typesetting, headline writing, picture cropping, rewriting, copy preparation through work with the college newspaper. Instructor's approval or Prerequisite: JOU1400L. JOU2200
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

JOU1440L MAGAZINE PRACTICUM I (1)
Practical application of magazine production, magazine writing, or magazine editing principles through work with college magazine media or internship with community media under academic supervision. Prerequisite: Instructor approval or Prerequisite: JOU1207L
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU1441L MAGAZINE PRACTICUM II (1)
Continuation of JOU1440L. Instructor's approval or Prerequisite: JOU1440L
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU2200 NEWSPAPER EDITING AND MAKEUP
Course provides instruction and practical experience in copy editing, rewriting, headline writing, page design for both makeup copy and advertising, picture cropping and scaling, cutlines, and an introduction to desktop publishing. Instructor's approval or Prerequisite: JOU1100
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU2203 MAGAZINE EDITING
Course provides instruction and practical experience in editing a magazine including human relations, expertise in article writing, copy and picture editing, audience analysis, and legal and economic aspects of editing. This course can be used for the AA degree.
Prerequisite: JOU1100
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=0.00

JOU2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

JST1500 SURVEY OF JEWISH CULTURE
A survey of the development of Jewish culture through a study of the concepts, values, traditions and rituals of Judaism. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

JST1700 THE HOLOCAUST
The historical, political, literary, religious, and philosophical dimensions of the Holocaust. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

JST2400 SURVEY OF JEWISH CIVILIZATION
A survey of the history of Jewish civilization beginning with the origins of the Hebrews, through early Christianity and...
### Course Descriptions

**LAH1004 THE HISTORY OF THE TWO AMERICAS I**  
This course is a study of Latin America from the development and evolution of Amerindian society including the Mesoamerican, Andean and Brazilian worlds, through the conquest and colonization of the region by Europe, ending with the rise of independence by the middle of the 19th century. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LAH1005 THE HISTORY OF THE TWO AMERICAS II**  
This course is a survey of significant social, political, and economic developments of modern Latin America after independence, from the consolidation of the national states to the present. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LEI1000 INTRODUCTION TO RECREATION**  
This course acquaints the individual with the recreation organization and opportunities for leaders in the field. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LEI1260 INTRODUCTION TO FITNESS AND OUTDOOR RECREATION**  
This course will introduce students to the career opportunities available in the field of outdoor recreation/adventure education. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LEI1700 RECREATION FOR SPECIAL GROUPS**  
An overview of the characteristics and needs of members of special groups and how to plan and implement recreational activities appropriate for each group. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LEI2401 SPORTS, FITNESS AND RECREATION MANAGEMENT**  
A course primarily designed for the student to learn about the different aspects of managing recreational programs and events. The student will be exposed to the many and varied needs of developing a quality program or event. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LEI2731C SPORTS, FITNESS AND RECREATION THERAPY**  
An overview of various therapies that can be useful in a recreational setting. This course can be used for the AA degree.  
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=10.00  

**LEI2861 SPORTS, FITNESS, RECREATION TECHNOLOGY AND EQUIPMENT**  
The rapid growth of technology and sophistication of equipment, necessitate the recreation specialist to keep abreast of developments in the marketplace. This course is designed to expose students to hardware, software, and equipment that are commonly used in centers across the nation to attract participants in recreational activities. Opportunities are provided for a hands-on learning experience in this technology and equipment. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LIT1171 JEWISH LITERATURE I: 1800 TO THE HOLOCAUST**  
A study of selected works from the Jewish Enlightenment to 1933. Analyzes the major characteristics of worldwide Jewish literary works. Includes such authors as Sholom Aleichem, Agnon, Bialik, Cahan, and H. Roth. May be used for study abroad. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.  
Prerequisite: Eligibility for ENC1101  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LIT1172 JEWISH LITERATURE II: HOLOCAUST TO PRESENT**  
A study of selected works from the Holocaust to the present. Analyzes the major characteristics of worldwide modern Jewish and Israeli literature. Includes such authors as Weisel, Malamud, Bellow, P. Roth, Ozick, Singer, Oz, Yehoshua and Appelfeld. May be used for study abroad. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LIT1370 THE BIBLE AS LITERATURE**  
A study of literary forms found in the Bible, such as history, biography, short story, parable and lyric poetry. Basic literary analysis of selected portions of the Bible. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00  

**LIT2020 INTRODUCTION TO THE SHORT STORY**  
A survey of the development of the short story, to include analysis of short stories by authors that reflect a diversity of cultural perspectives. This course may include a wide variety of authors such as Baldwin, Borges, Bellow, Camus, Carver, Cather, Chekov, Chopin, Crane, De Maupassant, Faulkner, Fuentes, Hawthorne, Hemingway, Hurston, Kafka, Marquez, O'Connor, Oates, Poe, and Walker, among others. Students must earn a minimum grade of "C" to meet the requirements.
of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2303 GREAT IDEAS IN POETRY (3)
Students will be introduced to a representative selection of poetry from various cultures and time periods. Texts may be selected based on major figures within movements during specific periods, such as Romanticism, Modernism or New Formalism, the Black Arts Movement, the New York School or the San Francisco Renaissance, Confessional Poetry, Performance Poetry or Concrete Poetry, the Beats, Slam Poets, Language Poets or any other emerging forms, writers or groups within the art. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2110 WORLD LITERATURE THROUGH RENAISSANCE (3)
A survey of literature from the ancient, medieval, and early modern world. The works of selected authors may include Homer, Sappho, Plato, Sophocles, Ovid, Confucius, Lao Tzu, Dante, Chaucer, Boccaccio, Cervantes, and Shakespeare. Texts may also include excerpts from the Old and New Testaments, The Koren, Bhagavad-Gita, The Rubaiyat of Omar Khayyam, and The Arabian Nights. Upon successful completion of the course, students will comprehend the significant literary figures, mythologies, and historical and philosophical movements in world literature masterpieces. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2120 WORLD LIT RENAISSANCE TO PRESENT (3)
Students will be introduced to a representative selection of world literature from the seventeenth century to the present. Texts may be selected from major literary figures such as Moliere, Voltaire, Rousseau, Franklin, Equiano, Wollstonecraft, deGournay, Tolstoy, Gandhi, Camus, Lessing, Eliot, Neruda, and Garcia-Marquez, Erdrich, Kineaid, and Lahari. Upon successful completion of the course, students will be exposed to significant authors, themes, literary genres, and historical and philosophical movements in world literature masterpieces. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2310 LITERATURE OF THE SUPERNATURAL & SCIENCE FICTION (3)
A survey course of science fiction, high fantasy, and dark fantasy/horror literature. Students will examine works that cover such topics as the future, technology, science, other worlds, paranormal life forms and occurrences, aberrant psychology, and imaginary societies. This course may include readings from a wide variety of authors such as Isaac Asimov, Ray Bradbury, Michael Crichton, Mary Shelley, Edgar Allan Poe, Stephen King, J.R.R Tolkien, C.S. Lewis, J.K. Rowling, Clive Barker, and Lord Dunsany. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2341 MYSTERY FICTION (3)
A discussion of mystery fiction by investigation of the plot, characters, settings, styles, motifs, and development of the most representative authors of detective, police, procedural, spy, and mystery thriller fiction. Includes authors such as Poe, Christie, Doyle, and Hammett. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2510 MALE FEMALE IMAGES IN LITERATURE (3)
An exploration of the ways literature represents and perpetuates sex roles and stereotypes. Readings include drama, short stories, novels, and poetry from classical to contemporary. Prerequisite: Eligibility for ENC1101
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2935 SEMINAR IN LITERATURE (3)
Literary topics of special interest to students. Course offerings may be in such areas as western literature, the study of the greater novels, or ethnic literature. Class discussions may also include films. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

LIT2953 TRAVEL SEMINAR IN LITERATURE (3)
A combination of classroom preparation plus travel. Variable content depending on area to visited. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC1105 COLLEGE ALGEBRA (3)
A college algebra course containing topics such as solving, graphing and applying linear and quadratic equations and inequalities, exponential and logarithmic properties; linear, quadratic, rational, absolute value, square root, cubic, and reciprocal functions operations, compositions, and inverses of functions; and systems of equations and inequalities, with applications throughout the course. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course required. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: MAT1033
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=23.00

MAC1114 TRIGONOMETRY (3)
This course, in conjunction with MAC1140, is designed to prepare the student for the study of calculus. Topics include a functional approach to trigonometry, trigonometric equations; trigonometric identities; solving triangles; DeMoivre’s Theorem; vectors; polar coordinates; and parametric equations. A graphing calculator may be required. Recommendation of the Mathematics Department or at least
a grade of "C" in the prerequisite course is required. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: MAC1105
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC140 PRE CALCULUS ALGEBRA (3)
This course, in conjunction with MAC1114, is designed to prepare the student for the study of calculus. Topics include sequences; series; mathematical induction; matrices; determinants; and systems of equations. Also included are polynomial, rational, exponential, and logarithmic functions and equations; and polynomial and rational inequalities. Functions and graphs are emphasized. A graphing calculator may be required. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Prerequisite: MAC1105
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC147 PRECALCULUS ALGEBRA AND TRIGONOMETRY (5)
This course is designed to satisfy the dual requirements of MAC1114 and MAC1140, thus preparing the student for the study of calculus. In this course the student will study various function families (e.g. polynomial, exponential, logarithmic, trigonometric) from both analytic and graphical viewpoints, and will use them to model real-life situations. The student will be exposed to additional topics that will deepen their mathematical understanding, including systems, augmented matrices, sequences and series, and parametric functions. A graphing calculator may be required. Recommendation of the Mathematics Department or at least a grade of "B" in the prerequisite course is required. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: MAC1105
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC2233 CALCULUS FOR BUSINESS, SOCIAL AND LIFE SCIENCES (3)
This is a general education course which includes the college-level skills of calculus such as: functions, graphs, limits, differentiation, integration, average and instantaneous rates of change, and other applications. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Prerequisite: MAC1105
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC2311 CALCULUS AND ANALYTICAL GEOMETRY I (5)
This is the first of a three-course sequence in calculus. Students may need to a graphing calculator throughout the sequence of courses. Topics include: analytic geometry, functions, limits, continuity, derivatives and their applications, transcendental functions, antiderivatives, and definite integrals. Certain sections of this course may require the use of a graphing calculator. Recommendation of the Mathematics Department or at least a grade of "C" in each of the prerequisite courses is required.
Prerequisite: MAC1114 MAC1140
Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC2312 CALCULUS AND ANALYTICAL GEOMETRY II (5)
This is the second of a three-course sequence in calculus. Topics include techniques of integration, conics, polar coordinates, indeterminate forms, L'Hopital's Rule, proper integrals, infinite series, parametric equations, improper integrals, vectors, volume, length, surface area, work, and other applications of integration. A graphing calculator may be required in certain sections of this course. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required.
Prerequisite: MAC2311
Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAC2313 CALCULUS AND ANALYTICAL GEOMETRY III (5)
This is the third of a three-course sequence in calculus. Topics include vectors in 3 space, 3 dimensional surfaces, multivariate functions, cylindrical and spherical coordinates, multiple integrals, partial derivatives, vector fields, Green's Theorem, and Stokes' Theorem. A graphing calculator may be required in certain sections of this course. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required.
Prerequisite: MAC2312
Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAD2014 DISCRETE MATHEMATICS (3)
This course will emphasize mathematical theory, formal methods of proof, and applied problem-solving techniques. Topics include formal proof, sets, logic, functions, probability, relations, graphs, trees, and Boolean algebra. Recommendation of the Mathematics Department or Prerequisite: MAC1140
Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAE3143 INTERACTIVE MIDDLE SCHOOL MATH (3)
This course is designed for students who are majoring in middle and secondary mathematics education and who will be obtaining teaching certification in grades 5-9 and 6-12. In this course students learn principles of effective curriculum design and assessment and apply these principles by designing and developing interactive mathematics curriculum.
projects for middle school students. This course is requires structured clinical placement in which students present their projects in a middle school classroom environment. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required certification. (20 school-based hours) Prerequisite: MAE4320
Pre or Corequisite: MAE3941
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

MAE3941 TEACHING MIDDLE AND SECONDARY SCHOOL MATH (3)
This course is designed to provide the student with the opportunity to apply learned concepts by observing and teaching small groups and whole class lessons in the mathematics classroom. Extensive Writing Component in the form of a journal is required. Forty hours (40) of structured school-based hours is required.
Prerequisite: MAE4320
Pre or Corequisite: MAE3143
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

MAE4310 METHODS OF TEACHING MATH IN ELEMENTARY SCHOOL (3)
This course introduces conceptually and developmentally appropriate mathematics content based on the five content areas identified by the Florida Sunshine State Standards. These are Numeration & Number Sense, Geometry, Measurement, Algebraic Thinking, and Data Analysis & Probability. Within these content areas, pre-professional educators will learn techniques consistent with the national process standards and research-based procedural strategies. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for teacher certification. Fifteen hours of field placement are required.
Prerequisite: EDF3280
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

MAE4320 METHODS OF TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3)
This course is designed to introduce methods and strategies that have been proven to be effective for teaching middle school mathematics. Topics in appropriate instructional techniques and selection of appropriate resources for diverse classroom activities. Additional topics include real world applications, the use of technology, understanding the diverse learner, multiple means of assessment and learning styles. The pre-professional educator learns principles of effective curriculum design and assessment and applies these principles by designing and developing interactive mathematics curriculum projects for middle school students. This course addresses specific Sunshine State Standards subject matter competencies and pedagogy pertinent to the discipline. 20 hours field.
Prerequisite: EDF3280
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

MAE4945 STUDENT TEACHING IN MATHEMATICS (11)
This course is designed to "provide students with multiple opportunities to practice implementing the 12 Florida Educators Accomplished Practices including effective planning, instruction, management and assessment techniques in a real-world middle and high school classroom setting under the supervision of a certified teacher." Lec Hrs=12 Lab Hrs=0 Oth Hrs=525 Fees=30.25

MAN2021 INTRODUCTION TO MANAGEMENT (3)
This course covers fundamental management principles and concepts. Emphasis is placed on the management functions of planning, organizing, staffing, directing and controlling. Principles of scientific management, motivation, and economic analysis are studied relative to their use in business decisions. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN2604 INTERNATIONAL BUSINESS ENVIRONMENT (3)
A basic course in international business theory and practice focusing on the challenges of managing the operations of an international business in diverse legal, political, economic, and cultural environments. Emphasis is placed on strategic planning and decision-making for the international operations of domestic, foreign and multinational corporations.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN3162 CUSTOMER RELATIONS FOR MANAGERS (3)
This course teaches relationship building for all customers of an organization. The impact of culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN3240 APPLIED ORGANIZATIONAL BEHAVIOR (3)
This course teaches students individual and group behavior in organizations. Students develop an understanding of how organizations can be managed more effectively. Course content includes motivation, group dynamics, conflict resolution, goal setting and rewards, job design, work stress, power/politics, and organizational change and development.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN3303 MANAGEMENT AND...
LEADERSHIP  
This course teaches students the basic concepts, principles, and techniques of business leadership. Emphasis is on developing a solid leadership foundation while centering in the real themes, demands, and opportunities of an evolving and dynamic business workplace. The course incorporates basic leadership skill development as it relates to the core aspects of management practices.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN3310 HUMAN RESOURCE MANAGEMENT  
This course introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. The approach will focus on current issues and applications.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN3930 SEMINAR IN BUSINESS AND MANAGEMENT  
This course focuses on current and emerging issues in business management. Its format and topic will vary but will be a full day or half day seminar conducted by one or more industry subject matter experts who will address a specific business and management topic such as financial markets, international trade, human resources, cultural issues or economic subjects. The requirements of each student will vary with the topics in question. This course may be taken 2 times for a total of 2 credits.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4102 MANAGING CULTURAL DIVERSITY  
This course represents the basic concepts, principles, and techniques associated with leading cultural diversity in the global marketplace. Emphasis will be on the students developing an understanding of the interplay between leadership, cultural diversity, and the global business models. Students will also gain an understanding of how these concepts relate to and are applied in the regional markets like Asia, Latin America, Europe, Africa and the Middle East.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4120 LEADERSHIP CHALLENGES AND SUPERVISION  
This course teaches the application of leadership theories, which include skill formation to develop leadership abilities. Team building skills are emphasized and discussed to enhance leadership effectiveness. Students learn the importance of visioning in their organizations.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4504 OPERATIONS MANAGEMENT  
This course teaches the operational decision-making management techniques to improve the processes and productivity in organizations. Topics discussed are quality and outcomes; efficiency; forecasting; work flow processes; inventory control; design of goods and services; waiting lines; and critical path. Managing a project from beginning to end, including how to identify needs, and define, assign, and track items, is addressed.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4570 PROCUREMENT MANAGEMENT  
This course is an introduction to the concepts, principles, and techniques of purchasing physical resources. Students will develop a basic knowledge of sound procurement practices within a managerial setting for all types of organizations.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4702 STRATEGIC MANAGEMENT AND POLICY  
This course emphasizes strategic planning and strategy implementation in an organization. Students learn how to perform internal and external audits, identify problems, and formulate goals and objectives. Students will develop action plans, and evaluate the effectiveness of the outcome of the plan. Case studies are used to promote decision-making abilities.
Pre or Corequisite: BUL3130 FIN4460 GEB3213 MAN3240 MAN3303 MAN3310 MAN3930 MAN4102 MAN4120 MAN4504
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAN4900 CAPSTONE PROJECT  
This capstone course will provide the opportunity for the student to demonstrate that he/she has learned the material from the program and can apply it in the real world. It should be taken during the student's last semester at the college. It provides to the student with the opportunity to develop a plan to solve a problem dealing with management and organizational leadership issues of today. The student will choose one major plan to address the problem in detail.
Pre or Corequisite: BUL3130 FIN4460 GEB3213 MAN3240 MAN3303 MAN3310 MAN3930 MAN4102 MAN4120 MAN4504
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAP2302 DIFFERENTIAL EQUATIONS  
Topics include the classification, solution and application of differential equations, including numerical methods, Laplace transforms, linear systems, and series solutions. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required. This course may be taken for honors credit with the permission of the instructor.
Prerequisite: MAC2312
Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAR101 PRINCIPLES OF MARKETING  
An introductory course covering the marketing management process. Special topics include the marketing manager's role in a market-directed economy, marketing objectives, strategic planning, and developing marketing mixes for target markets. Material is presented as it relates to the four "P"s of marketing: product, place, promotion, and price. As a learning activity, students analyze and prepare case studies of businesses engaged in manufacturing, wholesaling, retailing,

Pre or Corequisite: BUL3130 FIN4460 GEB3213 MAN3240 MAN3303 MAN3310 MAN3930 MAN4102 MAN4120 MAN4504
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
and service. Students will have the opportunity to participate in Delta Epsilon Chi activities. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAR2141 INTERNATIONAL MARKETING (3)
This course examines basic marketing principles related to business in an international setting. Emphasis is placed on the role of the international marketing manager in the development of marketing strategies for a variety of markets in diverse cultural and economic situations. Topics covered include the decision-making process in the area of foreign market analysis, target market identification, product planning, promotion, and channels of distribution. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAS2103 LINEAR ALGEBRA (3)
A first course in linear algebra, emphasizing the algebra of matrices and vector spaces. Recommended for students majoring in mathematics or related areas. Recommendation of the Mathematics Department or at least a grade of "C" in each of the prerequisite courses is required. This course may be taken for honors credit with the permission of the instructor.

Prerequisite: MAC1114 MAC1140
This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAS4300 ABSTRACT ALGEBRA WITH INTRODUCTORY NUMBER THEORY (3)
A course for math and math education majors. Abstract algebra is designed for the student experienced with using mathematical calculations to solve problems, and who now wishes to analyze the underlying justifications for these calculations’ legitimacy. In MAS4300 the student will discover properties shared by seemingly disparate mathematical structures called groups, rings, and fields, by abstracting their common underlying features and creating proofs bases upon these commonalities. Number theory topics that are foundational to this course will be studied as well.

Prerequisite: MAC2311, MAD2104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAT0018 DEVELOPMENTAL MATHEMATICS I (4)
A course to improve the abilities of the student who has had difficulties in arithmetic. This course will help the student learn how to read the language of mathematics, to develop problem solving skills, and improve basic arithmetic, geometric and algebraic skills. This course includes college-level academic skills in arithmetic and geometry and is nontransferable. Credit for this course may not be used to meet degree requirements.

Corequisite: MAT0018L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAT0018L DEVELOPMENTAL MATHEMATICS I LAB (0)
A course designed to improve the student's abilities with arithmetic, basic algebra, and problem solving. Topics to be studied include number families, arithmetic, order of operations, geometric formulas, unit analysis, linear equations in one variable, and data analysis. Problem solving is an integral part of this course. This course teaches the student to understand and communicate concepts of arithmetic and algebra, both orally and written, and helps prepare the student for college-level mathematics and math-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted.

Pre or Corequisite: MAT0018
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=21.00

MAT0022 DEVELOPMENTAL MATHEMATICS COMBINED (8)
A course designed to satisfy the requirements of both MAT0012 and MAT0024 in one semester. Topics to be studied include arithmetic with whole numbers, integers and rational numbers, linear equations and inequalities in one variable, factoring, and basic linear graphing. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. This course helps prepare the student for college-level mathematics and math-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted. To pass the course, students must pass mandatory Florida State Examination.

Pre or Corequisite: MAT0022L
Lec Hrs=96 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MAT0022L DEVELOPMENTAL MATHEMATICS COMBINED LAB (0)
A course designed to satisfy the requirements of both MAT0012 and MAT0024 in one semester. Topics to be studied include arithmetic with whole numbers, integers and rational numbers, linear equations and inequalities in one variable, factoring, and basic linear graphing. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. This course helps prepare the student for college-level mathematics and math-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted.

Pre or Corequisite: MAT0022
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=20.00

MAT0028 DEVELOPMENTAL MATHEMATICS II (4)
A course designed to broaden the student's arithmetic and equation-solving skills to include solving linear inequalities in one variable, polynomial factoring, solving quadratic equations, laws of exponents, rational and radical expressions, and graphing lines. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. This course enhances the student's problem-solving skills, and helps prepare the student for college-level mathematics and mathematics-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted. To pass this course, the student must pass a mandatory Florida State Examination.

Prerequisite: MAT0018
Corequisite: MAT0028L
MAT0028L DEVELOPMENTAL MATHEMATICS II LAB (0)
A course designed to broaden the student's arithmetic and equation-solving skills to include solving linear inequalities in one variable, polynomial factoring, solving quadratic equations, laws of exponents, rational and radical expressions, and graphing lines. Problem solving involving real-life scenarios is an integral part of this course. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. The course enhances the student's problem-solving skills, and helps prepare the student for college-level mathematics and mathematics-based courses. It is nontransferable. Due to the nature of this course, calculators are not permitted. To pass this course, students must pass a mandatory Florida State Examination.
Pre or Corequisite: MAT0028
Lec Hrs=48 Lab Hrs=0 Other Hrs=0 Fees=0.00

MAT1033 INTERMEDIATE ALGEBRA (3)
A course designed for students with strong arithmetic skills (without requiring a calculator) and an algebra background, such as solving linear equations in one variable and factoring polynomials. This course will extend students' algebra skills to include solving radical, rational, quadratic & absolute-value equations, and recognizing relationships between radical expressions and rational exponents. Complex numbers are introduced in this course as well. Problem solving involving real-life scenarios is an integral part of this course. In this course, students will enhance their problem-solving abilities and their ability to communicate concepts of algebra in the language of mathematics, both orally and written.
Prerequisite: MAT0028
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Other Hrs=0 Fees=24.00

MCB2010 MICROBIOLOGY (3)
An introduction to microbiology emphasizing principles of basic morphology, physiology modes of transmission, biochemistry and genetic mechanisms. It will include a survey of representative types of microorganisms and the role of pathogenic organisms in causing diseases and infections. Prerequisites: Four hours of coursework in the biological sciences, including laboratory, and three hours of chemistry, with a minimum grade of "C".
Placement by Testing Department or
Prerequisite: BSC1085, BSC1085L, CHM1032
Pre or Corequisite: MCB2010L
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Other Hrs=0 Fees=0.00

MCB2010L MICROBIOLOGY LABORATORY (1)
This lab course will complement Lecture topics and include the application of fundamental techniques in the isolation cultivation, and identification of microorganisms. Prerequisite: Four hours of coursework in the biological sciences, including Laboratory, and three hours of chemistry, with a minimum grade of "C". Two 1.5 hour sessions per week. Placement by Testing Department or
Prerequisite: BSC1085 BSC1085L CHM1032
Pre or Corequisite: MCB2010
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Other Hrs=0 Fees=46.00

MCB3020 GENERAL MICROBIOLOGY (3)
Structure, nutrition and growth of microorganisms; characteristics of representative microorganisms and viruses; metabolic properties and introduction to microbial genetics, pathogenicity, ecology and industrial applications of microorganisms.
Prerequisite: BSC1010 BSC1010L BSC1011 BSC1011L CHM1045 CHM1045L CHM1046 CHM1046L
Corequisite: MCB3020L
Lec Hrs=48 Lab Hrs=0 Other Hrs=0 Fees=0.00

MCB3020L GENERAL MICROBIOLOGY LAB (1)
This laboratory course will complement lecture topics and include the application of fundamental techniques used in the isolation, cultivation and identification of microorganisms and viruses.
Prerequisite: BSC1010 BSC1010L BSC1011 BSC1011L CHM1045 CHM1045L CHM1046 CHM1046L
Corequisite: MCB3020L
Lec Hrs=48 Lab Hrs=0 Other Hrs=0 Fees=52.00

MEA0005 INTRODUCTION TO MEDICAL ASSISTING (1)
An overview of medical assisting and related health professions including duties and responsibilities. Public relations and interpersonal relationships of the healthcare team members are emphasized and will include therapeutic communication skills. Study of the various medical specialties and the history of medicine will be included.
Prerequisite: Program admission
Lec Hrs=32 Lab Hrs=0 Other Hrs=0 Fees=0.00

MEA0204 CLINICAL PROCEDURES (2)
Designed to orient the medical assistant to all phases of patient care in the physician's examining room. Discussion of basic principles involved relating to: vital signs, physical examination, minor surgery, instrumentation sterilization, preparation of medications, physical therapy modalities and electrocardiography will be included. Approved uniform required.
Pre or Corequisite: HSC1531 MEA0204L
Lec Hrs=64 Lab Hrs=0 Other Hrs=0 Fees=0.00

MEA0204L CLINICAL PROCEDURES LABORATORY (2)
Laboratory portion of MEA0204. Designed to orient the medical assistant to all phases of patient care in the physician's examining room. Practice of basic principles involved relating to vital signs, physical examination, minor surgery, instrumentation sterilization, preparation and administration of medications, basic principles of nutrition and physical therapy modalities will be studied. Approved program uniform required. Special Fee Charged.
Pre or Corequisite: MEA0204
Lec Hrs=0 Lab Hrs=64 Other Hrs=0 Fees=30.00

MEA0233 ANATOMY AND PHYSIOLOGY FOR MEDICAL ASSISTING (3)
A basic anatomy and physiology course designed to provide instruction on human body structure, function, and associated pathology.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MEA0242 PHARMACOLOGY FOR THE MEDICAL ASSISTING (2)
An introduction to medications, their classifications, dosage, administration, and the legal and ethical considerations applied.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=30.00

MEA0255 MEDICAL OFFICE PROCEDURES I (1)
Lecture portion of MEA0255L includes discussions in a classroom setting regarding urinalysis, microscopy, specimen collection and preparation, and basic office Microbiology/Bacteriology. Consists of 4 hours of lecture on a mini-semester twice a week. Special Fee Charged.
Pre or Corequisite: HSC1531 MEA0255L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

MEA0255L MEDICAL OFFICE LAB PROCEDURES I (1)
Laboratory portion of MEA0255. Includes practice regarding urinalysis, and basic office Microbiology/Bacteriology. Consists of 4 hours of laboratory on a mini-semester. Professional uniform required.
Pre or Corequisite: HSC1531 MEA0255L
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=30.00

MEA0256 MEDICAL OFFICE PROCEDURES II (1)
Lecture portion of MEA0256L. Includes instruction in basic office hematology, immunology and chemistry. Professional uniform and shoes required. Special Fee Charged.
Pre or Corequisite: HSC1531 MEA0256L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

MEA0256L MEDICAL OFFICE LABORATORY PROCEDURE (1)
Lab portion of MEA0256. Includes laboratory practice of basic office hematology, immunology and chemistry. Professional uniform and shoes required. Special Fee Charged.
Corequisite: MEA0256L
Pre or Corequisite: HSC1531
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=30.00

MEA0258 RADIOLOGY FOR THE MEDICAL ASSISTANT (2)
Provides instruction in the basic principles of X-ray production, physics, radiographic equipment, imaging, processing, radiobiology, and radiation safety.
Prerequisite: Program admission or department permission.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MEA0259 RADIOLOGY FOR MEDICAL ASSISTING PART II (2)
Provides instruction in radiographic anatomy, positioning, procedures, and pathology of the upper and lower extremities, shoulder girdle, pelvis, spine, bony thorax, chest, abdomen, skull, facial bones, and sinuses.
Prerequisite: MEA0258

Pre or Corequisite: MEA0259L
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

MEA0259L RADIOLOGY FOR MEDICAL ASSISTING PART II LAB (1)
Laboratory portion of MEA 0259. Practical application of the principles of radiation protection, radiographic technique, ion, film handling and processing, darkroom operation, radiographic positioning and procedures related to the upper extremities, lower extremities, and chest. Special Fee Charged.
Prerequisite: MEA0258
Corequisite: MEA0259
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=30.00

MEA0334 ADMINISTRATIVE OFFICE PROCEDURES (2)
Deals with financial management of the medical office. Basic Accounting procedures consisting of pegboard, billing, collections, coding, payroll processing, banking and medical transcription application are included. Students will be provided with the opportunity to learn fundamentals of health insurance practice in filing insurance claims, diagnostic and procedural coding, setting appointments, managing the medical record, processing mail and other financial responsibilities associated with the medical office. Discussion regarding the different types of insurance and manage care plans and general clerical functions will be included. Medico legal and ethical responsibilities regarding financial aspects of the medical office will be studied.
Corequisite: MEA0334L
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MEA0334L ADMINISTRATIVE OFFICE PROCEDURES LAB (1)
Laboratory portion of MEA0271. Deals with financial management of the medical office. Basic accounting procedures consisting of pegboard, billing, collection, coding, payroll processing, banking and medical transcription application are included. Students will be provided with the opportunity to learn fundamentals of health insurance, practice in filling insurance claims, diagnostic and procedural coding, setting appointments, managing the medical record, processing mail and other financial responsibilities associated with the medical office. Discussion regarding the different types of insurance and manage care plans and general clerical functions will be included. Medico legal and ethical responsibilities regarding the financial aspects of the medical office will be studied.
Corequisite: MEA0334
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=10.00

MEA0382 MEDICAL LAW AND ETHICS (1)
The ethics of medicine and medical practice are studied. Legal requirements and implications to the medical professional are stressed.
Prerequisite: Program Admissions.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MEA0540 BASIC ELECTROCARDIOGRAPHY FOR MEDICAL ASSISTANTS (1)
This course will discuss a brief history of electrocardiography, a brief discussion of the cardiovascular system, the role of the Medical Assistant, the care and use of
the electrographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and mounting the EKG. Ambulatory cardiac monitors will be studied. Corequisite: MEA0540L
Lec Hrs=37 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MEA0540L BASIC ELECTROCARDIOGRAPHY FOR MEDICAL ASSISTING LAB (1)
Laboratory portion of MEA0540. This course will emphasize the role of the Medical Assistant, the care and use of the electrographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and mounting the EKG.
Corequisite: MEA0540
Lec Hrs=0 Lab Hrs=38 Oth Hrs=0 Fees=10.00

MEA0800 PRACTICUM IN MEDICAL ASSISTING (7)
Student assigned to physician’s office, clinic, or laboratory for a total of two hundred hours. Conference meetings will be arranged on an individual or group basis at a time and place to be arranged by the student and the coordinator. Attendance at group orientation prior to assignment is mandatory. Prerequisite: all courses suggested in Term I. Corequisite: all courses suggested in Term II.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=206 Fees=30.25

MEA0952 PRACTICUM IN MEDICAL ASSISTING (0)
Lecture course designed to serve as a review for medical assisting students in preparation for their national certification examination. Selected areas of the curriculum will be emphasized as needed.
Corequisite: MEA0800
Lec Hrs=38 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MGF1106 MATHEMATICS FOR LIBERAL ARTS I (3)
This is a general education course which includes the college-level skills not included in the courses MAT0012 Pre-Algebra, MAT0024 Elementary Algebra, and MAT1033 Intermediate Algebra. The course will include topics in logic, geometry, set theory, probability, and statistics. This course will also emphasize applications to real world situations and the integration of other disciplines, including, but not limited to, business and the physical sciences. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required. Prerequisite: MAT1033
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MGF1107 MATHEMATICS FOR LIBERAL ARTS II (3)
This is a general education course which includes college-level skills from a variety of mathematical topics. The course will include at least four selected topics from among: mathematics of finance; linear and exponential functions; number systems; history of mathematics; elementary number theory; graph theory; numerical methods and algorithms; game theory; voting and apportionment theory; and student project(s) (strongly recommended). This course will also emphasize applications to real-world situations and the integration of other academic disciplines, including (but not limited to) business and the physical and social sciences. Recommendation of the course). Recommendation of the Mathematical Department or at least a grade of "C" in the prerequisite course is required. Prerequisite: MAT1033
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MHF4404 HISTORY OF MATHEMATICS (3)
The main aim of this course is to introduce the student to the study of the history of Mathematics. The study will include the development of mathematics through history, the impact of mathematics on society and how mathematics has broadened our knowledge of the world. Throughout the course students will be shown and encouraged to discover connections to mathematics as it is applied today. The course is designed to be of interest to persons of various backgrounds. This will include math students who want to understand the development of mathematics, teachers of mathematics at all levels and those students who have an interest in social and cultural history. Prerequisite: MAC2311 MAD2104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA1021 SALESMANSHIP (3)
Through a combination of principles and techniques, this course identifies the why, what, how and when of selling. Students develop skills in prospecting, opening the sale, presenting customer benefits, overcoming objections, and closing the sale. Students will prepare an oral presentation based on the DECA Sales Representative contest. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA1511 ADVERTISING (3)
This course introduces the use of promotional strategy and marketing communications in achieving marketing objectives. It focuses on how product features/benefits can be translated into promotional appeals that will influence customer purchasing behavior. Topics include promotional objectives, product positioning, selecting media, creative analyses, budgeting and measuring promotional effectiveness. As a learning activity, students prepare an advertising campaign for a product, business, or non-profit organization. Students will have the opportunity to participate in Delta Epsilon Chi activities. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA1930 SEMINAR I: MARKETING IN PERSPECTIVE (3)
This course includes marketing management related activities such as individual projects in promotion and entrepreneurship, marketing research and career planning. The students have the opportunity to develop leadership skills through participation in Delta Epsilon Chi activities. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA2042 RETAILING (3)
This course provides an introduction to the management functions unique to retail store operations. Special topics include department store organization, shrinkage prevention, store location and layout, shopping centers, and merchandising. Upon successful completion of this course, students shall be able to demonstrate competencies needed in retailing positions at the mid-management and owner-management level.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA2931 SEMINAR II: RESEARCH IN MARKETING (3)
This course includes marketing management related activities such as individual projects in advertising, promotion, entrepreneurship, marketing research and career planning. Students will expand and enhance the knowledge gained in the prerequisite course Marketing Seminar I. Students will have the opportunity to develop leadership skills through participation in Delta Epsilon Chi related activities.
Prerequisite: MKA1930
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA2932 SEMINAR III: MARKETING MANAGEMENT (3)
This course includes marketing management related activities such as individual projects in promotion and entrepreneurship, marketing research and career planning. The students have the opportunity to develop leadership skills through participation in Delta Epsilon Chi related activities.
Prerequisite: MKA1930 MKA2931
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MKA2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Students will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MMC1000 INTRO TO MASS COMMUNICATION (3)
Overview of contemporary mass media and its historical background. Includes processes and effects of media messages on the individual and society. Deals with the media industry, its responsibilities, legalities, and careers. Media discussed may include newspapers, magazines, books, radio, television, advertising, public relations, and the movie and recording industries. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MNA1611 INTRODUCTION TO CUSTOMER SERVICE (3)
This course provides the student with the basic concepts and current trends in the customer service industry. Through actual case studies, the students analyze organizations which have implemented successful customer service strategies.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MNA1821C INTRODUCTION TO E-COMMERCE (3)
This course examines the history, basic, tools, and other important issues surrounding the many forms of Electronic Commerce. The students develop skills and gain knowledge and experience with a networked community designed for business function and transactions. Subject areas include: types of E-Commerce; E-Marketing; E-Accounting; E-Customer Service; effective E-Commerce solutions and the development process.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MNA1822C MANAGEMENT OF E-COMMERCE (3)
This course examines the management functions unique to Internet marketing and sales. Subject area include infrastructure knowledge; technical requirements; designing security solutions; content management; successful commercial packages; and the globalization of E-Commerce.
Prerequisite: MNA1821C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MNA2345 PRINCIPLES OF SUPERVISION (3)
This course provides an overview of fundamentals of supervision and the management of people. It emphasizes the role of supervision in business organizations, by focusing on supervisory processes; examining functions of planning, organizing, staffing, directing, controlling and their relationships to daily responsibilities of the supervisor. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MNA2823C E-COMMERCE CASE STUDIES (3)
Students will develop an E-business firm build a site for that business, and compare businesses in various industries. They will learn how an E-Business compared to contrasts from a land-based business with a hands-on approach.
Prerequisite: MNA1822C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MNA2905 INDEPENDENT STUDY IN INDUSTRIAL MAN (3)
A directed study course available to both majors and non-majors who wish to investigate a particular concern or related issue in the field of Industrial Management. The student will make application for the course to the program manager. Prerequisite: All students must contact the Program Manager to obtain registration approval.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

MNA2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of learning objectives and employer evaluations. Prerequisite: Program Manager approval. All students must contact the program manager to obtain registration approval.
Lec Hrs=0 Lab Hrs=144 Oth Hrs=0 Fees=0.00
MSL1001 FOUNDATIONS OF OFFICERSHIP (2)
Army ROTC: Examines the unique duties and responsibilities of officers, and the organization and role of the Army, reviews skills pertaining to fitness and communication, and analyzes Army values and expected ethical behavior. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

MSL1002 BASIC LEADERSHIP (2)
Army ROTC: Presents fundamental leadership concepts and doctrine, student will practice basic skills that underlie effective problem solving and examine the officer experience. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

MSL2101 INDIVIDUAL LEADERSHIP STUDIES (2)
Army ROTC: Develops knowledge of self, self-confidence, individual leadership skills, problem solving and critical thinking skills, and improves communication and conflict resolution skills. This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSL2102 LEADERSHIP AND TEAMWORK (2)
Army ROTC: Focuses on self-development by gaining knowledge of self and group processes and by challenging current beliefs, knowledge and skills. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=16 Oth Hrs=0 Fees=0.00

MSS0001 MEDICAL ETHICS AND STANDARDS FOR MASSAGE THERAPY (0)
Course presents a detailed exploration of ethics and professionalism as it related to massage therapy, focusing on the development and application of appropriate professional boundaries and the psychological dimensions of the client-therapist relationship. Licensure, national certification, professional organizations, malpractice insurance, sexuality, cultural diversity, and the other concepts related to ethical practice are discussed.
Lec Hrs=15 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0150 ANATOMY AND PHYSIOLOGY OF BODY SYSTEMS (1)
The structure and function of human organ systems as they service of massage therapy are presented. Basic pathophysiology of the major body systems and organs as they apply to massage therapy are discussed in relationship to appropriate care by the massage therapist. Systemic contraindications, local contraindications and cautions that influence massage are presented.
Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0156 ANATOMY AND PHYSIOLOGY FOR MASSAGE THERAPY II (1)
Course provides an opportunity for students to develop an applied understanding of neuromusculoskeletal anatomy. Postural analysis is presented. Students study the major muscles of the body, their origins, insertions, tendons of attachment, and actions; as well as associated bones, bony landmarks and stabilizing ligaments for each joint. Planes of movement and lever classification are discussed.

Prerequisite: MSS0150
Corequisite: MSS0156L
Lec Hrs=45 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0156L ANATOMY AND PHYSIOLOGY MASSAGE THERAPY (2)
Course provides integration of neuromusculoskeletal anatomy into therapeutic application of massage. Massage techniques are presented sequentially with review of positioning, appropriate strokes, ethical situations, appropriate draping, etc. Throughout the course, charting and interviewing skills are taught and practiced.
Lec Hrs=0 Lab Hrs=60 Oth Hrs=0 Fees=25.00

MSS0250 INTRODUCTION TO MASSAGE THERAPY (0)
Course presents an introduction to the massage therapy profession. Effective and appropriate communication techniques for management of the client-therapist relationship; communication skills necessary for working with colleagues in the health care community; and responsibility to the professional community and one’s own community, through civic participation and membership in a professional association are discussed. The theory and history of massage therapy are explored.
Pre or Corequisite: MSS0001 MSS0250L
Lec Hrs=15 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0250L INTRODUCTION TO MASSAGE THERAPY LAB (5)
Course explores the effects, precautions and variations associated with basic massage strokes and issues associated with touch and trust. Students learn how to perform a full body massage that includes the five basic Swedish massage strokes and variations plus compression and fascia release. Proper draping, lubrication, bolster use and turning procedures during the massage are also taught as well as appropriate use of pressure, rhythm and movement to enhance the massage’s effects. The ability to locate areas of tension or discomfort in clients is developed. Efficient body mechanics, hygiene and self-care while performing massage are practiced. Introductory record keeping as well as centering and breathing techniques are presented.
Pre or Corequisite: MSS0001 MSS0250
Lec Hrs=0 Lab Hrs=170 Oth Hrs=0 Fees=76.68

MSS0281 ALLIED MODALITIES (0)
Basic principles of allied modalities such as Polarity Therapy, Asian massage, trigger point therapy, deep tissue massage, reflexology, myofacial massage, muscle energy technique and others are explored as well as demonstrated. Specific techniques are related to the activities or needs of unique populations as appropriate, including older adults, children, persons with disabilities, and athletes. Introduction to the basic elements of other natural health care disciplines is presented. Prerequisite: MSS0250 MSS0250L
Pre or Corequisite: MSS0281L
Lec Hrs=15 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0281L ALLIED MODALITIES – LAB (4)
Students learn how to help promote relaxation and relieve muscle tension via palpation as well as by determining joint range of motion, and then applying massage, exercise and
stretching to support normal motion, muscle tone and relaxation. General techniques for full body and seated massage are practiced. Emphasis continues on the development of correct body mechanics, injury prevention, table management, draping methods, and charting. Hands-on skills in several modalities such as reflexology, manual lymph drainage and neuromuscular therapy are developed. Prerequisite: MSS0250 MSS0250L.

Pre or Corequisite: MSS0281
Lec Hrs=0 Lab Hrs=120 Oth Hrs=0 Fees=0.00

MSS0301 HYDROTHERAPY MODALITIES (0)
The therapeutic use of superficial heat and cryotherapy is discussed with an emphasis on developing an ability to make professional judgments about the application of the appropriate modality for each client situation. The history of hydrotherapy and principles of hydrotherapeutic applications and equipment, indications, contraindications are discussed. Basic principles of ultrasound, intercurrent current, TENS and electrical stimulation are presented. Prerequisite: MSS0250, MSS0250L.

Pre or Corequisite: MSS0301L
Lec Hrs=15 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MSS0301L HYDROTHERAPY MODALITIES LAB (1)
Practical experience in the use of ice, heat and hydrotherapies is provided. Application of physical agents modalities are practiced with emphasis on proper technique, safety, indications and contraindications. Prerequisite: MSS0250 MSS0250L.

Pre or Corequisite: MSS0301
Lec Hrs=0 Lab Hrs=45 Oth Hrs=0 Fees=46.43

MSS0803L MASSAGE THERAPY CLINICAL PRACTICUM (3)
Course encourages the synthesis and integration of principles and techniques learned across the curriculum. Students provide comprehensive massage therapy services in the Massage Therapy lab under direct supervision, including specific upper and lower body techniques. Introduces the experience of working in a massage clinic including learning principles of relating to clients, keeping records, determining fees, billing insurance, marketing and building a massage practice, maintaining hygiene standards and other activities. Students participate in case conferences and/or other professional discussions. In addition to laboratory sessions, students are required to engage in practice message sessions outside of scheduled class hours, and must complete a minimum community service requirement.

Lec Hrs=0 Lab Hrs=110 Oth Hrs=0 Fees=76.68

MTB103 BUSINESS MATHEMATICS (3)
This course emphasizes the application of mathematics to selected business topics and problems. In addition, it includes material in linear equations and descriptive statistics. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTB130 APPLIED MATHEMATICS (3)
This course is designed for Associate of Science degree seeking students. The following topics are included: the metric system and measurement; linear and quadratic functions; ratios and proportions; exponents and logarithms; and descriptive statistics. Problem solving and applications requiring a calculator will be presented throughout the course. Credit for this course cannot be used to meet the general education requirements for the Associate of Arts degree but can be used as AA Elective credit.

Prerequisite: MAT0028
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=5.00

MTB1325 ENGINEERING TECHNOLOGY MATH I (4)
This is the first course in a two term sequence for Electronics and Computer engineering technology students. Topics include Euclidean geometry, algebra, exponents and radicals, graphing, trigonometry, vectors, complex numbers, and straight line concepts. Calculators will be used to solve problems after the basic principles have been mastered.

Prerequisite: MAT0028
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTB1326 ENGINEERING TECHNOLOGY MATH II (4)
This is the second course of a two term sequence designed for Computer and Electronics engineering technology students. Topics include systems of linear equations, factoring and fractions, roots and radicals, quadratic equations, complex numbers, exponentials and logarithms, trigonometry, analytical geometry and linear inequalities. Calculators will be used to solve problems after the basic principles have been mastered.

Prerequisite: MTB1325
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTB1370 MATH TOPICS FOR HEALTH RELATED PROFESSIONS (1)
This course provides an intensive review of mathematics operations involving fractions, decimals, percents, ratios, and proportions. Units and measures in apothecaries, metric, and household systems are also discussed with a major emphasis upon application for the calculation of both oral and parenteral drug dosages.

Pre or Corequisite: NUR1020
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=2.00

MTE1004C INTRODUCTION TO MARINE TECHNOLOGY (3)
Course provides the student with the basic skills needed in repairing the marine engine. Hands-on training includes safety rules and regulations; use of tools; identification of fasteners, gaskets, and seals; use of parts and electrical symbols or wiring diagrams.

Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE1018C RIGGING AND MAKE READY (3)
Preparation and deliverable of sales merchandise, mounting of various accessories, rigging cables, wiring and control boxes. Minor maintenance and lubrication of systems.

Prerequisite: MTE1004C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE1040C MARINE DIESEL ENGINES I (3)
Course provides theory and hands-on application of the marine diesel engine and related systems. Instruction includes disassembly, reassembly, inspection, cleaning and troubleshooting engine parts and systems.
Prerequisite: MTE1004C MTE1400C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE167C MARINE FUEL SYSTEMS, DIESEL & GAS
Course provides theory, operation, and service of gasoline and diesel fuel systems as well as conventional systems and characteristics of fuels and their oil mixture; safety; marine carburetors, tank construction and installation. Troubleshooting and test equipment using dynometer.
Prerequisite: MTE1004C MTE1400C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE1312C ADVANCED MARINE COMPOSITES, PAINTING & REFINISH
Principles of advanced composite marine construction and repair. Painting and refinishing surface fundamentals.
Prerequisite: MTE1004C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=121.43

MTE1400C MARINE ELECTRICITY
Basic electrical theory for both AC and DC circuits in marine systems. Application of electrical theory to the generating, starting and auxiliary circuits of the marine engine. Emphasis on theory of operation and repair of equipment in the field with special attention to marine problems in salt-water environment.
Prerequisite: MTE1004C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE1542C AIR CONDITIONING AND REFRIGERATION
Principles of air conditioning and refrigeration systems on marine vessels.
Prerequisite: MTE1004C MTE1400C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE1651C BASIC WELDING
Provides basic welding knowledge and skills necessary to make repairs on ferrous materials used in the marine industry. Emphasis on metallurgy and uses of metals. The course is designed for the student with no welding experience. May include line segments, angles, triangles, polygons, circles, parallel lines, and similarity. Credit for this course may not be used to meet general education requirements for the A.A. degree but can be used for the AA elective requirement.
Lec Hrs=38 Lab Hrs=58 Oth Hrs=0 Fees=94.00

MTE2041C DIESEL ENGINES II
Advanced theory of operation of diesel engines with an understanding of ABYC standards and recommended practices for systems.
Prerequisite: MTE1004C MTE1040C MTE1400C
Lec Hrs=16 Lab Hrs=64 Oth Hrs=0 Fees=66.43

MTE2234C INBOARD/OUTBOARD SAILDRIVE AND TRAN
Course provides instruction on large outboard lower units, stern drives and marine gear assemblies of various manufacturers. Complete disassembly and reassembly procedures on outboard lower units. The study of hydraulics in transmissions and theory of propellers.
Prerequisite: MAT1033
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTG2204 GEOMETRY FOR TEACHERS
This course is designed for middle and high school mathematics teachers. The course emphasizes Euclidean plane geometry with an introduction to the non-Euclidean geometries. The problems, proofs, and constructions involve line segments, angles, triangles, polygons, circles, parallel lines, and similarity. Credit for this course may not be used to meet general education requirements for the A.A. degree but can be used for the AA elective requirement.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTG2206 COLLEGE GEOMETRY
A college geometry course emphasizing Euclidean Geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve line segments, angles, triangles and polygons, parallel and perpendicular lines, slope of lines, circles, and similarity. Trigonometry is presented in terms of right angle relationships; logic is the basis for deductive reasoning in proofs of theorems; and lines and other geometric figures are graphed in the rectangular coordinate system. Unless a requirement or elective in an A.A. degree program, the transfer credit status of this course would be evaluated by the receiving institution.
Prerequisite: MAT1033
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MTG3212 MODERN GEOMETRY
A course for math and math education majors. Geometry is a major foundation of our mathematical understanding of the world, and this course will explore both its breadth and depth. This course rigorously examines the axioms and theorems of Euclidean geometry and the non-Euclidean geometries. The coordinate and translational geometries will be treated as well. This course is highly theoretical and proof-intensive. Thus some background will constructing direct proofs and proofs by contradiction is a necessary prerequisite to enrolling in this course.

Prerequisite: MAD2104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUE1440 STRING CLASS (1)
Development of elementary performing skills on the violin.
A basic study of all string instruments. Examines literature and teaching techniques for group instruction of students.
This course can be used for the AA degree.
Pre or Corequisite: MUT1111
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUE1450 WOODWIND CLASS (1)
Development of elementary performing skills on the clarinet.
A basic study of all woodwind instruments. Examines literature and teaching techniques for group instruction of students.
This course can be used for the AA degree. Pre or Corequisite: MUT1111
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUH2019 DEVELOPMENT OF AMERICAN POPULAR MUSIC (3)
Popular music in the United States, from 1820 to the present, including the Big Band Era, Country and Western, Jazz, Black Music, and the Rock scene (beginning in 1955).
Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUH2111 MUSIC HISTORY AND LITERATURE (3)
A survey course tracing the historical development of Western music from antiquity through the Classical Period. Emphasis is placed on major composers and their works. Recommended for second-year music students. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUH2112 MUSIC HISTORY AND LITERATURE (3)
A survey course tracing the history of music from the beginning of the 19th century to the present, showing the significance of music's development resulting from social, international and cultural influences. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUL2000 MUSIC APPRECIATION (3)
Course for non-music majors, designed to develop a basic music vocabulary, establish critical listening skills, and survey the evolution of Western music within a framework of world cultures. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUL2955 SEMINAR IN SPECIAL INTERNATIONAL STUDIES (3)
A combination of classroom preparation and foreign travel with an emphasis on in-depth study of major musical works. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUM1600 INTRODUCTION TO RECORDING PROCEDURES (3)
Fundamentals and techniques of modern multi-track recording. Areas of concentration are studio procedures, equipment operation, microphone selection and placement, signal processors, musical instrument isolation, and acoustical properties. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=50.00

MUM1601C ADVANCED RECORDING ENGINEERING (3)
Advanced application of recording and mixdown techniques incorporating the use of overdubs and bouncing tracks after laying down original tracks. Applications of editing techniques. This course can be used for the AA degree.
Prerequisite: MUM1600
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=100.00

MUM2700 INTRODUCTION TO MUSIC BUSINESS (3)
An introduction to the history, principles and practices of the music industry. A systematic survey of the career options in the music industry. Topics include recording, publishing, licensing, copyrights, promotions, arts management, music and instrument merchandising, contracts, music in mass communication, the internet and the music industry, live performance on a local and national basis, career options and career development with emphasis on commercial enterprise. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUN1120 BAND (1)
Open to all students, faculty and members of the community who play a band instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1180 CONCERT BAND (1)
Open to all students, faculty and members of the community who play a band instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1210 SYMPHONY ORCHESTRA (1)
Open to all students, faculty and members of the community who play an orchestral instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1400 CHOREOGRAPHY (1)
Open to all students, faculty and members of the community who plan to choreograph a dance production. This course gives students the opportunity to choreograph their own production from the initial brainstorming session through the final processed performance. Students will be expected to work independently to create, choreograph, and perform their original works.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1450 WOODWIND CLASS (1)
Development of elementary performing skills on the clarinet.
A basic study of all woodwind instruments. Examines literature and teaching techniques for group instruction of students.
This course can be used for the AA degree. Pre or Corequisite: MUT1111
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1460 STRING CLASS (1)
Development of elementary performing skills on the violin.
A basic study of all string instruments. Examines literature and teaching techniques for group instruction of students.
This course can be used for the AA degree. Pre or Corequisite: MUT1111
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUNI120 BAND (1)
Open to all students, faculty and members of the community who play a band instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUNI180 CONCERT BAND (1)
Open to all students, faculty and members of the community who play a band instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUNI210 SYMPHONY ORCHESTRA (1)
Open to all students, faculty and members of the community who play an orchestral instrument. Chairs assigned by the conductor through audition. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUNI220 CHOREOGRAPHY (1)
Open to all students, faculty and members of the community who plan to choreograph a dance production. This course gives students the opportunity to choreograph their own production from the initial brainstorming session through the final processed performance. Students will be expected to work independently to create, choreograph, and perform their original works.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUNI225 INTRODUCTION TO RECORDING PROCEDURES (3)
Fundamentals and techniques of modern multi-track recording. Areas of concentration are studio procedures, equipment operation, microphone selection and placement, signal processors, musical instrument isolation, and acoustical properties. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=50.00

MUNI230 COMMERCIAL RECORDING ENGINEERING (3)
Advanced application of recording and mixdown techniques incorporating the use of overdubs and bouncing tracks after laying down original tracks. Applications of editing techniques. This course can be used for the AA degree.
Prerequisite: MUM1600
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=100.00
MUN1280 ORCHESTRA  (1)
Open by audition to all students, faculty, and members of the community who play an orchestral instrument. Chairs assigned by the conductor. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1310 COLLEGE SINGERS  (1)
Open to all college students by audition. Three hours rehearsal weekly. May be take four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1340 VOCAL ENSEMBLE  (1)
A select vocal ensemble performing a wide variety of literature, including Jazz and Pop. Open to all students by audition. May be taken four times for transfer credit.
Corequisite: MUN1310 or MUN1380
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1341 SEAHAWK SINGERS  (1)
A select vocal ensemble performing a variety of literature including jazz and pop. Open to all students by audition. May be taken four times for transfer credit.
Corequisite: MUN1310 or MUN1380
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1380 BROWARD CHORAL SOCIETY  (1)
Open to all student, faculty and members of the community who have experience in the art of singing. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1430 BRASS ENSEMBLE  (1)
A select instrumental ensemble that performs music written or arranged for Brass instruments. Enrollment is determined by the director through audition. May be taken four times for transfer credit.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1440 PERCUSSION ENSEMBLE  (1)
A select instrumental ensemble that performs music written or arranged for percussion instruments. Enrollment is determined by the director through audition. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1460 CHAMBER ENSEMBLE  (1)
Small group whose members are selected by the director through audition. Study and performance of repertoire appropriate to the specific chamber media. Three hours rehearsal weekly. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1480 CLASSICAL GUITAR ENSEMBLE  (1)
Open to all students, faculty and members of the community who play guitar. Enrollment is determined by the director through audition. Participants will study and perform music from all periods in preparation for public performance. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1481 JAZZ GUITAR ENSEMBLE  (1)
Open to all students, faculty and members of the community who play guitar. Enrollment is determined by the director through audition. Participants will study and perform music of various styles in preparation for public performance. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1710 JAZZ ENSEMBLE  (1)
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1711 JAZZ COMBO  (1)
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUN1712 COMBO LAB  (1)
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music and show presentation fields. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

MUN1780 JAZZ/POP ENSEMBLE  (1)
Enrollment is determined by the director through audition. Study and performance of music associated with the popular music, show presentation and dance band fields. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUO1501 OPERA WORKSHOP  (1)
Open to all college students by audition. The study and performance of Opera Literature. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUO1506C OPERA PRODUCTION  (1)
Open to all college students by audition. The study and performance of opera literature. May be taken four times for transfer credit. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUS2342 DIGITAL AUDIO MUSIC
PRODUCTION (3)
An introduction to the creation and performance of music using computers and MIDI technology. Prerequisite: basic keyboard skills and music reading ability. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUS2344 INTRODUCTION TO MIDI SYSTEMS AND SOUND DESIGN (3)
This course will offer the student a comprehensive study of the Musical Instrument Digital Interface (MIDI) and its many musical applications with an emphasis on sequencing and sound design. Concepts of music synthesis and sound design are presented through the use of a computer, keyboard, and appropriate software. Assignments are performed outside of class reinforcing weekly lecture topics. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUS2905 INDEPENDENT STUDY: MUSIC (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to music. Prerequisite: instructor approval. Students will shape the course to fit their needs by planning activities with a faculty advisor. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

MUS2930 MUSIC: SPECIAL TOPICS (3)
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the MUS2930 course title published in the course schedules for each term that the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT1001 FUNDAMENTALS OF MUSIC (3)
A study of basic music fundamentals for the non-music major or the beginning music major whose background in music has been minimal. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT1111 MUSIC THEORY I (3)
A course on music theory and related keyboard skills. Emphasis on diatonic materials. Pre or Corequisite: MUT1241. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT1112 MUSIC THEORY II (3)
A continuation of MUT1111. Prerequisite: MUT1111 Corequisite: MUT1242. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT1241 EAR TRAINING AND SIGHT SINGING I (1)
A course in the development of sight singing and ear training skills. Corequisite: MUT1111. This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT1242 EAR TRAINING AND SIGHT SINGING II (1)
A continuation of MUT1241. Prerequisite: MUT1241 Corequisite: MUT1112. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUT2116 MUSIC THEORY III (3)
Continuation of MUT1112. Concentration on chromatic materials, musical forms, and 20th century techniques. Prerequisite: MUT1112 Corequisite: MUT2246. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT2117 MUSIC THEORY IV (3)
Continuation of MUT2116. Prerequisite: MUT2116 Corequisite: MUT2247. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT2246 EAR TRAINING AND SIGHT SINGING III (1)
A continuation of MUT2142. Prerequisite: MUT1242 Corequisite: MUT2116 This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUT2247 EAR TRAINING AND SIGHT SINGING IV (1)
Continuation of MUT2246. Prerequisite: MUT2246 Corequisite: MUT2117 This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MUT2641 JAZZ THEORY AND IMPROVISATION I (3)
A study of the materials and structure of jazz music and the development of improvisational skills. Prerequisite: MUT1111. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MUT2642 JAZZ THEORY AND IMPROVISATION II (3)
A study of the materials and structure of jazz music and the development of improvisational skills. Prerequisite: MUT2641. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

MVB1011 PRE-PRINCIPAL TRUMPET (1)
College preparatory applied instruction in Trumpet for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB102 PRE-PRINCIPAL FRENCH HORN (1)**
College preparatory applied instruction in French horn for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB103 PRE-PRINCIPAL TROMBONE (1)**
College preparatory applied instruction in trombone for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB104 PRE-PRINCIPAL BARITONE HORN (1)**
College preparatory applied instruction in baritone horn for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB105 PRE-PRINCIPAL TUBA (1)**
College preparatory applied instruction in tuba for the music principal. One hour lesson per week and two hours practice daily. Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK2221
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB121 TRUMPET (1)**
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVB122 FRENCH HORN (1)**
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB123 TROMBONE (1)**
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB124 BARITONE HORN (1)**
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB125 TUBA (1)**
One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVB131 PRINCIPAL TRUMPET I (1)**
Applied instruction in trumpet for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB132 PRINCIPAL FRENCH HORN I (1)**
Applied instruction in French horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB133 PRINCIPAL TROMBONE I (1)**
Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB134 PRINCIPAL BARITONE HORN I (1)**
Applied instruction in baritone horn for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB135 PRINCIPAL TUBA I (1)**
Applied instruction in tuba for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB2222 FRENCH HORN** (1)
One half hour lesson weekly and one hour practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVB2223 TROMBONE** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB2224 BARITONE HORN** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVB2225 TUBA** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVB2321 PRINCIPAL TRUMPET II** (1)
Applied instruction in trumpet for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB2322 PRINCIPAL FRENCH HORN II** (1)
Applied instruction in French horn for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB2323 PRINCIPAL TROMBONE II** (1)
Applied instruction in trombone for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB2324 PRINCIPAL BARITONE HORN II** (1)
Applied instruction in baritone horn for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVB2325 PRINCIPAL TUBA II** (1)
Applied instruction in tuba for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVJ1010 PRE-PRINCIPAL JAZZ PIANO** (1)
College preparatory applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVJ1011 PRE-PRINCIPAL JAZZ VOICE** (1)
College preparatory applied instruction in jazz voice for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVJ1013 PRE-PRINCIPAL JAZZ GUITAR** (1)
College preparatory applied instruction in jazz guitar for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVJ1014 PRE-PRINCIPAL ELECTRIC BASS** (1)
College preparatory applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVJ1019 PRE-PRINCIPAL JAZZ PERCUSSION** (1)
College preparatory applied instruction in jazz percussion for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per Week</th>
<th>Corequisites/Prerequisites</th>
<th>Fees</th>
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<tr>
<td>MVJ1210 JAZZ PIANO / SECONDARY</td>
<td>One half-hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
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<td>MVJ1310 PRINCIPAL JAZZ PIANO I</td>
<td>Applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
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<td>MVJ1311 PRINCIPAL JAZZ VOICE I</td>
<td>Applied instruction in jazz voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=0.00</td>
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<tr>
<td>MVJ1313 PRINCIPAL JAZZ GUITAR I</td>
<td>Applied instruction in jazz guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00</td>
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<tr>
<td>MVJ1314 PRINCIPAL ELECTRIC BASS I</td>
<td>Applied instruction in electric bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00</td>
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<tr>
<td>MVJ1319 PRINCIPAL JAZZ PERCUSSION I</td>
<td>Applied instruction in jazz percussion for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 or MVJ2221. Corequisite: MVK1211</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00</td>
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<td></td>
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<tr>
<td>MVJ2220 JAZZ PIANO</td>
<td>One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00</td>
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<tr>
<td>MVJ2223 JAZZ GUITAR</td>
<td>One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00</td>
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<tr>
<td>MVJ2224 ELECTRIC BASS</td>
<td>One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00</td>
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<tr>
<td>MVJ2229 JAZZ PERCUSSION</td>
<td>One half hour lesson weekly and one hour practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00</td>
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<tr>
<td>MVJ2320 PRINCIPAL JAZZ PIANO II</td>
<td>Applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00</td>
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<tr>
<td>MVJ2323 PRINCIPAL JAZZ GUITAR II</td>
<td>Applied instruction in jazz guitar for the music principal. One hour lesson weekly and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211</td>
<td>1</td>
<td>Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00</td>
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MVK2321 PRINCIPAL PIANO I (1)  
Applied instruction in piano for the music principal. One hour lesson per week and two hours of practice daily. 
Prerequisite: Audition. 
Corequisite: Any music course (MUX) other than Music Appreciation. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVK1111 PIANO CLASS (1)  
Basic piano skills for the beginning student. This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MVK1211 PIANO (1)  
One hour lesson per week and one hour of practice daily. 
Corequisite: Any music course (MUX) other than Music Appreciation. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVK1013 PRE-PRINCIPAL ORGAN (1)  
College preparatory applied instruction in organ for the music principal. One hour lesson per week and two hours of practice daily. 
Prerequisite: audition. 
Corequisite: MVK1211 or MVK2221. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVP1011 PRE-PRINCIPAL PIANO (1)  
College preparatory applied instruction in piano for the music principal. One hour lesson per week and two hours of practice daily. 
Prerequisite: audition. 
Corequisite: MVK1211 or MVK2221. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVK2221 ORGAN (1)  
One half hour lesson weekly and one hour of practice daily. 
Corequisite: Any music course (MUX) other than Music Appreciation. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVK2323 PRINCIPAL ORGAN II (1)  
Applied instruction in organ for the music principal. One hour lesson per week and two hours of practice daily. 
Prerequisite: Audition. 
Corequisite: Any music course (MUX) other than Music Appreciation. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVO1070 APPLIED MUSIC JAZZ COACHING (1)  
Applied music jazz coaching on the student's instrument. One hour lesson per week and two hours of practice daily. 
By permission of the instructor. 
Corequisite: Any music course (MUX) other than Music Appreciation. 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVP1011 PRE-PRINCIPAL PERCUSSION (1)  
College preparatory applied instruction in percussion for the music principal. One hour lesson per week and two hours of practice daily. 
Prerequisite: audition. 
Corequisite: Any (MUX) course other than Music Appreciation. 
Corequisite: MVK1211 or MVK2221.
**Course Descriptions**

Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVP1211 PERCUSSION** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVP1311 PRINCIPAL PERCUSSION I** (1)
Applied instruction in percussion for the music principal.
One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVP2221 PERCUSSION** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVP2321 PRINCIPAL PERCUSSION II** (1)
Applied instruction in percussion for the music principal.
One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1011 PRE-PRINCIPAL VIOLIN** (1)
College preparatory applied instruction in violin for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1012 PRE-PRINCIPAL VIOLA** (1)
College preparatory applied instruction in viola for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1013 PRE-PRINCIPAL CELLO** (1)
College preparatory applied instruction in cello for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1014 PRE-PRINCIPAL STRING BASS** (1)
College preparatory applied instruction in string bass for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1015 PRE-PRINCIPAL HARP** (1)
College preparatory applied instruction in harp for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1016 PRE-PRINCIPAL CLASSICAL GUITAR** (1)
College preparatory applied instruction in classical guitar for the music principal.
One hour lesson per week and two hours practice daily.
Prerequisite: audition. Corequisite: Any (MUX) course other than Music Appreciation.
Corequisite: MVK1211 or MVK2221.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS1116 GUITAR CLASS** (1)
Class instruction in beginning classical guitar techniques.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

**MVS1211 VIOLIN** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVS1212 VIOLA** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00
MVS1213 CELLO (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS1214 STRING BASS (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVS1215 HARP (1)
One half hour lesson weekly, and one hour of practice daily.
Course scheduled on demand.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS1216 CLASSICAL GUITAR (1)
One half hour lesson weekly, and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVS1311 PRINCIPAL VIOLIN I (1)
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVS1312 PRINCIPAL VIOLA I (1)
Applied instruction in viola for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVS1313 PRINCIPAL CELLO I (1)
Applied instruction in cello for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVS1314 PRINCIPAL STRING BASS I (1)
Applied instruction in string bass for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=50.00

MVS1315 HARP (1)
One hour lesson weekly, and two hours of practice daily. Class offered on demand.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree.
Corequisite: MVK1211
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=0.00

MVS1316 PRINCIPAL CLASSICAL GUITAR I (1)
Applied instruction in classical guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition
Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVS2126 GUITAR CLASS (1)
Class instruction in intermediate guitar techniques. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

MVS2221 VIOLIN (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS2222 VIOLA (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS2223 CELLO (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS2224 STRING BASS (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVS2225 HARP (1)
One half hour lesson weekly, and one hour practice daily. Course scheduled on demand.
Corequisite: Any music course (MUX) other than Music Appreciation.
Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

MVS2226 CLASSICAL GUITAR (1)
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. 
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVS2321 PRINCIPAL VIOLIN II**  
Applied instruction in violin for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS2322 PRINCIPAL VIOLA II**  
Applied instruction in viola for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS2323 PRINCIPAL CELLO II**  
Applied instruction in cello for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS2324 PRINCIPAL STRING BASS II**  
Applied instruction in string bass for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS2325 PRINCIPAL SOPHOMORE HARP**  
Applied instruction in harp for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVS2326 PRINCIPAL CLASSICAL GUITAR II**  
Applied instruction in classical guitar for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVV1011 PRE-PRINCIPAL VOICE**  
College preparatory applied instruction in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVV1111 VOICE CLASS**  
Applied instruction in voice production and building of solo repertoire. Term I, II and III. This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

**MVV1211 VOICE**  
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVV1311 PRINCIPAL VOICE I**  
Applied instruction in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVV2221 VOICE**  
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUX) other than Music Appreciation. This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVV2321 PRINCIPAL VOICE II**  
Applied instruction in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW1011 VOICE CLASS**  
College preparatory applied instruction in flute for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW1111 PRINCIPAL VOICE I**  
Applied instruction in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW2321 PRINCIPAL VOICE II**  
Applied instruction in voice for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVV1011 VOICE CLASS**  
College preparatory applied instruction in oboe for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW1011 PRINCIPAL CLARINET**  
College preparatory applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily. Prerequisite: Audition. Corequisite: Any (MUX) course other than Music Appreciation. Corequisite: MVK1211 or MVK221. Corequisite: MVK1211 
This course can be used for the AA degree. 
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00
College preparatory applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1014 PRE-PRINCIPAL BASSOON (1)
College preparatory applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1015 PRE-PRINCIPAL SAXOPHONE (1)
College preparatory applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: audition. Corequisite: Any (MUx) course other than Music Appreciation. Corequisite: MVK1211 or MVK2221. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1211 FLUTE (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW1212 OBOE (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW1213 CLARINET (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW1214 BASSOON (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW1215 SAXOPHONE (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW1311 PRINCIPAL FLUTE I (1)
Applied instruction in flute for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1312 PRINCIPAL OBOE I (1)
Applied instruction in oboe for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1313 PRINCIPAL CLARINET I (1)
Applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1314 PRINCIPAL BASSOON I (1)
Applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW1315 PRINCIPAL SAXOPHONE I (1)
Applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

MVW2221 FLUTE (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW2222 OBOE (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW2223 CLARINET (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUx) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

MVW2224 BASSOON (1)
Any music course (MUX) other than Music Appreciation. Corequisite: Any music course (MUX) other than Music Appreciation.

This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=50.00

**MVW2225 SAXOPHONE** (1)
One half hour lesson weekly and one hour of practice daily.
Corequisite: Any music course (MUX) other than Music Appreciation.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=8 Oth Hrs=0 Fees=0.00

**MVW2321 PRINCIPAL FLUTE II** (1)
Applied instruction in flute for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW2322 PRINCIPAL OBOE II** (1)
Applied instruction in oboe for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW2323 PRINCIPAL CLARINET II** (1)
Applied instruction in clarinet for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW2324 PRINCIPAL BASSOON II** (1)
Applied instruction in bassoon for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**MVW2325 PRINCIPAL SAXOPHONE II** (1)
Applied instruction in saxophone for the music principal. One hour lesson per week and two hours of practice daily.
Prerequisite: Audition. Corequisite: Any music course (MUX) other than Music Appreciation. Corequisite: MVK1211
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=100.00

**NMT1002 INTRODUCTION TO NUCLEAR MEDICINE TECHNOLOGY** (3)
This course is designed to introduce the student to the field of nuclear medicine. Upon completion of this course, the student will have knowledge upon vital signs, patient care, universal precautions, and phlebotomy. The student will also receive a brief overview on radiation safety and the most common procedures performed in nuclear medicine.
Pre or Corequisite: NMT1002L NMT1430
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NMT1002L INTRODUCTION TO NUCLEAR MEDICINE LAB** (1)
The student will be introduced to aspects of the healthcare field and the fundamentals of nuclear medicine by applying the skills learned in Introduction to Nuclear Medicine to fully prepare the student for the hospital and/or clinical site.
Pre or Corequisite: NMT1002 NMT1430
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=42.00

**NMT1430 RADIATION SAFETY AND RADIOPHYSICS** (3)
This course is designed to educate students on the biological effects of radiation and also informs the student on the local, state and federal regulations regarding radiation protection and safety for themselves, others and the environment. The students will learn how to follow appropriate protection procedures; dose limits, the long and short term effects of radiation, and how to handle and dispose of radioactive materials; and practice personnel monitoring of radiation exposure.
Pre or Corequisite: NMT1002
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NMT1630 NUCLEAR MEDICINE PHYSICS AND MATHEMATICS** (3)
This course educates the student on the fundamentals of nuclear physics including nuclear terminology and important photon interactions that interplay with common radioisotopes used in Nuclear Medicine. The student will also gain knowledge of the various calculations necessary for a successful nuclear medicine technologist to attain.
Prerequisite: NMT1002 NMT1430
Pre or Corequisite: NMT1714 NMT1804
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NMT1714 NUCLEAR MEDICINE CLINICAL PATHOLOGY** (2)
This course introduces the student to general pathological conditions with emphasis on those commonly seen in the field of nuclear medicine. Basic anatomy is reviewed in correlation to pathophysiology of disease. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Topics will include: Pathogenesis, disease classification systems, and the study of specific disease of the respiratory, skeletal, gastrointestinal, hepatobiliary, urinary, cardiovascular & hematopoietic, nervous, endocrine and reproductive systems with nuclear medicine imaging considerations.
Prerequisite: NMT1002 NMT1430
Corequisite: NMT1630 NMT1804
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NMT1804 NUCLEAR MEDICINE CLINICAL EDUCATION** (2)
This course introduces the student to general pathological conditions with emphasis on those commonly seen in the...
field of nuclear medicine. Basic anatomy is reviewed in correlation to pathophysiology of disease. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of and reproductive systems with nuclear medicine imaging considerations.

Prerequisite: NMT1002 NMT1002L NMT1430
Corequisite: NMT1630 NMT1714
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=28.00

NMT1814 NUCLEAR MEDICINE CLINICAL EDUCATION I (2)
Second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. In addition to topics covered in Clinical Education I, the student is expected to perform routine quality control and some imaging procedures. Students must successfully complete a required number of competencies as stated in the clinical handbook for the respective semester.
Prerequisite: NMT1630 NMT1714 NMT1804
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=79.68

NMT1824 NUCLEAR MEDICINE CLINICAL EDUCATION II (2)
Second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. In addition to topics covered in NMT1814, the student is expected to perform routine quality control and quality assurance procedures. Students must complete patient care competencies as determined by the program.
Prerequisite: NMT1312 NMT1814
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=28.00

NMT2061 NUCLEAR MEDICINE SEMINAR (3)
This course challenges the student with comprehensive testing, discussions and refinement of their accumulated knowledge of all aspects of Nuclear Medicine technology in preparation for the National Board Examinations.
Prerequisite: NMT2102 NMT2534 NMT2723 NMT2723L NMT2960
Pre or Corequisite: NMT2844
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2102 NUCLEAR MEDICINE ADMINISTRATION (2)
Student will be introduced to the administrative duties required of a Nuclear Medicine Technologist. Some areas that will be covered include patient scheduling; radioisotope ordering; recordkeeping and reporting; scheduling and testing; communication; patient and clinician satisfaction.
Prerequisite: NMT2130 NMT2485 NMT2705L
Pre or Corequisite: NMT2573 NMT2706L NMT2844
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2130 NUCLEAR MEDICINE RADIOPHARMACY (3)
Student will understand how to maintain radiopharmaceutical laboratory records and materials; obtain a generator eluate; prepare radio-pharmaceuticals and perform quality control tests; dispose of radioactive waste appropriately; demonstrate an understanding of ordering pharmaceuticals in appropriate dosage and effective time frame. Prerequisite: Program Admission.
Pre or Corequisite: NMT2485 NMT2705L NMT2834

NMT2485 NUCLEAR MEDICINE METHODOLOGY (3)
Study of biological effects associated with exposure to ionizing radiation and an introduction to the fundamentals of physics to include radiation sources, radiation/matter interaction modes, cellular, tissue and the total body biological response patterns. Prerequisite: Program Admission.
Pre or Corequisite: NMT2130 NMT2705L NMT2834
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2534 NUCLEAR MEDICINE INSTRUMENTATION (3)
Integrates and correlates the principles of electrical and nuclear physics associated with operation and calibration of radiation detection devices employed in nuclear medicine.
Pre or Corequisite: NMT2130 NMT2485 NMT2705L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2573 NUCLEAR MEDICINE QUALITY CONTROL/QUALITY ASSURANCE (3)
Student will perform quality control testing of imaging systems; calibrate and operate scintillation counters; calibrate and operate gas-filled detectors; perform quality assurance testing of routine imaging and procedures.
Prerequisite: NMT2130, NMT2485, NMT2705L
Pre or Corequisite: NMT2102 NMT2706L, NMT2844
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2705L NUCLEAR MEDICINE LABORATORY I (1)
Practical and hands-on approach to Nuclear Medicine Methodology and Nuclear Medicine Instrumentation. Student will utilize the instrumentation involved in delivering nuclear medicine to the patient. Prerequisite: Program Admission.
Pre or Corequisite: NMT2130 NMT2485 NMT2834
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=6.00

NMT2706L NUCLEAR MEDICINE LABORATORY II (1)
Practical hands-on approach to Quality Assurance. Student will utilize the instrumentation involved in delivering nuclear medicine services to the patient.
Prerequisite: NMT2130 NMT2485 NMT2705L
Pre or Corequisite: NMT2102 NMT2573 NMT2844
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=6.00

NMT2713 NUCLEAR MEDICINE METHODOLOGY I (2)
This is the first of a series of 2 courses which thoroughly educates the student upon nuclear medicine imaging procedures to allow the student proper execution of these procedures during clinical rotation. The student will also demonstrate knowledge of respective PET imaging procedures frequently performed.
Pre or Corequisite: NMT1824 NMT2130 NMT2713L NMT2779
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2713L NUCLEAR MEDICINE METHODOLOGY I LAB (1)
This is the first of a series of 2 laboratories which allows the student to apply their knowledge of the material they learn in Methodology I and enhance the student's familiarity within the clinical setting.

Prerequisite: NMT2130 NMT2713
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=34.00

NMT2723 NUCLEAR MEDICINE METHODOLOGY II
This course enhances the student's knowledge attained from Methodology I by learning the remaining nuclear medicine procedures in order to be able to properly execute all procedures successfully. The student will also demonstrate knowledge of any remaining PET imaging procedures not discussed in Methodology I.

Prerequisite: NMT2130 NMT2713
Pre or Corequisite: NMT2534 NMT2723L NMT2834
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2723L NUCLEAR MEDICINE METHODOLOGY II LAB
This is the second of a series of 2 laboratories which allows the student to apply their knowledge of the material they learn in Methodology II and enhance the student's familiarity within the clinical setting.

Prerequisite: NMT2130, NMT2713L
Pre or Corequisite: NMT2723, NMT2834, NMT2960
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=34.00

NMT2779 INTRODUCTION TO MULTIPLE MODALITIES
This course educates the student upon proper recognition and interpretation of cross sectional anatomy. The student will also compare and analyze images from complementary modalities. It is crucial for the nuclear medicine technologist to understand three dimensional imaging in order to enhance patient care and be an asset to the facility.

Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NMT2834 NUCLEAR MEDICINE CLINICAL EDUCATION III
Third in a five-course sequence of supervised clinical instruction in nuclear medicine technology. There is a progression of clinical experiences from the elementary aspects to moderately refined procedures. Students are expected to gain proficiency according to defined objectives. Students must complete patient care competencies as determined by the program.

Pre or Corequisite: NMT2130 NMT2485 NMT2705L
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=49.43

NMT2844 NUCLEAR MEDICINE CLINICAL EDUCATION IV
Fourth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Students continue with performance and learning objectives covered in NMT2834 with additional hands-on experience in computer-enhanced imaging studies and interpretation. Students must complete advanced clinical competencies as determined by the program.

Prerequisite: NMT2130 NMT2485 NMT2705L
Pre or Corequisite: NMT2102 NMT2573 NMT2706L
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=80.68

NMT2854 NUCLEAR MEDICINE CLINICAL EDUCATION V
Fifth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. This final clinical education experience focuses on all of the clinical objectives in prior clinicals with students expected to perform patient examinations and unassisted routine procedures. Students will perform all didactic competencies and are expected to perform all procedures with minimal supervision.

Prerequisite: NMT2102 NMT2573 NMT2706L
Pre or Corequisite: NMT2061
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=80.68

NMT2863 NUCLEAR MEDICINE CLINICAL EDUCATION
Prepares students to make dose calculations, prepare radiopharmaceuticals, and perform in-vivo diagnostic procedures, radiation safety, disposal of radioactive materials and quality control procedures.

Pre or Corequisite: NMT2534 NMT2723L NMT2834
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=30.00

NMT2960 NUCLEAR MEDICINE ADVANCE APPLICATIONS
This course allows the student to take a more in depth perception upon previous taught courses with emphasis upon clinical application and knowledge developed from prior clinical education classes.

Prerequisite: NMT2130 NMT2713L
Pre or Corequisite: NMT2534 NMT2834
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NSP2781 REFRESHER NURSE UPDATE
This course has been developed to review current theory in relation to nursing practice so that the inactive R.N. may be able to move with confidence into a staff nurse orientation and return to practice. The material presented will emphasize trends in nursing practice and nursing education today, changes in the fundamentals of nursing skills necessary for providing effective nursing care in a variety of situations. A reasonable comprehensive review of the up-to-date nursing management of the adult patient with a medical surgical problem will be presented. Prerequisite: Current Florida RN license, current BCLS-C certificate, professional liability insurance, physical examination and recency of work experience.

Pre or Corequisite: NSP2781L
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=12.00

NSP2781L REFRESHER NURSE UPDATE PRACTICUM
This course will provide various laboratory and clinical experiences for the R.N. in providing patient care, team leading, and exposure to nursing care in the specialty areas.

Pre or Corequisite: NSP2781
Lec Hrs=0 Lab Hrs=0 Oth Hrs=160 Fees=101.68

NTP0001 CLEP EXAM
General and subject examinations to verify knowledge and competency. 
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NUR1020 NURSING PROCESS I**  (3)
A theoretical course for the beginning nursing student. Nursing process provides the students with the fundamentals of nursing including such basic skill as health assessment, health teaching, and legal aspects of nursing practice, communication techniques, the nursing process, and the role of the nurse as a member of the health care team. This course also includes explanation of specific physiological and psychological human needs as hygiene, sleep and rest, sensory, grief and loss, and self-concept and the nurse's role in assisting a person meet these needs, while sensitive to cultural diversity, human dignity, and developmental progression. Prerequisite: BSC1086 BSC1086L CHM1032 ENC1101 
Pre or Corequisite: HSC1149 MTB1370 NUR1020L 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NUR1020L NURSING PROCESS I CLINICAL LAB**  (2)
A clinical course for the beginning nursing student. Initially skills are learned in simulation lab and then the student is introduced to direct patient care in an inpatient setting. The emphasis is on care of the adult experiencing medical/surgical situations. The focus is practical application and transference of the theoretical concepts covered in Nursing Process I. Prerequisite: HSC1149 MTB1370 NUR1020 
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=126.68

**NUR1210 NURSING PROCESS II**  (3)
The second in a series of theoretical courses for the beginning nursing student. This course builds on previously learned concepts and introduces more sophisticated nursing interventions related to medication administration, care of patient experiencing alterations in the basic needs of nutrition, elimination, comfort, fluid and electrolyte balance, oxygenation, mobility, aspesis, and care of the surgical patient. Prerequisite: MTB1370 NUR1020 NUR1020L 
Pre or Corequisite: HSC1149 NUR1210L 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NUR1210L NURSING PROCESS II CLINICAL LAB**  (2)
The second in a series of clinical courses building on previously learned concepts while incorporating more sophisticated nursing interventions related to medication administration, care of patients experiencing alterations in the basic needs of nutrition, elimination, comfort, fluid and electrolyte balance, oxygenation, mobility, aspesis, and care of the surgical patient. Course activities focus on nursing care of the adult patient experiencing medical/surgical situations. Prerequisite: MTB1370 NUR1020 NUR1020L 
Pre or Corequisite: HSC1149 NUR1210 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=112 Fees=126.68

**NUR1220 HEALTH ALTERATIONS I**  (3)
Health Alterations I is a course designed to provide the student with knowledge of alterations of ingestion, digestion, metabolism, and elimination throughout the life cycle. The major focus is directed at meeting the health care needs of the adult and pediatric patient through utilization of the nursing process. The student will be expected to integrate principles of anatomy, physiology, and pathophysiology of the digestive and genito urinary systems into the nursing process. Components of pharmacology and nutrition will be included in this course. Consideration will also be given to the psychosocial aspects of the wellness/illness continuum. Prerequisite: HSC1149 NUR1210 NUR1210L 
Pre or Corequisite: NUR1220L 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=112 Fees=153.68

**NUR1220L HEALTH ALTERATIONS I CLINICAL LAB**  (2)
Health Alterations I Clinical Lab is a course designed to provide the student with the opportunity to utilize the nursing process in the care of patients with alterations of ingestion, digestion, metabolism, and elimination throughout the life cycle. The student will be expected to correlate theoretical knowledge and scientific principles with clinical situations, observational experiences, written assignments and performance exams may be included in this course. Prerequisite: HSC1149, NUR1210, NUR1210L 
Pre or Corequisite: NUR1220L 
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=151.68

**NUR1304L TRANSITION PEDIATRIC NURSING CLINIC LAB**  (1)
This clinical course provides the student with an understanding of growth and development through the stages of childhood and the application of the nursing process through these stages. Prerequisite: NUR1220, NUR1220L 
Pre or Corequisite: NUR1310 
Lec Hrs=0 Lab Hrs=0 Oth Hrs=56 Fees=153.68

**NUR1310 PEDIATRIC NURSING**  (3)
This pediatric course is designed to provide an understanding of growth and development through the stages of childhood and the application of the nursing process to these stages. Prerequisite: NUR1220 NUR1220L 
Pre or Corequisite: NUR1310L 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**NUR1310L PEDIATRIC NURSING LAB**  (2)
This clinical course provides the student with an understanding of growth and development through the stages of childhood and the application of the nursing process to these stages. Prerequisite: NUR1220 NUR1220L 
Pre or Corequisite: NUR1310L 
Lec Hrs=48 Lab Hrs=0 Oth Hrs=112 Fees=151.68

**NUR1400L TR HLTHCARE OF WOMEN CLINICAL LAB**  (1)
This clinical course is for the LPN student and will enable students to apply the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal and postpartal periods. Consideration is given to the multiple factors which complicate the normal physiological or psychological process of the childbearing period.
Prerequisite: NUR1220, NUR1220L.
Pre or Corequisite: NUR1421
Lec Hrs=0 Lab Hrs=0 Oth Hrs=56 Fees=153.68

NUR1421 HEALTH CARE OF WOMEN (3)
Health care of women is a course designed to provide the student with the knowledge of the reproductive system and health care needs of women throughout the life cycle. The major focus is directed to the childbearing portion of the life cycle. The student is expected to utilize the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal and postpartal periods. Consideration is given to the multiple factors which complicate the normal physiological or psychological process of the childbearing period.
Prerequisite: NUR1220, NUR1220L.
Pre or Corequisite: NUR1421L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR1421L HEALTH CARE OF WOMEN CLINICAL LAB (2)
Health Care of Women is a clinical course designed to provide the student with the knowledge of the reproductive system and health care needs of women throughout the life cycle. The major focus is directed to the childbearing portion of the life cycle. The student is expected to utilize the nursing process in providing nursing care to the maternity patient, her family, and the fetus/newborn during antepartal, intrapartal and postpartal periods. Consideration is given to the multiple factors which complicate the normal physiological or psychological process of the childbearing period.
Prerequisite: NUR1220, NUR1220L.
Pre or Corequisite: NUR1421.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=151.68

NUR1500L TRANSITION PSYCHIATRIC NURSING CLINICAL LAB (1)
This clinical course provides the LPN student with a definition and understanding of the psychiatric patient. The nursing process is utilized to present pathological condition. Therapeutic modalities are included.
Prerequisite: NUR1220, NUR1220L.
Pre or Corequisite: NUR1500L.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=56 Fees=153.68

NUR1520 NURSING CARE OF THE PSYCHIATRIC PATIENT (3)
This course provides the student with a definition and understanding of psychiatric nursing. The nursing process is utilized to present pathological conditions. Therapeutic modalities are included.
Prerequisite: NUR1220 NUR1220L.
Pre or Corequisite: NUR1520L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR1520L NURSING CARE OF THE PSYCHIATRIC PATIENT LAB (2)
This clinical course provides the student with a definition and understanding of the psychiatric nursing. The nursing process is utilized to present pathological conditions. Therapeutic modalities are included.
Prerequisite: NUR1220 NUR1220L.
Pre or Corequisite: NUR1520L.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=151.68

NUR2000 TRANSITION NURSING I (2)
This theoretical course for the LPN covers the following concepts: nursing process, legal aspects of nursing, communication techniques, computer concepts, and the role of the ADN registered nurse.
Prerequisite: BSC1086, BSC1086L, CHM1032, ENC1101.
Pre or Corequisite: HSC1149, MTB1370, NUR2000L.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR2000L TRANSITION NURSING I CLINICAL LAB (2)
The student shall be responsible for providing care of a selected group of patients, being aware of legal and ethical issues pertinent to their care and effecting change as necessary. It will be essential for the student to examine his/her own values and methods of communication in attempting to problem-solve patient situations. Observational experiences, written assignments, and performance exams may be included in this course.
Prerequisite: BSC1086, BSC1086L, CHM1032, ENC1101.
Pre or Corequisite: HSC1149, MTB1370, NUR2000.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=153.83

NUR2221 HEALTH ALTERATIONS II (3)
In this course the student will be responsible for principles of alteration in mobility, skin integrity, and neurological functioning. Concepts of rehabilitation will be emphasized.
Prerequisite: NUR1310, NUR1310L, NUR1421, NUR1421L, NUR1520, NUR1520L.
Pre or Corequisite: NUR2221L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR2221L HEALTH ALTERATIONS II CLINICAL LAB (2)
In this course the student will be responsible for applying the nursing process to assigned patients with alterations in mobility, skin integrity and neurological functions. This experience will require both clinical and written assignments. Evaluation will be based on their application of the nursing process to assigned patients.
Prerequisite: NUR1310, NUR1310L, NUR1421, NUR1421L, NUR1520, NUR1520L.
Pre or Corequisite: NUR2221.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=151.68

NUR2222 HEALTH ALTERATIONS III (3)
This course is designed to provide the student with the knowledge necessary to implement the nursing process on patients with cardiopulmonary dysfunction throughout the life cycle. The focus is the pathophysiology, common medical, diagnostic and treatment modes, nursing assessments and interventions necessary to treat those patients. The students will be responsible for reviewing anatomy and physiology, pharmacology, pediatric and psychiatric principles as they apply to this course.
Prerequisite: NUR2221, NUR2221L.
Pre or Corequisite: NUR2222L.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR2222L HEALTH ALTERATIONS III
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| **CLINICAL LAB** | In this course the student will be responsible for applying the nursing process to assigned patients with alterations in cardiopulmonary functioning. This experience will require both clinical and written assignments. Evaluation will be based on the application of the nursing process to assigned patients.  
Pre requisite: NUR2221 NUR2221L  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=151.68 |
| **NUR2801 TRANSITION NURSING IV** | This theoretical course for the LPN provides clinical opportunities to develop leadership skills, team management, legal ethical situations, problem solving techniques, interviewing techniques and emergency nursing.  
Pre requisite: NUR2222 NUR2222L  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR2801L TRANSITION NURSING IV CLINICAL LAB** | This course for the LPN provides clinical opportunities to develop leadership skills, team management skills, and legal, ethical responsibilities.  
Pre requisite: NUR2222 NUR2222L  
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=153.83 |
| **NUR2811 TRENDS, PRACTICES, & ROLES CLINICAL LAB** | This course is designed to provide the knowledge necessary to move from the role of a student to that of a graduate nurse. The focus is directed toward the legal, ethical and professional responsibilities of the nurse in managerial and coordinating roles.  
Pre requisite: NUR2222 NUR2222L  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3069 ADVANCED HEALTH ASSESSMENT** | NUR 3069 theory component of the course addresses the totality of the client including the spiritual aspects of health, disease/disability, and the individual client’s perceptions of the health/illness spectrum. The Health Assessment course provides the knowledge, skills, interviewing and interactive techniques needed to obtain and communicate a systematic, culturally-appropriate, comprehensive health history and physical examination. It addresses patho-physiological processes, critical thinking and analysis, clinical reasoning and judgment in order to provide safe, ethical, quality care across life spans and populations.  
Pre or Corequisite: NUR3069L NUR3678 NUR3805  
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3069L ADVANCED HEALTH ASSESSMENT LAB** | The laboratory component of the course addresses the totality of the client including the spiritual aspects of health, disease/disability, and the individual client’s perceptions of the health/illness spectrum. The Health Assessment course provides the knowledge, skills, interviewing and interactive techniques needed to obtain and communicate a systematic, culturally-appropriate, comprehensive health history and physical examination. It addresses patho-physiological processes, critical thinking and analysis, clinical reasoning and judgment in order to provide safe, ethical, quality care across life spans and populations.  
Pre or Corequisite: NUR3069 NUR3678 NUR3805  
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=134.18 |
| **NUR3119 NURSING CONCEPTS AND THEORIES** | This course will explore the major constructs of theories and models that form the foundation of nursing. The course will also investigate the history and evolution of nursing leaders, the evolving issues, concepts and theories and their application to nursing practice. Ethical issues as they relate to advocacy, self-determination and autonomy for the client as well as for the profession of nursing are addressed to assist the student to achieve an individualized professional perspective of nursing. The students will engage in constructive dialogue as they begin to conceptualize nursing phenomena in an area of interest.  
Pre requisite: NUR3069C NUR3805  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3167 NURSE AS A SCHOLAR** | This theoretical course for the LPN covers the following concepts: leadership, team management, legal ethical situations, problem solving techniques, interviewing techniques and emergency nursing.  
Pre requisite: NUR2222 NUR2222L  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3167 TRANSITION NURSING IV** | This course is designed to provide the knowledge necessary to move from the role of a student to that of a graduate nurse. The focus is directed toward the legal, ethical and professional responsibilities of the nurse in managerial and coordinating roles.  
Pre requisite: NUR2222 NUR2222L  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3167 NURSE AS A SCHOLAR** | This course presents aspects of scholarship that supports the values of the nursing profession committed to both social relevance and scientific advancement. The Nurse as a Scholar course examines interrelationships and allows the nurse to utilize scholarly evidence to design and implement nursing care that is high-quality and cost effective. The course addresses issues important to the profession of nursing; encourages the nurse to question assumptions and to utilize clinical reasoning and judgment. The course also emphasizes skills of inquiry, analysis, information literacy, critical thinking and communication in a variety of modes.  
Pre requisite: NUR3069C NUR3805  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00 |
| **NUR3678 NURSING CARE OF VULNERABLE POPULATIONS** | This course focuses on health issues affecting at-risk populations and how nurses can advocate reducing disparities in health care systems and health care delivery. The course emphasizes the interrelationships of sociocultural and public health care systems. Barriers to the navigation and utilization of health care systems are explored as related to...
the economical, legal, political, and cultural aspects of health protection and health maintenance.
Prerequisite: STA2023
Pre or Corequisite: NUR3069C NUR3805
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR3805 NURSING, ROLES, DIMENSIONS, AND PERSPECTIVES (3)
This course facilitates the transition of the Registered Nurse with an Associate Degree in Nursing or diploma to the role of the BSN graduate. It encompasses the history, evaluation, ethical imperatives, trends and issues impacting the nursing profession in evolving and global health delivery environments. It explores the responsibilities and values of the nursing profession, communication theories and techniques, teaching learning concepts, critical thinking, and clinical reasoning and judgment.
Prerequisite: STA2023
Pre or Corequisite: NUR3069C, NUR3678
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4165 NURSING RESEARCH (3)
This course explores the research process and allows the student to apply research methods relevant to nursing and nursing practice. Emphasis is placed in the legal, ethical, socio-cultural, economic and political implications of research in nursing and health care. Evidence-based practice is emphasized in guiding nursing practice.
Prerequisite: NUR3069C, NUR3805
Pre or Corequisite: NUR3119, NUR3167
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4284 DYNAMICS AND CONTEMPORARY ISSUES IN AGING (3)
This course will provide an in-depth understanding of the concepts of normal aging, issues related to the client in communities, and health care issues confronted by the elderly. The impact of elderly on society, end of life issues, the application of current theories and evidence based practices on the elderly, available and potential health care systems and services are explored.
Prerequisite: NUR3069C, NUR3805, STA2023
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4636 COMMUNITY HEALTH NURSING (3)
The community based nurse cares for clients from many diverse cultures and must be prepared to give quality, effective, and culturally competent health care in a variety of settings and specialties. This course focuses on the role of the nurse in the community and emphasizes concepts and theories related to community health nursing. It further addresses cultural, social, and epidemiological factors related to health and illness, health promotion, and disease prevention across the life span of families of diverse populations.
Prerequisite: NUR3069C NUR3119 NUR3678 NUR3805 NUR4165 NUR4284
Pre or Corequisite: NUR4636L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4636L COMMUNITY HEALTH NURSING PRACTICUM (2)

This course presents clinical concepts of community health nursing focusing on the community as client and the multiple determinants of health in community health settings. The learner will participate in selected community based clinical activities and various community agencies as an interdisciplinary provider, designer and manager in the process to provide competent care, promote health protection, provide assistance with health maintenance and health restoration to a diverse population within the community.
Prerequisite: NUR3069C NUR3119 NUR3167 NUR3678 NUR3805 NUR4165 NUR4284
Pre or Corequisite: NUR4636
Lec Hrs=0 Lab Hrs=0 Oth Hrs=112 Fees=134.18

NUR4667 NURSING PERSPECTIVES AND GLOBAL TRENDS (3)
This course explores the knowledge and skills of baccalaureate nursing students' perspectives on global health trends. The incorporation of ethical considerations and cultural sensitivity into nursing practice has emerged as a result of increasingly diverse, multicultural, and globally orientated sociopolitical and economical health-care environment changes occurring in the 21st century healthcare system is addressed.
Prerequisite: NUR3069C NUR3805
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4827 PRINCIPLES OF NURSING LEADERSHIP AND MANAGEMENT (3)
This course provides an exploration of concepts, theories, and principles of leading and managing for the nurse manager to be effective in today's diverse and global health care environment. Grounded in evidence-based, best practices, the ethical, economic, legal, and political context of contemporary health systems are examined in terms of role development, interpersonal skills, net-working, facilitation of groups, provision of quality care and quality and scholarship as they pertain to nursing management, and health and safety goals are emphasized across cultures and practice settings.
Prerequisite: NUR3069C NUR3119 NUR3167 NUR3678 NUR3805 NUR4165 NUR4284
Pre or Corequisite: NUR4636 NUR4636L, NUR4667
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4945 NURSING CAPSTONE (2)
This theory course provides the opportunity to enhance the student's knowledge and expertise in selected areas of nursing practice, including but not limited to, specialty clinical nursing practice, nursing administration, nursing education, and community health. The student will collaborate with clients, nursing preceptors and faculty, and health care professionals to refine skills as a caring clinician, manager of care, and as a citizen and professional involved in population-based, contemporary health care, providing the interface between health care systems and the client.
Prerequisite: NUR4284 NUR4636 NUR4636L NUR4627 Corequisite: NUR4945L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

NUR4945L NURSING CAPSTONE PRACTICUM (2)
Following completion of all required nursing courses, the laboratory component of the Capstone Practicum requires the student to demonstrate competencies consistent with the program outcomes. The course provides the opportunity to enhance the student’s knowledge and expertise in selected areas of nursing practice, including but not limited to specialty clinical nursing practice, nursing administration, nursing education, community health. The student will collaborate with clients, nursing preceptors and faculty, and health care professionals to refine skills as a caring clinician, manager of care, and as a citizen and professional involved in population-based, contemporary health care, providing the interface between health care systems and the client. Prerequisite: NUR4284 NUR4636 NUR4636L NUR4827 Corequisite: NUR4945 Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=51.68

OCE1001 INTRODUCTORY OCEANOGRAPHY (3)
A survey of the four classic disciplines of the ocean sciences: geological oceanography, chemical oceanography, physical oceanography, and biological oceanography. Course will focus on the basic principles of the ocean sciences and stress the interdisciplinary nature of oceanography. This course can be used for the AA degree. Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OCE1001L OCEANOGRAPHY LABORATORY (1)
Laboratory methods for the Ocean Sciences. The topics covered will include problem solving in all aspects of ocean science to understand how the hydrosphere, lithosphere, biosphere and atmosphere of our planet functions and interacts and demonstrate a basic understanding of the unifying principles and processes that link geology, chemistry, physics, meteorology and biology to the study of the world ocean. Pre or Corequisite: OCE1001 This course can be used for the AA degree. Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=24.00

OPT1110 PHYSICAL AND GEOMETRIC OPTICS (3)
This course provides a review of light energy as it passes through air, plastic, glass and water with emphasis on how light is modified by prisms and curved lens surfaces. These principles relate to the effect these ophthalmic devices have in correcting the errors of human vision. Pre or Corequisite: OPT1110L OPT1210 OPT1330 Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT1110L PHYSICAL AND GEOMETRIC OPTICS LAB (1)
This course provides the opportunity for students to demonstrate, measure, and explore the behavior of light energy as it passes through prisms and curved lens surfaces. Students will demonstrate the principles of ophthalmic devices and how they correct the errors of human vision. Pre or Corequisite: OPT1110 OPT1210 OPT1330 Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=13.00

OPT1150 OPHTHALMIC LENSES (2)
Characteristics of single vision and multifocal lens reference points for proper lens selection to meet visual needs of the patients. Emphasis is on accurate positioning of the optical centers and selected multifocal addition design. ANSI and F.D.A. standards; prescription ordering and verification procedures; and absorbptive lenses are presented. Low vision devices and occupational specialty lenses will be discussed. Prequisite: OPT1110 OPT1110L OPT1210 Corequisite: OPT1150L OPT2090 Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT1150L OPHTHALMIC LENSES LAB (2)
This course provides the opportunity for students to gain hands on experience in the accurate positioning of the optical centers and selected multifocal addition designs. ANSI and F.D.A. standards, prescription ordering and verification procedures will be applied to patient jobs. Emphasis will be placed on the use of the manual and automated Lensometer. Fitting of low vision devices and occupational specialty lenses will be discussed. Prequisite: OPT1110 OPT1110L OPT1210 Pre or Corequisite: OPT1150 Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=13.00

OPT1210 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
This course provides a review of the structure and function of the systems of the human body, emphasizing the anatomy of the human eye. Visual recognition of common eye disorders and refractive disorders are discussed. Pre or Corequisite: OPT1110 OPT1110L OPT1330 Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT1330 ORIENTATION TO VISION CARE (2)
This course reviews the techniques needed in a clinical environment for the collection of patient case history, entrance visual acuity, basic visual skills of ocular motility and accommodation, color discrimination, depth perception and binocular fusion. Emphasis is placed on medical terminology as it relates to the visual system. Pre or Corequisite: OPT1110 OPT1110L OPT1210 Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT1450 OPHTHALMIC DISPENSING (2)
This course reviews the theory and terminology of ophthalmic frame materials, multifocal lenses, including progressive power and occupational bifocals and high index lenses. The process of analyzing the patient’s prescription and identifying the patient’s specific visual needs for the proper frame and lens selection are highlighted. Prequisite: OPT1150 OPT1150L OPT2090 OPT2879 Pre or Corequisite: OPT1450L OPT2500 OPT2500L OPT2800L Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT1450L OPHTHALMIC DISPENSING LAB (2)
This course provides the opportunity for students to practice ophthalmic dispensing. Measurement and adjusting ophthalmic frame materials, multifocal lens, occupational bifocals, high index lenses and low vision devices will be emphasized. The process of analyzing the patient’s prescription and identifying the patient’s specific visual needs for the proper frame and lens selection are highlighted. Prequisite: OPT1150 OPT1150L OPT1330 OPT2375 Pre or Corequisite: OPT1450 OPT2500 OPT2500L OPT2800L Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=13.00
OPT2060 OPHTHALMIC MANAGEMENT POLICY AND PROCEDURES (3)
This course provides a review of procedures and terminology in correspondence, legal and ethical principles, inter-and intra-professional relationships, and retail office management. The history of opticianry, optometry and ophthalmology is traced. Special emphasis is on a comprehensive review of the curriculum. The student will be required to present oral and written reports.
Prerequisite: OPT2800L OPT2875
Pre or Corequisite: OPT2876
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2090 ORIENTATION TO VISION CARE CLINIC (1)
This course provides an introduction to the Broward College Vision Care Clinic. Students will apply technical skills acquired in previous course work. Recording of clinical date, administrative procedures and techniques in patient handling under the close supervision of clinic instructors and 5th semester students.
Prerequisite: OPT1110, OPT1210, OPT1330
Lec Hrs=0 Lab Hrs=0 Oth Hrs=32 Fees=0.00

OPT2375 REFRACTOMETRY (2)
This course reviews the theory and terminology used in determining the powers of corrective lenses in relation to a patient's refractive error. Emphasis will be placed on the phoropter, retinoscope, and automated refraction instruments. Problems associated with the change in refractive powers will also be discussed.
Prerequisite: OPT1110 OPT1110L OPT1210
Pre or Corequisite: OPT1150 OPT1150L OPT1330 OPT2879
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2420 EYEWEAR FABRICATION I (1)
This course presents a review of the theory of ophthalmic surfacing and finishing procedures. Students acquire knowledge to arrange single vision and multifocal lenses, use sensoimeters and lens clocks, operate project-o-markers for lens layout, select or fabricate frame patterns, and utilize several systems for surfacing and edging lenses for ophthalmic frames.
Prerequisite: OPT2500 OPT2800L
Pre or Corequisite: OPT2420L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2420L EYEWEAR FABRICATION I LAB (2)
In this laboratory course students will gain practical experience in ophthalmic surfacing and finishing procedures. Students will fabricate single vision and multifocal lenses: use lensometers and lens clocks; operate project-o-markers for lens layout; select or fabricate frame patterns; and utilize several systems for surfacing and edging lenses for ophthalmic frames.
Prerequisite: OPT2500L OPT2879
Pre or Corequisite: OPT2420
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=17.00

OPT2421 EYEWEAR FABRICATION II (1)
Advanced techniques in measurement, fabrication and verification of single vision and multifocal lenses. Theory of ophthalmic surfacing and finishing procedures from written specifications ensuring that current ANSI and FDA standards are exceeded.
Prerequisite: OPT2420 OPT2420L
Pre or Corequisite: OPT2421L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2422L EYEWEAR FABRICATION II LAB (3)
Laboratory for OPT2421. Students will fabricate eyewear for the patients of the Vision Care Clinic using advanced techniques in measurement, fabrication and verification of single vision and multifocal lenses. Advanced techniques in the operation and maintenance of manual and computerized equipment.
Prerequisite: OPT2420 OPT2420L
Pre or Corequisite: OPT2421
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=17.00

OPT2450 CONTACT LENS THEORY (2)
This course provides a review of the theory and terminology of contact lenses including fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription, and "in-office" modification of contact lenses.
Prerequisite: OPT1150
Corequisite: OPT1450
Pre or Corequisite: OPT2500L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2461 OPHTHALMIC DISPENSING CLINIC II (3)
This is a continuation of OPT2493L. It involves advanced skills in the fitting and dispensing of ophthalmic lenses. Students will work under the close supervision of clinical staff in dispensing glasses to patients of the Vision Care Clinic. Emphasis will be placed on techniques used to dispense new technology in ophthalmic frame materials; multifocal lenses including progressive power and occupational bifocals; and high index lenses. The process of analyzing the patient's prescription and identifying the patient's specific visual needs for proper frame and lens selection is highlighted.
Prerequisite: OPT2375, OPT2500, OPT2800L
Pre or Corequisite: OPT2420, OPT2830L, OPT2875
Lec Hrs=0 Lab Hrs=80 Oth Hrs=42.25 Fees=0.00

OPT2462 OPHTHALMIC DISPENSING CLINIC I (2)
Development of skills in the fitting and dispensing of ophthalmic lenses. Students will work under the close supervision of clinical staff in dispensing glasses to patients of the Vision Care Clinic. Emphasis will be placed on techniques used to dispense new technology in ophthalmic frame materials; multifocal lenses including progressive power and occupational bifocals, high index lenses, and low vision devices. The history of opticianry, optometry and ophthalmology is traced. Special emphasis is on a comprehensive review of the curriculum. The student will be required to present oral and written reports.
Prerequisite: OPT1330
Corequisite: OPT2876
Pre or Corequisite: OPT2420, OPT2831, OPT2876
Lec Hrs=80 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2463 OPHTHALMIC DISPENSING CLINIC II (3)
This course provides an introduction to the Broward College Vision Care Clinic. Students will apply technical skills acquired in previous course work. Recording of clinical date, administrative procedures and techniques in patient handling under the close supervision of clinic instructors and 5th semester students.
Prerequisite: OPT2375, OPT2500, OPT2800L
Pre or Corequisite: OPT2420, OPT2830L, OPT2875
Lec Hrs=0 Lab Hrs=80 Oth Hrs=0 Fees=42.25

OPT2500L CONTACT LENS THEORY LAB (2)
In this laboratory course students will gain practical experience in ophthalmic surfacing and finishing procedures. Students will fabricate single vision and multifocal lenses: use lensometers and lens clocks: operate project-o-markers for lens layout; select or fabricate frame patterns: and utilize several systems for surfacing and edging lenses for ophthalmic frames.
Prerequisite: OPT2500L OPT2879
Pre or Corequisite: OPT2420
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=17.00

OPT2500 CONTACT LENS THEORY (2)
This course provides a review of the theory and terminology of contact lenses including fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription, and “in-office” modification of contact lenses.
Prerequisite: OPT1150
Corequisite: OPT1450
Pre or Corequisite: OPT2500L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OPT2800L CONTACT LENS THEORY LAB (2)
This course provides a review of the practical procedures used to apply technical skills of contact fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription and "in-office" modification of contact lenses.

**Prerequisite:** OPT1150L

**Corequisite:** OPT1450L

**Pre or Corequisite:** OPT2500

Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=15.00

**OPT2800L VISION CARE CLINIC I (2)**

This course provides a review of the practical procedures used to apply technical skills of contact fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription, and "in-office" modification of contact lenses.

**Prerequisite:** OPT1150 OPT1150L

**Corequisite:** OPT1450L OPT2500L

**Pre or Corequisite:** OPT2375 OPT2879

Lec Hrs=0 Lab Hrs=0 Oth Hrs=80 Fees=63.68

**OPT2830L CONTACT LENS CLINIC I (2)**

Assist eye care specialists in the fitting and follow-up care of rigid and soft contact lenses for patients referred from the Vision Care Clinic. Familiarization with over-refraction, instructions for lens handling, cleaning, care and storage, and basic contact lens pathology.

**Prerequisite:** OPT2500 OPT2500L OPT2800L

**Pre or Corequisite:** OPT2420 OPT2460 OPT2875

Lec Hrs=0 Lab Hrs=0 Oth Hrs=120 Fees=63.68

**OPT2831L CONTACT LENS CLINIC II (2)**

This course involves the use of contact lens instruments to confirm all parameters for replacement lenses. Particular attention is given to the patient who is having problems with contact lenses after long-term wear due to corneal changes and sensitivity to solutions. Advanced over-refraction and contact lens fitting procedures are practiced.

**Prerequisite:** OPT2420L, OPT2460L, OPT2830L

**Pre or Corequisite:** OPT2421, OPT2461, OPT2876

Lec Hrs=0 Lab Hrs=0 Oth Hrs=80 Fees=63.68

**OPT2875 OPHTHALMIC DISPENSING PRACTICUM I (2)**

In this laboratory course students will fabricate eyewear for the patients of the Vision Care Clinic using advanced techniques in measurement, fabrication and verification of single vision and multifocal lenses. Advanced techniques in the operation and maintenance of manual and computerized equipment.

**Prerequisite:** OPT2375 OPT2500 OPT2800L OPT2879

**Pre or Corequisite:** OPT2420 OPT2460L OPT2830L

Lec Hrs=0 Lab Hrs=0 Oth Hrs=120 Fees=62.68

**OPT2876 OPHTHALMIC DISPENSING PRACTICUM II (2)**

This is an externship in an approved retail ophthalmic dispensing establishment involving frame styling, ordering of appropriately designed lenses, adjustment, repair and dispensing of eyewear. The student will gain a working knowledge of administrative management procedures of the practice.

**Prerequisite:** OPT2420 OPT2830L OPT2875

**Pre or Corequisite:** OPT2060 OPT2421 OPT2461

Lec Hrs=0 Lab Hrs=0 Oth Hrs=120 Fees=61.68

**OPT2879 REFRACTOMETRY PRACTICUM (2)**

Practicum for OPT2375. Practical procedures used in determining the powers of corrective lenses in relation to a patient's refractive error. The student will learn to use the Phoropter, retinoscope, and automated refraction instruments in determining the patient's subjective and objective refraction. Problems associated with the change in refractive powers will be demonstrated.

**Prerequisite:** OPT1110 OPT1110L OPT1210 OPT1330

**Pre or Corequisite:** OPT1150 OPT1150L OPT1330 OPT2375

Lec Hrs=0 Lab Hrs=0 Oth Hrs=96 Fees=61.68

**ORH1000 HORTICULTURAL BIOLOGY (3)**

An introduction to the disciplines involved in the broad field of horticultural plant and animal taxonomy, morphology, anatomy and physiology. Course provides fundamental processes as they relate to plant growth, pests, production maintenance, and planting will be stressed.

**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**ORH1000L HORTICULTURAL BIOLOGY LAB (1)**

This two hour lab supports the lecture of ORH1000 and is required for all Landscape Technology students. Lab content is practical and oriented to existing situations encountered in the various horticultural professions and is primarily an overview of the plant and animal kingdoms with specific attention given to groups important to horticulture.

**Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00**

**ORH1523 NATIVE UPLAND PLANTS (2)**

This course includes the identification of approximately 100 plants and plant groups native or naturalized in the higher ground habitats of South Florida. The application of these plants as in-situ, mitigation, or landscape materials in the ecological and esthetic situations of this area will be an additional objective. Most instruction will be done in the field utilizing local passive and active-use parks. Completion of any landscape plant identification class, ORH1524, ORH1510, ORH2511, ORH2512 or ORH1101, is strongly recommended.

**Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**ORH1524 NATIVE WETLAND PLANTS (2)**

This course is a continuation of HOS1071, Native Upland Plants, and includes the identification of approximately 100 plants and plant groups native or naturalized in fresh and salt water wetlands of South Florida. The application of these plants as in-situ and mitigation species in ecological, landscape and esthetic situations will be done in the field.

**Prerequisite:** Instructor approval

**Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**OST100C KEYBOARDING & DOCUMENT PROCESSING I (3)**

This course offers an introduction to the keyboard with development of fundamental techniques, skill development, and simple correspondence and other business keyboarding and document processing. A minimum completion speed of 35 words per minute with a 3 error cutoff on 3 minute timed writing is required.

This course can be used for the AA degree.


**Course Descriptions**

**OST1103C BASIC KEYBOARDING**  (1)
This course offers an introduction to the keyboard with development of fundamental techniques. Minimum completion speed of 25 words per minute with a 3-error cutoff on 3-minute timed writings using touch technique is required. This course can be used for the AA degree.
Lec Hrs=4 Lab Hrs=12 Oth Hrs=0 Fees=7.00

**OST1100C KEYBOARDING & DOCUMENT PROCESSING I**  (3)
This keyboarding course includes skill development which includes speed building, and accuracy improvement; with an emphasis on refining and creating business correspondence, forms, reports, and tables. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 45 words per minute with 4-error cutoff on 5-minute timed writings are required.
Prerequisite: OST1100C
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=25.00

**OST1257C MEDICAL TERMINOLOGY FOR THE ADMINISTRATOR**  (3)
This course is designed to provide the student with an extensive study of medical terminology used in the various areas of the healthcare industry. Emphasis is placed on the building of medical terms from word parts.
Lec Hrs=12 Lab Hrs=36 Oth Hrs=0 Fees=20.00

**OST1330 BUSINESS ENGLISH**  (1)
This course provides a refresher course in punctuation and capitalization.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**OST1355 RECORDS MANAGEMENT**  (3)
Students will act as records managers in a simulated office utilizing computerized and paper management of records from planning, creation, filing, and retrieving to disposal according to ARMA principles. The student will learn and work with the basic legal requirements (such as Privacy Act and Freedom of Information Act) for the release and safekeeping of information and the laws and regulations regarding the management of such records.
Lec Hrs=24 Lab Hrs=24 Oth Hrs=0 Fees=31.00

**OST1795 TELECOMMUNICATIONS**  (1)
A hands-on course utilizing the Internet. Course topics include telecommunications terminology, the use of the World Wide Web, bulletin boards, attachments, address books, bookmarks, search engines, history lists, browser programs and customizing the browser. E-mail etiquette, legal issues, and organizing and archiving e-mail are also investigated.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=0.00

**OST181C DESKTOP PUBLISHING**  (3)
This course provides hands-on applications with a popular desktop publishing package. Through the application of desktop publishing techniques, students plan, design and create documents. Effective typeface and use of graphics and color in a publication's design and function are also covered.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

**OST1831 WINDOWS / GRAPHICAL ENVIRONMENT**  (1)
This course provides an introduction to the Windows Operating System. Students will learn the basic Windows commands including: My Computer, Explorer, Control Panel, Print Manager, WordPad, Paint, customizing the desktop, multi-tasking, and optimizing Windows.
Lec Hrs=0 Lab Hrs=16 Oth Hrs=0 Fees=0.00

**OST1841 INSTRUCTIONAL DESIGN FOR MULTIMEDIA**  (3)
This course will give the student an in-depth study of the instructional design process based on learning theories for multimedia. Students will conduct a needs analysis, a task analysis, design multimedia elements using storyboards and flow charts, apply interactive strategies to multimedia elements, and evaluate the success of a multimedia project, with emphasis on making content clearer and more meaningful with multimedia.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**OST2053 SUCCESSFUL JOB SEARCH**  (1)
This course presents a hands-on, interactive study of interview and employability skills and focuses on the keys to career success.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**OST2335 COMMUNICATIONS IN THE WORKFORCE**  (3)
This course is designed to help students communicate more effectively. Students will practice analyzing, planning, managing, and executing both written and oral presentations. Special focus includes grammar and all types of business documents to ensure appropriate content and structure. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=8.00

**OST2431 LEGAL OFFICE TECHNIQUES I**  (3)
This course provides an introduction to legal terminology, the typing of legal documents, and procedures for law firm employees. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**OST2432 LEGAL OFFICE TECHNIQUES II**  (3)
A further study of legal terminology with emphasis on preparation of legal papers.
Prerequisite: OST2431
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

**OST2455C MEDICAL BILLING AND CODING I**  (3)
This course provides advanced skills needed to work in a variety of medical billing and coding positions in the medical field. In-depth study of the various areas of medical billing/coding, workers’ compensation, reimbursement, and appeal are presented.
Prerequisite: OST1257C
Lec Hrs=12 Lab Hrs=36 Oth Hrs=0 Fees=0.00

**OST2456C MEDICAL BILLING AND CODING II**  (3)
This course provides advanced skills needed to work in a variety of medical billing and coding positions in the medical field. In-depth study of the various areas of medical billing/coding, workers’ compensation, reimbursement, and appeal are presented.
Prerequisite: OST1257C
Lec Hrs=12 Lab Hrs=36 Oth Hrs=0 Fees=0.00
CODING II (3)
This course provides extended knowledge and skills needed to work in a variety of medical billing and coding positions in the medical field. Topics include medical coding, medical claims, medical billing, accounts receivable, and medical management software.
Prerequisite: OST2455C OST2464C
Lec Hrs=24 Lab Hrs=24 Oth Hrs=0 Fees=0.00

OST2464C MEDICAL OFFICE COMPUTER APPLICATION (3)
This course prepares a medical office assistant to work in a health care practice utilizing computerized medical office management software. It provides training for input of new patient entry, posting procedures and payments, insurance billing, appointment scheduling, file maintenance with support files, and generating the daily, end-of-month, and end-of-period reports which are performed in a medical office.
This course can be used for the AA degree.
Lec Hrs=40 Lab Hrs=8 Oth Hrs=0 Fees=20.00

OST2501 OFFICE MANAGEMENT (3)
This course is a study of the skills needed by the office professional in the workforce. It includes technology, the global economy, increased diversity, teamwork, and the changing skills and nature of work demanded in the workforce. The efficient handling of office matters, such as scheduling appointments, customer/client relations, managing office operations, processing mail and correspondence, communication, e-mail etiquette and effectiveness, coordinating meetings/travel, planning and managing an event budget, and career planning and advancement are covered.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

OST2601 TRANSCRIBING MACHINES (3)
This course emphasizes skill development for accurate transcription of recorded dictation to office standard proficiency levels. Special materials related to each student's major subject areas of legal and medical are provided.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

OST2621 LEGAL OFFICE TRANSCRIPTION (3)
The student will study legal terminology, operate a transcribing machine efficiently, and proofread accurately. The student will apply the rules of spelling, grammar and punctuation to produce legal documents directly from transcription tapes.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

OST2764 INFORMATION/WORD PROCESSING APPLICATIONS (3)
This course will provide specialized training on advanced word processing concepts and techniques. The major emphasis of this course will be the formatting of characters, paragraphs and documents, managing text flow, graphics, advanced table features, reference tools, mail merge and macros, and customizing Word. The skills developed by students completing this course will help prepare them for the Microsoft Certified Application Specialist (MCAS) exam.
This course can be used for the AA degree.
Prerequisite: Keyboarding speed of 40 words a minute, or
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=10.00

OST2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a student's field of study through work experience. Students are graded on the basis of learning objectives and employer evaluations to promote decision-making abilities. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PAD2002 INTRODUCTION TO PUBLIC ADMINISTRATION (3)
This introductory course examines the governmental context of public administration including political values, bureaucratic politics, leadership and intergovernmental relations; organizational theory including decision making and organizational structure; and the administrative process including public personnel administration, budgeting, policy making and governmental regulation. The objective of this course is to provide the student with an overview of public administration with an emphasis on the political context.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PCB3063 GENETICS (3)
This course is an introductory study of the principles of inheritance and the molecular genetics of both prokaryotes and eukaryotes. The main objective of this course is to provide the pre-professional science educator a broad understanding of molecular, transmission, population and quantitative genetics from both an historical and modern perspective. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline required for teacher certification.
Prerequisite: BSC1010 BSC1010L BSC1011 BSC1011L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PCB4043 ECOLOGY (3)
This course is an introduction to ecological principles covering physiological, behavioral, population, community, ecosystem, landscape and global ecology. This course examines the integrated working of nature at all levels, from atoms and molecules to global cycles that sustain life on earth. The ecology of individuals is examined, in the realm of physiological ecology and in the adaptations of organisms to the abiotic factors of the environment.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PEL104C RECREATION ACTIVITIES (2)
An overview of outdoor and indoor games and activities for various age groups in a recreational setting.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=10.00

PEM1116 FUNCTIONAL WELLNESS (2)
Functional Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment, and may include
pilates, yoga, functional training, spinning and basic training. Evolving current topics such as nutrition, disease prevention, stress reduction, exercise prescription, and environmental responsibility are integrated to enable the student to understand the lifelong effects of healthy lifestyle choices. This course can be used for the AA degree.

Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEM1121 BEGINNING YOGA EXERCISES (1)
Students will learn proper exercise, relaxation and balance of both the body and mind. A holistic approach to health and stress management is emphasized. Co-educational.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEM1131 WEIGHT TRAINING (2)
A course primarily designed and organized for students of all ages to optimize their wellness in each of the following six interrelated dimensions: physical wellness; intellectual wellness; emotional wellness; spiritual wellness; interpersonal/social wellness; environmental/planetary wellness. Students will learn how to assess and apply this information to their lives in order to contribute to the welfare of the community and environment with a specific emphasis on resistance training methods and techniques.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEM1141 AEROBIC WELLNESS (2)
Aerobic Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Students will incorporate and apply concepts of aerobic exercise and healthy living in ways that will contribute to the welfare of the community and the environment.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEM1121 BEGINNING SWIMMING (1)
Co-educational. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEM1171 AQUATIC WELLNESS (2)
Aquatic Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social, emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Students will incorporate and apply concepts of aquatic exercise and healthy living in ways that will contribute to the welfare of the community and the environment.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=0.00

PEM1231 BEGINNING BASIC SAILING (1)
The basic course includes certain fundamentals and techniques of Seamanship and Sail handling as would be necessary for the safe, enjoyable use of a sailboat. Co-educational. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=5.00

PEN1241 WINDSURFING (1)
This basic course includes the fundamentals and techniques of handling a Windsurfing Board that are necessary for safe and enjoyable use in this activity. Co-educational.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=5.00

PEN2122 INTERMEDIATE SWIMMING (1)
Co-educational.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=2.00

PEN2136 SCUBA DIVING (1)
This course offers competencies for the PADI basic SCUBA course. Students will learn fundamental skills of snorkeling and scuba diving, as well as theories and knowledge for safe diving. This course does include open water dives required for National Certification. Student must furnish their own mask, snorkel, scuba fins and PADI Open Water Crew Pack (wet suit is optional). The course will meet at Tigertail Lake.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=125.00

PEO1011C TEAM SPORTS AND ACTIVITIES (2)
An overview of team sports and activities. Concepts appropriate for a variety of ages.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=5.00

PEO1013 SPORTS OFFICIATING (3)
Theory and practice of Officiating in selected sports. High School Federation Rules in Football, Basketball and Baseball or National Association for Girl's and Women's Rules in Volleyball, Basketball and Softball may be taught.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PEO1031C INDIVIDUAL SPORTS AND ACTIVITIES (2)
An overview of individual sports and activities concepts appropriate for a variety of ages.
This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=32 Oth Hrs=0 Fees=5.00

PET1303 FOUNDATIONS OF EXERCISE SCIENCE (3)
This course is designed to provide a foundational knowledge base which is common to all the different areas of fitness leadership. The didactic instruction lays the groundwork required by the fitness professionals in order to be analytical in their approach to safe and effective exercise programming for the public. Course content is heavy in the areas of anatomy and physiology as well as kinesiology, the science of human movement.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PET2622 CARE/PREVENTION/ATHLETIC
PHI2010 INTRODUCTION TO PHILOSOPHY (3)
This course is an introduction to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, and specific problems in philosophy. The relationship between philosophy, society, religion and culture will also be examined. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHI2400C PHOTOGRAPHY II (3)
This course is designed for the exploration of more advanced printing and shooting techniques. The students will be required to understand and apply techniques in medium format cameras, large focus cameras and studio lighting in order to achieve a cohesive body of work. (The use of 35mm is also included).
Prerequisite: PGY2401C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=30.00

PGY2800C FINE ARTS DIGITAL PHOTOGRAPHY (3)
This course is a Visual Arts class formulated to introduce and develop some of the necessary skills that will enable the students to understand the basic principles of digital cameras, film scanners and digital printing and how to use them in the context of the visual language. It is a course designed for Visual Arts students which will provide them with the necessary tools to understand the conceptual, visual, historical and cognitive arguments needed to create a cohesive and personal body of work. The students will learn Fine Arts Digital Photography through the use of digital cameras, film scanners and photo editing software. It will be hands-on learning experience. An important part of the class will be lectures, slide presentations, and discussion of historical and contemporary issues dealing with conceptual and visual arguments. Critiques will be the forum where students present their ideas and discuss/verbalize concepts dealing with conceptual and visual arguments. Critiques are mandatory and will be a group experience.
Prerequisite: PGY2401C
This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=64 Oth Hrs=0 Fees=45.00

PHI2905 INDEPENDENT STUDY: PHOTOGRAPHY (3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem. During this course students will be asked to produce a cohesive body of work, technically and conceptually resolved.
Prerequisite: PGY2401C PGY2404C
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=30.00

PHI2600 INTRODUCTION TO ETHICS (3)
This course is an introduction to the nature of ethics, ethical thinking, major intellectual movements in the history of ethics, and specific problems in ethics. A study of the basic concepts and principles of morals, values, and judgments that govern human actions, as well as various ethical theories, will be conducted. The relationship between ethics, society, religion, and culture will also be examined. Students must earn a minimum grade of \textquotedblleft}C\textquotedblright\ to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=30.00

PHI2930 SPECIAL TOPICS: PHILOSOPHY (3)
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the PHI2930 course title published in the course schedules for each term that the course is offered. Special Topics credit
hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1010 PHYSICAL PRINCIPLES FOR THE PT ASSISTANT

Course introduces the student to the basic physical principles that apply to commonly utilized therapeutic procedures in the field of physical therapy. Topics include but are not limited to body mechanics, ergonomics, the use of heat, cold, sound and electricity to facilitate healing.

Pre or Corequisite: PHT1103 PHT1200
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1020 THERAPEUTIC COMMUNICATION FOR THE PT ASSISTANT

An overview of effective communication skills and concepts regarding successful therapeutic interactions will be presented. Students will participate in several interactive sessions to become familiar with team building, verbal and non-verbal communication requirements, effective listening concepts, and conflict management to determine how to manage clinical situations as they arise. Cultural diversity is discussed. Students are responsible for developing an in-service presentation as a means of enhancing effectiveness of communication.

Prerequisite: PHT1103 PHT1200
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1103 ANATOMY FOR PHYSICAL THERAPIST ASSISTANT

Course introduces basic human anatomy with an emphasis on the structure and function of the skeletal and muscular systems. Actions, origins, insertions and innervations of muscles are discussed. Surface anatomy is presented with an introduction to basic palpation.

Prerequisite: BSC1086 BSC1086L
Corequisite: PHT1103L PHT1200
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1103L ANATOMY FOR PHYSICAL THERAPIST ASSISTANT

Laboratory sessions for Anatomy for PTA (PHT1103) are designed to provide the students with an opportunity to identify, with accuracy, a variety of bones, bony landmarks, muscles, ligaments and other soft tissue structures using graphics and various anatomical specimens/models. Basic palpation skills are developed.

Pre or Corequisite: PHT1103 PHT1200L
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

PHT1200 INTRODUCTION TO PHYSICAL THERAPY

Course introduces the student to the historical background, philosophy and goals of physical therapy as a profession. It incorporates discussion on legal and ethical issues, educational requirements, supervisory relationships and current developments related to physical therapy. Health care delivery systems, the medical record and issues of reimbursement are discussed. Presents the basic theory of preparing the patient and the treatment area, positioning and transferring techniques, gait training, and wheelchair prescription. Professional behaviors are introduced.

Pre or Corequisite: PHT1103 PHT1200L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1200L INTRODUCTION TO PHYSICAL THERAPY LAB

Laboratory sessions for Introduction to Physical Therapy (PHT1200) are designed to allow the students an opportunity to familiarize themselves with the basic fundamentals of patient care. Emphasis is on body mechanic analysis, positioning procedures, transfers, gait training, and basic patient preparation skills. Case studies of various medical conditions with emphasis in these areas are completed. Data collection relative to the course content as well as patient and caregiver education are emphasized. Skill checks as well as competency evaluations are completed. Professional behaviors, at the novice level, are assessed.

Pre or Corequisite: PHT1103L PHT1200
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=50.00

PHT1211 DISABILITIES AND THERAPEUTIC PROCEDURES

Course introduces the student to the theory and practical application of physical therapy modalities. The physiological effects of and the indications/contraindications of patient care interventions such as heat, cold, radiant therapy, electrotherapy, traction, intermittent compression and massage are presented. Principles of effective documentation and discharge planning are discussed. Problem-solving skills are detailed.

Prerequisite: PHT1103 PHT1200
Pre or Corequisite: PHT1211L PHT2224
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT1211L DISABILITIES AND THERAPEUTIC PROCEDURES LAB

Laboratory sessions for Disabilities & Therapeutic procedures (PHT1211) are designed to develop student skills in the actual performance of the patient care interventions presented. Skills in massage are developed. Practical application of each intervention is emphasized with patient simulations and case studies enhancing the ability to understand a plan of care for a patient. Professional behaviors, at the intermediate level, are assessed. Data collection relative to the course content as well as patient and caregiver education are emphasized. Skill checks as well as competency evaluations are completed. Students are expected to demonstrate competency in carrying out an appropriate therapeutic modality plan of care, including effective documentation.

Prerequisite: PHT1103L PHT1200L
Pre or Corequisite: PHT1211 PHT2224L
Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=50.00

PHT1300 SURVEY OF PATHOLOGICAL DEFICITS

Course introduces the student to general pathological conditions with emphasis on those commonly seen in the field of physical therapy. Basic system anatomy is reviewed with an emphasis on the pathophysiology of disease. Student presentations of various musculoskeletal conditions are
completed. Descriptions of how diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Implications of disease processes as well as contraindications, precautions and patient/caregiver education related to physical therapy are discussed through case study analysis. When relevant, specific physical therapy plans, such as chest PT, are discussed. The effects of aging upon disease and in general are considered. Prerequisite: BSC1086
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT310 SURVEY OF MUSCULOSKELETAL DEFICITS
(2)
Course introduces student to general pathological conditions with emphasis on those commonly seen in the field of physical therapy as they relate to the musculoskeletal systems. Descriptions of how musculoskeletal diseases are classified, diagnosed and treated, as well as the natural course/prognosis of these diseases are presented. Implications of disease processes as well as contraindications, precautions and patient/caregiver education related to physical therapy are discussed through case study analysis. The effects of aging upon disease and in general are considered. Prerequisite: BSC1086
Corequisite: PHTT300
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT350 BASIC PHARMACOLOGY FOR PT ASSISTANT
(1)
Course introduces concepts of basic pharmacology and presents pharmacological agents dispensed for conditions commonly seen in physical therapy. Drug responses and interactions as they relate to patient response are discussed. Prerequisite: PHTT300
Prereq or Coreq: PHTT1210
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT1801L CLINICAL PRACTICE I
(2)
Course involves student assignment to a local clinical facility. Includes scheduled class meetings to discuss clinical performance objectives, the self-appraisal process, and overall requirements for this novice-level practicum. Discussions also include professionalism, attitudes, patient rapport, sexual harassment, etc. A journal report of clinical experiences and an article review are required. Weekly online discussion forums facilitate critical thinking, peer review, and managing clinical situations at the novice-level. Students attend a personal conference with the academic coordinator of a clinical education to discuss progress and to identify areas of strength/weakness with appropriate target dates methods of amelioration, if needed. Students receive a satisfactory/fail grade. Prerequisite: BSC1086 PHTT1103
Lec Hrs=0 Lab Hrs=120 Oth Hrs=51.68

PHTT2120 APPLIED KINESIOLOGY
(3)
This course is designed as part of a continuum in the application of anatomy to facilitate student analysis of functional movements with specific focus on the relationship between joint structure and function. Principles of biomechanics as it relates to human movement will be reviewed. Normal and pathological gait patterns are presented as well as normal and pathological movement patterns of the head, spine, pelvis, UE, and LE. Special tests which help identify specific deficits will be discussed. Case studies of various functional impairments with an emphasis on functional task analysis as well as therapeutic interventional approaches which help restore function are presented. Orthotic interventions for the spine and extremities are discussed with an emphasis on correcting pathological biomechanics. Prerequisite: PHTT1020
Corequisite: PHTT2120L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT2120L APPLIED KINESIOLOGY LAB
(1)
Laboratory sessions for Applied Kinesiology (PHTT2120) are designed to provide opportunities for the students to practice the skills of analyzing normal and pathological gait, along with normal and abnormal movements of the head, spine, pelvis, UE and LE. Performance of special tests will be practiced. Palpation of surface anatomy and review of anatomical/bony landmarks occurs. Through completion of lab activities and case studies, the student correlates patient problems to various pathologies with their deficits in functional activities and gait. Therapeutic interventional approaches which include progression will be developed to address functional deficits. Orthotic interventions for the spine and extremities are applied with an emphasis on correcting pathological biomechanics. Prerequisite: PHTT224L
Pre or Coreq: PHTT2120
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

PHTT2162 SURVEY OF NEUROLOGICAL DEFICITS
(4)
Course introduces the etiology, pathophysiology and symptoms of common neurological diseases/conditions. Basic neuroanatomy is reviewed. Neurodiagnostic procedures are presented. Specific case study assignments of various neurological conditions are completed and discussed. Prerequisite: PHTT1020, PHTT2224
Corequisite: PHTT2810L
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT2203 MANUAL TECHNIQUES I
(3)
This course explores advanced techniques further developing the student’s use and integration of structural-based and energy-based systems. Topics will include trigger point therapy, myofascial release, and other advanced therapy applications. Prerequisite: A.S. degree in Physical Therapist Assisting.
Pre or Corequisite: PHTT2203L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHTT2203L CLINICAL PRACTICUM IN MANUAL TECHNIQUES LAB
(2)
This course will provide the student laboratory experience to practice Swedish and structurally based therapeutic massage in a supervised setting. Prerequisite: A.S. degree in Physical Therapist Assisting.
Pre or Corequisite: PHTT2203
Lec Hrs=0 Lab Hrs=60 Oth Hrs=0 Fees=0.00

PHTT2204 MANUAL TECHNIQUES II
(3)
This course explores advanced techniques further developing the student’s use and integration of structural-based and energy-based systems. Topics will include trigger point therapy, myofascial release, and other advanced therapy applications.

Prerequisite: PHT2203 PHT2203L
Pre or Corequisite: PHT2204L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT2224 DISABILITIES & THERAPEUTIC PROCEDURE
Course introduces concepts of therapeutic exercise with regards to its principles, and objectives. The theory of and application of specific exercise regimes are presented. Principles of ROM and stretching techniques are presented. A basic introduction to goniometry and manual muscle testing procedures is presented as it pertains to the development of therapeutic exercise interventions.

Prerequisite: PHT1103
Pre or Corequisite: PHT1211 PHT2224L
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT2224L DISABILITIES & THERAPEUTIC PROCEDURES II LAB
Laboratory sessions for Disabilities and Therapeutic Procedures II (PHT2224) are designed to provide the student with observation and actual application of therapeutic exercise in the laboratory setting. Case studies of various medical conditions with emphasis on therapeutic exercise interventions are completed. ROM and stretching techniques are practiced. Goniometry and manual muscle testing procedures are practiced as they relate to the provision of therapeutic exercise. Data collection relative to the course content as well as patient and caregiver education are emphasized. Professional behaviors, at the intermediate level, are assessed. Students attend a personal conference with the academic coordinator of clinical education to discuss progress and to identify areas of strength/weakness with appropriate target dates and methods of amelioration, if needed. Students receive a satisfactory/fail grade.

Prerequisite: PHT1103L PHT1200L
Pre or Corequisite: PHT1211L PHT2224
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=22.00

PHT2704 REHABILITATIVE PROCEDURES
Advanced course designed to develop skill in and understanding of the underlying principles of advanced physical therapy plans of care including motor learning principles. Techniques presented include advanced therapeutic exercise programs (stroke, spinal cord injured, etc.) proprioceptive neuromuscular facilitation (PNF), Bobath and Brunnstrom. Amputations and principles of prosthetics are detailed with fitting and check-out procedures reviewed.

Prerequisite: PHT2162
Pre or Corequisite: PHT2704L PHT2931
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHT2704L REHABILITATIVE PROCEDURES LAB
Laboratory sessions for Rehabilitative Procedures (PHT2704) are designed for the students to practice the utilization of developmental postures in patient interventions as well as PNF, facilitation/inhibition techniques and other forms of advanced therapeutic exercise approaches. Stump wrapping and therapeutic management of prosthetic patients are practiced. Case studies of various medical conditions with emphasis on advanced therapeutic exercise approaches as well as application of prosthetic principles are completed. Data collection relative to the course content, as well as patient and caregiver education are emphasized. Skill checks are completed. Students are expected to demonstrate competency in developing and carrying out appropriate interventions for a patient with neurological deficits. Professional behaviors, at the entry level, are assessed.

Prerequisite: PHT2162
Pre or Corequisite: PHT2704 PHT2931
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

PHT2810L CLINICAL PRACTICE I
Course involves student assignment to a local clinical facility. Includes scheduled class meetings to review clinical performance objectives, the self-appraisal process, and overall requirements for this intermediate level practicum. Class discussions are held to share and discuss experiences, patient care problems, learning styles, cooperative group participation, acceptance and implementation of constructive criticism, etc. A clinical journal and an in-service are required. Weekly online discussion forums facilitate critical thinking, peer review, and managing clinical situations at the intermediate level. Students attend a personal conference with the academic coordinator of clinical education to discuss progress and to identify areas of strength/weakness with appropriate target dates and methods of amelioration, if needed. Students receive a satisfactory/fail grade.

Prerequisite: PHT1801L
Pre or Corequisite: PHT2162
Lec Hrs=0 Lab Hrs=300 Oth Hrs=59.68

PHT2820L CLINICAL PRACTICE III
Course involves full time student assignment to a local clinical facility. Includes scheduled class meetings to discuss clinical performance objectives, the self-appraisal process, and overall requirements for this entry-level practicum. A clinical journal, a case study report and a research project are required. Class discussions are held to share and discuss experiences, patient care problems, readiness for the workplace, leadership responsibilities, professional growth, etc. Weekly online discussion forums facilitate critical thinking, peer review, and managing clinical situations at entry level. Students attend a personal conference with the academic coordinator of clinical education to discuss progress and to identify area of strength/weaknesses with appropriate target dates and methods of amelioration where necessary. Students receive a satisfactory/fail grade.
PHY2049L GENERAL PHYSICS WITH CALCULUS II LAB (1)  
A continuation of laboratory experiences chosen to coincide with the topics of electricity, magnetism, optics. One 2-hour period per week. Special fee charged. Placement by Testing Department or Prerequisite: PHY2048 PHY2048L.  
Pre or Corequisite: PHY2049  
This course can be used for the AA degree.  
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHY2053 GENERAL PHYSICS I (3)  
PHY2053 is the first course in a two semester sequence outlining mechanics, properties of matter, heat and sound. Algebra, trigonometry, geometry and vector methods will be used in the quantitative description of these topics.  
Prerequisite: MAC1114  
Pre or Corequisite: PHY2053L  
This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHY2054 GENERAL PHYSICS II (3)  
PHY2054 is the second course in a two semester sequence, PHY2053 and PHY2054. This sequence includes two laboratory classes: PHY2053L to be taken concurrently with PHY2053, and PHY2054L to be taken concurrently with PHY2054. The topics covered in PHY2054 include: electricity, magnetism and optics. Algebra, trigonometry, geometry and vector methods will be used in the quantitative description of these topics.  
Prerequisite: PHY2053 PHY2053L  
Pre or Corequisite: PHY2054  
This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PHY2054L GENERAL PHYSICS II LAB (1)  
Laboratory experiences designed to accompany the topics under study in PHY2054. One two-hour period per week. Special fee charged. Placement by Testing Department or Prerequisite: PHY2053 PHY2053L.  
Pre or Corequisite: PHY2054  
This course can be used for the AA degree.  
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=30.00

PHY2420 ELEMENTARY WAVE THEORY (3)  
A survey of the basic topics in the properties of physical and electromagnetic waves, including the study of intensity and motion waves. Placement by Testing Department or Prerequisite: MAT1033  
This course can be used for the AA degree.  
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
Includes topics that meet the Gordon Rule. Program Manager’s approval or Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PLA1435 CORPORATIONS (3)
This course provides an in-depth study of Corporate Law. Topics covered include types of corporations, articles of incorporation, bylaws, shareholders’ agreements, voting rights, management structure, directors’ powers, and voluntary/involuntary dissolutions. Non-profit corporations and professional associations are also discussed. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule.
Program Manager’s approval or
Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PLA1600 PROBATE PRACTICE (3)
This course prepares legal assistants to work effectively under the supervision of a lawyer in the probate and administration of an estate. The Florida Probate Code, trusts and taxes are studied. Preparation of pleadings is included. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. Program Manager’s approval or
Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PLA1610 PROCEDURES FOR REAL ESTATE TITLE CLOSINGS (3)
This course surveys the basic concepts of Real Property Law. The students study how to handle a real estate transaction from the drafting of a contract to its closing. The nature of property, the consequences of its possession, and the mechanics of the title examination are also studied. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule.
Program Manager’s approval or
Prerequisite: ENC1101, PLA1003, PLA1104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PLA1800 DOMESTIC RELATIONS (3)
This course surveys domestic relations, and includes topics such as marriage, dissolution of marriage, separation agreements, custody, legitimacy, adoption, name changes, support, court procedures, and property disposition. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule.
Program Manager’s approval or
Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PLA1841 IMMIGRATION LAW (3)
This course provides an in-depth study of Immigration Law. Topics covered include a historical overview of immigration law, types of immigration law practices, agencies involved with immigration laws, the drafting of all documents and forms associated with immigration law, the Immigration and Nationality Act and the administrative system covering the
This course provides a systematic introduction to the legal system of the United States of America through the study of theory, principles, policy outcomes, and responsible institutions involved in the formation and operation of American National Government. The course will be organized along four broad fronts: (1) the political founding; (2) political parties and elections; (3) political institutions (e.g., president, Congress, etc.); and (4) policy (e.g., domestic and foreign). Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

POS2112 STATE & LOCAL GOVERNMENT (3)
This course provides a systematic introduction to the principles and institutions of American state and local government, with some emphasis on Florida politics. It delves into the structure, functions, and decision-making processes of the 50 states and the more than 85,000 localities (governments) within those states. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

POS2601 THE AMERICAN CONSTITUTION (3)
A study of the basic elements of the U.S. Constitution as they impact society and the individual. Emphasis is placed upon the document's theoretical, as well as, pragmatic applications. Course is taught from perspectives which are primarily historical and cultural. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PSA212 PHYSICAL SCIENCES LABORATORY (1)
PSA 112 is a laboratory which allows students to collect and analyze data in a variety of experiments covering topics covered in its companion course PSA 112L. Students will create experiment reports using analysis in algebra.
Pre or Corequisite: PSA121
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=10.00

PSY2012 GENERAL PSYCHOLOGY (3)
General Psychology reviews the scientific principles related to human behavior and mental processes. Topics include the scientific method, neuroscience, learning, memory, and thinking, emotions, motivation, and health, life span development, personality, psychological disorders, and therapies, and social psychology.

This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
PSY2012L GENERAL PSYCHOLOGY LAB (1)
This laboratory course parallels and supplements the instruction given in General Psychology (PSY2012). Illustrated in this course are a variety of experimental and behavioral activities that demonstrate the scientific basis of psychology. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=3.00

PSY2043 ADVANCED GENERAL PSYCHOLOGY (3)
The rationale, methods, and application of the scientific analysis of behavior. Emphasis is placed on the lawfulness of behavior, how behavioral laws are found and used in the modification of behavior.
Prerequisite: PSY2012
Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=8.00

PSY2905 INDEPENDENT STUDY IN PSYCHOLOGY (3)
Directed study course in the Behavioral Sciences. The course will be available to both majors and non-majors who wish to investigate a particular problem. The student will make application for the course to the Head of the Behavioral Sciences Department via an Instructor. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

PSY2930 SPECIAL TOPICS: PSYCHOLOGY (3)
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the PSY2930 title published in the course schedules for each term that the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

QMB2100 QUANTITATIVE METHODS IN BUSINESS (3)
This course applies quantitative methods to business problems with emphasis on learning to select the appropriate problem solving method, applying the chosen method, and interpreting the solution. The use of quantitative methods in managerial decision making is a continuous focus of this course. Management problems are used and written managerial recommendations are required.
Prerequisite: MAT1033
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT1001 INTRODUCTION TO RADIATION THERAPY (1)
This course will provide the students with an introduction to the radiation therapy program and the role and responsibilities of a student radiation therapist. This course will also define the different personnel required for a radiation therapy department to function, and define the structure and organization of hospitals. This course will also provide an introduction into cancer and cancer management with an overview of the psychological, sociological and economical aspects of cancer.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT1111 RADIOGRAPHIC PROCESSES (2)
Introduction to radiographic processes to include photographic and geometric factors, beam restriction, grids, cassettes and screens, processing, contrast media, automatic exposure control, fluoroscopy, computed tomography, and digital imaging.
Prerequisite: RAT1001, RAT1614
Pre or Corequisite: RAT1002C, RAT1111L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT1111L RADIOGRAPHIC PROCESS LAB (1)
Practical application of radiographic imaging through exposing phantom body parts to x-radiation and image processing.
Prerequisite: RAT1001, RAT1614
Pre or Corequisite: RAT1002C, RAT1111
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=40.00

RAT1123 PATIENT CARE AND ETHICS (2)
This course is designed to give an incoming student an overview of patient care and ethics. Topics that will be covered include communication, patient safety, patient transfers, immobilization of patient and body parts, infection control, vital signs, caring for patient who have special needs, pharmacology, drug administration, case history, universal precautions, isolation techniques and medical legal issues in radiation therapy.
Pre or Corequisite: RAT1804
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT1614 INTRO RADIATION THERAPY PHYSICS (3)
Introduction to the fundamentals of physics involved in the production of X-radiation to include: mathematics, mechanics, atomic structure, electricity, magnetism, electromagnetism, X-ray interactions, and the radiographic tube.
Prerequisite: Admission to program
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT1804 CLINIC EDUCATION I (2)
Familiarization with the equipment utilized in the treatment of patients begins along with assisting the therapist in the clinical environment, simulation area, patient care nursing areas and the mold room.
Lec Hrs=0 Lab Hrs=256 Oth Hrs=40.25

RAT2021 PRINCIPLES OF RADIATION THERAPY I (3)
An introduction to the principles of radiation therapy and radiation protection providing the student with basic concepts to prepare him/her for clinical education.
Prerequisite: Program Admission.
Pre or Corequisite: RAT2023, RAT2617, RAT2814
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
RAT2022 PRINCIPLES OF RADIATION THERAPY II (3)
A continuation of the fundamentals of technologic applications in simulation and patient treatment. Prerequisite: RAT2021
Corequisite: RAT2241
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2023 RADIATION ONCOLOGY (3)
A study of the fundamentals of clinical radiation oncology stressing the following: etiology, epidemiology, histopathology, symptoms, diagnosis, staging, prognosis and the therapeutic aim of malignant conditions. Prerequisite: Program Admission.
Pre or Corequisite: RAT2021, RAT2617, RAT2814
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2240 RADIATION PATHOLOGY (3)
An introduction to the concept of disease and general pathology. The types of growth, causative factors and biological behavior of neoplastic diseases are stressed. Pharmacology with emphasis on the radiation therapy patient is included in this course.
Pre or Corequisite: RAT2021, RAT2023, RAT2617
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2241 RADIOBIOLOGY (2)
A study of the sequence of events following the absorption of energy from ionizing radiation. Factors influencing radiation effects, tissue sensitivity, tolerance, and clinical applications are considered.
Prerequisite: RAT2021
Corequisite: RAT2022
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2243 RADIATION ONCOLOGY SECTIONAL ANATOMY (2)
This course is designed to present sectional anatomy and its importance to radiation therapist in the Radiation Therapy Field. This course will include 3-D imaging identification of anatomical structures in various imaging methods and planes. Location of internal organs and critical structures by topographical anatomy will also be included. Normal anatomical structures of the head, neck, thorax, abdomen, pelvis, and spine will be presented in multi-planar sections.
Prerequisite: RAT2021 RAT2240
Corequisite: RAT2022 RAT2241
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2617 ADVANCED RADIATION THERAPY PHYSICS (3)
The fundamentals of X-ray, gamma, and corpuscular radiation as applied to radiation therapy. Teletherapy units and nuclear reactors are also discussed.
Pre or Corequisite: RAT2021 RAT2023 RAT2814
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2618 ADVANCED RADIATION PHYSICS II (3)
Advanced physics of ionizing radiation including measurements, dosages, absorption, isodose curves, filters, radioactive materials treatment planning, properties of radionuclides, radiation safety and health physics.
Prerequisite: RAT2021
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2619 DOSIMETRY AND COMPUTER TREATMENT PLANNING (2)
The study of radiation dose measurement and instrumentation usage. The need for accuracy is stressed.
Prerequisite: RAT2022 RAT2241 RAT2618 RAT2657 RAT2824
Corequisite: RAT2619L
Pre or Corequisite: RAT2834
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2619L DOSIMETRY AND COMPUTER TREATMENT PLANNING LAB (1)
Introduction to computer application in treatment planning in brachytherapy and external beam treatments.
Prerequisite: RAT2022 RAT2241 RAT2618 RAT2657 RAT2824
Corequisite: RAT2619
Lec Hrs=4 Lab Hrs=32 Other Hrs=0 Fees=4.00

RAT2657 QUALITY ASSURANCE AND PHARMACOLOGY (3)
Will present an in-depth study of the principles and concepts of quality assurance and pharmacology to include the history, theory, biological effects and their relationship to oncology.
Prerequisite: RAT2021
Corequisite: RAT2022
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RAT2814 CLINIC EDUCATION (3)
Patient treatment competency assignments begin in clinic. The student’s responsibilities increase as more complex competencies in patient treatment are mastered.
Pre or Corequisite: RAT2021 RAT2023 RAT2617
Lec Hrs=0 Lab Hrs=0 Other Hrs=384 Fees=61.68

RAT2824 CLINIC EDUCATION (3)
Advanced clinical education stressing practical application of dosimetry competencies under the direct supervision of a medical physicist or dosimetrist. Continuation of advanced patient treatment competencies under the supervision of a registered radiation therapy technologist.
Prerequisite: RAT2021 RAT2023 RAT2617
Corequisite: RAT2241 RAT2618
Lec Hrs=0 Lab Hrs=0 Other Hrs=384 Fees=61.68

RAT2834 CLINIC EDUCATION (3)
The most advanced clinical education as evidenced by the level of competency of the student upon completion of clinic RAT2824. Successful completion of this course will ensure that the student is competent upon graduation to assume all of the responsibilities required of a Registered Radiation Therapy Technologist.
Prerequisite: RAT2241 RAT2618
Pre or Corequisite: RAT2619 RAT2619L
Lec Hrs=0 Lab Hrs=0 Other Hrs=384 Fees=68.68

RAT2905 INDEPENDENT STUDY IN RADIATION THERAPY (1)

A directed study course in Radiation Therapy. The course is available to only majors who wish to investigate a particular clinical education situation. The student will make an application for the course to the head of the Medical Imaging Department via an instructor with whom he/she wants to work with.

Pre or Corequisite: RAT2834
Lec Hrs=0 Lab Hrs=0 Oth Hrs=128 Fees=51.68

### REA0007C COLLEGE PREPARATORY READING I

This course teaches basic reading skills, vocabulary, word recognition skills, and work-study skills. Placement in REA0001C is determined by CPT test scores. An EAP0320C student must have an A, B, or C in EAP0320C and have taken the CPT reading subtest to place into REA0001C.

Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=20.00

### REA007C COLLEGE PREPARATORY READING II

Teaches basic reading and study skills to prepare students for college course work.

Prerequisite: Completion of REA0001C with a grade of "C" or higher or placement by assessment test or department recommendation.

Corequisite:
Recommend ENC0010 or ENC0021 or ENC0085
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=20.00

### REA1105 COLLEGE READING STRATEGIES

Teaches efficient reading abilities, comprehension, vocabulary, speed, study techniques, and reading skills necessary to conduct investigative research. REA1105 includes all CLAST skills. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=0.00

### RED3342 FOUNDATION OF RESEARCH PRACTICE IN READ ED

This course provides an understanding of the principles of scientifically based reading research as the foundation of comprehensive instruction that synchronizes and scaffolds each of the major components of reading to assist students in mastering this process. Course will address effective research-based instruction methodology to prevent reading difficulties and promote acceleration of reading progress for struggling students, including students with disabilities, and students from diverse populations. Guided field experience provides pre-professional educators with the experience of observation and interaction with K-12 students.

Pre or Corequisite: EDF1005 EDF2085 EME2040 TSL3080
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

### RED3352 READING IN THE CONTENT AREA

This course is designed to prepare pre-service teachers of subject matter content to acquire the knowledge, skills, and techniques necessary to guide middle and secondary level students to be successful learners by addressing issues in reading instruction as an integral part of comprehending content. The course will provide classroom instructional strategies for teaching reading across the curriculum with emphasis on content areas such as science, mathematics, and social sciences. Emphasis will be given to the importance of language and cognition as well as scientifically based reading research as the basis of comprehensive instruction.

Prerequisite: EDF3280 RED3342
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

### RED4519 LIT ASSESSMENT AND DIFFERENTIATED I

This course provides an understanding of the role of assessments in guiding instruction and decision making for reading progress of striving readers. It also provides extensive knowledge of differentiated instruction with appropriate scientifically based strategies and materials for students from differing backgrounds and diverse learners.

Prerequisite: EDF3280 RED3342 RED3352
Pre or Corequisite: EEX4843 TSL4081
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

### REE1040 FLORIDA REAL ESTATE COMMISSION I

The Real Estate Commission Course I. It provides an introduction to the basic principles and theories of real property, its economic value, and the legal aspects of real estate law affecting salespersons. Successful completion qualifies a candidate to apply for the State of Florida Salesperson's License Exam. This course can be used for the AA degree.

Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=5.00

### RELI210 OLD TESTAMENT HISTORY

Reading the English Bible in various documents, and examining selected source material, with emphasis on its cultural importance today. Prerequisite: College-level reading skills. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

### RELI240 NEW TESTAMENT HISTORY

A study of the social, historical, cultural, and religious environment of the New Testament as well as of the dynamics of the beginnings and spread of the Christian Faith during the First Century A.D. and into the Second Century A.D. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

### RELI2000 INTRODUCTION TO THE STUDY OF RELIGION

An introduction to the study of religion as an academic discipline. The focus of the course is religion, not religions; an attempt is made to acquaint the student with the problems and issues ever present in the understanding of religious phenomena. Upon successful completion of this course, the students should be able to recognize, describe, and appreciate the complex phenomena of religion. Students must earn a minimum grade of "C" to the requirements of the Gordon Rule.

This course can be used for the AA degree.
REL2300 WORLD RELIGIONS (3)
This course is a descriptive examination of the world's most popular religions. College-level reading skills are recommended. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

REL2930 SPECIAL TOPICS: RELIGION (3)
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the REL2930 course title published in the course schedules for each term that the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET1026 RESPIRATORY THERAPY EQUIPMENT (3)
This course reviews all of the equipment normally used for respiratory therapy with the exception of mechanical ventilation. Emphasis is on oxygen, humidity and aerosol therapy, airway management and airway clearance techniques.
Prerequisite: BSC1085 CHM1032 MAT1033
Pre or Corequisite: RET1026L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET1026L RESPIRATORY THERAPY EQUIPMENT LAB (1)
This course allows the student to work with and master the manipulative skills required to utilize respiratory therapy equipment. Emphasis is on oxygen, humidity and aerosol therapy, and airway management.
Prerequisite: BSC1085 CHM1032 MAT1033
Pre or Corequisite: RET1026
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=10.00

RET1264 MECHANICAL VENTILATION (3)
This course describes the concepts of mechanical ventilation, current modes of ventilation, tailoring of the ventilator settings to meet patient needs, and patient assessment on mechanical ventilation. The student will learn the concepts of noninvasive ventilation and IPPB. The principles and operation of commonly used ventilators are emphasized.
Prerequisite: RET1026 RET1026L RET1485
Corequisite: RET1264L RET1484 RET1832L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET1264L MECHANICAL VENTILATION LAB (1)
This course allows the student to work with all facets of mechanical ventilation to gain hands on experience prior to entering their adult critical care rotation.
Prerequisite: RET1026 RET1026L RET1485
Pre or Corequisite: RET1264 RET1484 RET1832L
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=10.00

RET1484 CARDIO PULMONARY PATHOPHYSIOLOGY (3)
This course is designed to introduce the students to the basic concepts of cardiopulmonary disease. Included are the mechanism of altered lung structure, airway caliber, neurogenic control and pulmonary vascular function.
Prerequisite: RET1026 RET1026L RET1485
Pre or Corequisite: CVT1200 RET1264 RET1264L RET1832L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET1485 RESPIRATORY PHYSIOLOGY (3)
This course provides an in-depth study of the anatomy and physiology of the cardiopulmonary system. Included is a review of the physiology of respiration, ventilatory mechanics, neurogenic control, internal and external respiration and gas exchange.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET1832L RESPIRATORY THERAPY CLINIC I (3)
In this first clinical course, the students are oriented to, and work at, tasks of a non-critical nature. Included are oxygen and aerosol administration, chest physiotherapy, IPPB administration, and incentive spirometry. Special fee is charged.
Prerequisite: RET1026 RET1026L RET1485
Pre or Corequisite: CVT1200 RET1264 RET1484
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=52.68

RET1833L RESPIRATORY THERAPY CLINIC II (3)
This clinic course represents continuation of the activities in Clinic I. By the end of this term the student must have mastered all non-critical care duties normally performed by respiratory therapists and the fundamentals of adult critical care. Special fee is charged.
Prerequisite: CVT1200 RET1264 RET1484 RET1832L
Pre or Corequisite: RET2418
Lec Hrs=0 Lab Hrs=0 Oth Hrs=96 Fees=51.68

RET2265 ADVANCED RESPIRATORY EQUIPMENT (2)
This course introduces students to more advanced monitoring techniques in the areas of ventilation and oxygenation for the adult, pediatric and neonatal patient.
Prerequisite: RET1833L RET2418
Pre or Corequisite: RET2265L RET2714
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET2265L ADVANCED RESPIRATORY EQUIPMENT LAB (1)
This course provides hands on interaction for students to learn the techniques of more advanced monitoring in the areas of ventilation and oxygenation for the adult, pediatric and neonatal patient.
Prerequisite: RET1832L RET2418
Pre or Corequisite: RET2265 RET2714 RET2834L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=39.00

RET2286C MANAGEMENT OF THE INTENSIVE CARE PATIENT (2)
This course provides an in depth discussion of several disease processes of the lung as well as other issues concerning the respiratory intensive care patient. This course
fosters the physician to student relationship by providing physician lectures and clinical rounds with physicians.
Prerequisite: RET2414 RET2414L RET2714 RET2834L RET2934
Corequisite: RET2601 RET2835L
Lec Hrs=20 Lab Hrs=12 Oth Hrs=0 Fees=0.00

RET2414 RESPIRATORY THERAPY PULMONARY FUNCTION (1)
This course reviews techniques used for pulmonary function testing, blood gas analysis and the basic principles of cardiopulmonary stress testing. Techniques used in the diagnosis of cardiopulmonary disease are covered.
Prerequisite: RET1485 RET1833L RET2418
Corequisite: RET2414L RET2714 RET2834L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET2414L PULMONARY FUNCTION LAB (1)
This course provides the opportunity to practice the techniques used for spirometric determination of lung volumes and flow rates and the basic principles of cardiopulmonary stress testing.
Prerequisite: RET1485
Pre or Corequisite: RET2414
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=27.00

RET2418 CARDIOPULMONARY DIAGNOSTICS AND TECHNIQUES (2)
This course is designed to prepare the student to be a competent member of the resuscitation team, to assess cardiac function via EKG's and hemodynamic monitoring, and to prepare the student for advanced cardiac life support training.
Prerequisite: CVT1200 RET1485 RET1832L
Pre or Corequisite: RET1833L
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET2601 RESPIRATORY THERAPY MANAGEMENT (1)
This course is designed to assist the student in successfully making the transition from the role of a student to that of a competent member of the health care team. Objectives include advanced cardiac life support certification and becoming a member of the national and state organization for respiratory care. Emphasis is placed on preparation and application for the national credential examinations and for the Florida state license.
Prerequisite: RET2414 RET2414L RET2714 RET2834L RET2934
Corequisite: RET2286C RET2835L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET2714 PEDIATRIC AND NEONATAL RESPIRATORY (3)
This course emphasizes neonatal and pediatric diseases, their etiology and treatment. It encompasses the newest equipment and latest techniques used in monitoring and maintaining the respiratory compromised infant and pediatric patient.
Prerequisite: RET1833L RET2418
Pre or Corequisite: RET2414 RET2834L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RET2834L RESPIRATORY THERAPY CLINIC III (3)
This clinical course is designed to introduce the student to all aspects of respiratory therapy critical care. The students will work primarily with patients requiring continuous ventilatory support. Special fee is charged.
Prerequisite: RET1833L RET2418
Pre or Corequisite: RET2414 RET2714
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=51.68

RET2835L RESPIRATORY THERAPY CLINIC IV (3)
This is a continuation of the activities in Clinic III. The student's responsibility will increase as his clinical skills become more sophisticated. By the end of this term the student will assume all of the responsibilities required of critical care therapists with patients requiring ventilatory management or support. Special fee is charged.
Prerequisite: RET2414 RET2834L
Pre or Corequisite: RET2286C RET2601
Lec Hrs=0 Lab Hrs=0 Oth Hrs=256 Fees=51.68

RET2934 SELECTED TOPICS IN RESPIRATORY CARE (1)
This course will present information on recent changes in technology and therapeutic modalities used in Respiratory Care. The student will participate in literature review activities to enable them to remain knowledgeable of ongoing changes in the profession after they become Respiratory Care practitioners.
Prerequisite: RET1833L RET2414 RET2414L RET2418
Corequisite: RET2714 RET2834L
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1000 INTRODUCTION TO RADIOLOGIC TECHNOLOGY (3)
The organization and operation of a radiology department; radiologic topics include: x-ray equipment operation, historical aspects of radiography, department organizational structure, safety, radiation protection, imaging media and receptors, image processing techniques, basic exposure factors, and accreditation and professional development.
Pre or Corequisite: RTE1111 RTE1503 RTE1503L RTE1804
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1111 PATIENT CARE, LAW, & ETHICS (2)
An introduction to the principles and practices of patient care during radiographic examinations. Topics include medical ethics, legal issues, patient assessment & communication, patient care & safety, infection control, surgical asepsis, vital signs & oxygen administration, electrocardiography, medical emergencies, trauma & mobile considerations, the care of pediatric & geriatric patients, patient care during urologic & GI exams, & care of patients needing alternative treatments.
Pre or Corequisite: RTE1000 RTE1503 RTE1804
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1418 IMAGING I (2)
A study of the production and properties of X-radiation, primary exposure factors as they relate to the formulation of
radiographic technique, the properties and characteristics of imaging media and the primary factors of radiographic quality.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418L RTE1513 RTE1513L RTE1613 RTE1814
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1418L IMAGING I LAB (1)
Practical application of theory taught in RTE1418. Students perform laboratory experiments to demonstrate concepts taught in lecture.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1513 RTE1513L RTE1613 RTE1814
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1503 RADIOGRAPHIC PROCEDURES I (3)
A study of radiographic procedures of the chest, abdomen, gastrointestinal tract, and biliary and urinary systems. Students will study the anatomy, the radiographic positions/projections, along with the trauma, mobile and pediatric considerations relating to each area covered.

Pre or Corequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1503L RADIOGRAPHIC PROCEDURES I LAB (1)
Practical application of Radiographic Procedures I class, to include radiography of the chest, abdomen, biliary system and gastrointestinal tract, urinary system, and related trauma and mobile examinations of adults and pediatric patients.

Pre or Corequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=4.00

RTE1513 RADIOGRAPHIC PROCEDURES II (3)
A study of radiographic procedures of the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, and related trauma, mobile, and pediatric examinations. Students will study the radiographic positions/projections for each body part and its associated anatomy.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1513L RTE1613
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1513L RADIOGRAPHIC PROCEDURES II LAB (1)
Practical application of radiographic procedures & positioning to include the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, & related trauma & mobile examinations.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1513L RTE1613
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=4.00

RTE1523 RADIOGRAPHIC PROCEDURES III (2)
A study of radiographic procedures of the cervical spine, thoracic spine, lumbar spine, sacrum & coccyx, skull & cranial bones, facial bones & sinuses, and related trauma, mobile, and pediatric examinations. Students will study the radiographic positions/projections for each body part and its associated anatomy.

Prerequisite: RTE1418 RTE1418L RTE1513 RTE1513L RTE1613 RTE1814
Pre or Corequisite: RTE1523L RTE1824
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1523L RADIOGRAPHIC PROCEDURES III LAB (1)
Practical application of radiographic procedures & positioning to include the cervical spine, thoracic spine, lumbar spine, sacrum & coccyx, skull & cranial bones, facial bones & sinuses, & related trauma & mobile examinations.

Prerequisite: RTE1418 RTE1418L RTE1513 RTE1513L RTE1613 RTE1814
Pre or Corequisite: RTE1824 RTE1523 RTE2834
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=5.00

RTE1613 RADIOGRAPHIC PHYSICS (2)
Introduction to the fundamentals of physics involved in the operation of radiographic equipment to include: units of measurement, matter, energy, mechanics, magnetism, electrostatics, and electrodynamics.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1418L RTE1513 RTE1513L RTE1613 RTE1814
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE1804 CLINICAL EDUCATION I (2)
Provides the student with clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include an orientation to the hospital & imaging department, patient transportation & clerical functions, image processing, the main department, portables, the emergency room, & other ancillary imaging areas. Students will perform radiographic exams of the chest, abdomen, biliary tract & upper gastrointestinal system, lower gastrointestinal system, & urinary system.

Pre or Corequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1613 RTE1814
Lec Hrs=0 Lab Hrs=256 Oth Hrs=62.68

RTE1814 CLINICAL EDUCATION II (2)
Provides the student with continuing clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include the main department, portables, the emergency room, & other ancillary imaging areas. Students will perform radiographic exams of the upper limb, humerus & shoulder girdle, lower limb, femur & pelvic girdle, bony thorax, & procedures previously learned.

Prerequisite: RTE1000 RTE1111 RTE1503 RTE1503L RTE1804
Pre or Corequisite: RTE1418 RTE1418L RTE1513 RTE1513L RTE1613 RTE1814
Lec Hrs=0 Lab Hrs=256 Oth Hrs=62.68

RTE1824 CLINICAL EDUCATION III (2)
Provides the student with continuing clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include the main department, portables, the emergency room, & other ancillary imaging
RTE2457 RADIOGRAPHIC EQUIPMENT & QUALITY ASSURANCE (3)
A study of the physical basis of operation of radiographic equipment. Emphasis includes x-ray equipment components, x-ray tubes, image tubes, intensifiers, TV monitors and video recorders, serial imaging, generators, image subtraction techniques, digital equipment, non-film imaging equipment, accessory equipment, x-ray production and interaction processes, Quality Assurance and CT equipment.
Prerequisite: RTE2385 RTE2457 RTE2457L RTE2533 RTE2834
Pre or Corequisite: RTE2130 RTE2130L RTE2782 RTE2844
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=12.00

RTE2782 RADIOGRAPHIC PATHOLOGY (1)
An introduction to the study of human disease and the radiographic appearances of specific diseases. Topics will include: Pathogenesis, disease classification systems, and the study of specific diseases of the respiratory, skeletal, gastrointestinal, hepatobiliary, urinary, cardiovascular & hematopoietic, nervous, endocrine and reproductive systems with radiologic imaging considerations.
Prerequisite: RTE2385 RTE2457 RTE2457L RTE2533 RTE2834

Course Descriptions

RTE2061 RADIOGRAPHY SEMINAR (1)
A review of the topics studied during the Radiography Program to help students prepare for the American Registry of Radiologic Technologists (ARRT) Certification Exam and to transition to the role of professional care-giver. Topics include radiation protection, equipment operation & quality assurance, image production & evaluation, radiographic procedures, and patient care & education.
Prerequisite: RTE2130 RTE2130L RTE2623 RTE2782 RTE2844
Pre or Corequisite: RTE2854
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE2130 PHARMACOLOGY & VENIPUNCTURE FOR RADIOGRAPHY (1)
A study of pharmacology & venipuncture related to the administration of drugs & contrast media for radiographic examinations. Topics include pharmacology principles, parenteral contrast media, drug administration, & venipuncture technique.
Prerequisite: RTE2385 RTE2457 RTE2457L RTE2533 RTE2834
Pre or Corequisite: RTE2130L RTE2623 RTE2782 RTE2844
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE2130L PHARMACOLOGY & VENIPUNCTURE FOR RADIOGRAPHY LAB (1)
Practical application of the principles of pharmacology & venipuncture related to the administration of drugs & contrast media for radiographic examinations.
Prerequisite: RTE2385 RTE2457 RTE2457L RTE2533 RTE2834
Pre or Corequisite: RTE2130L RTE2623 RTE2782 RTE2844
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=14.00

RTE2385 RADIATION BIOLOGY AND PROTECTION (2)
Study of the biological effects associated with exposure to ionizing radiation and the accepted radiation protection principles and practices. Topics will include radiation sources, radiation matter interaction modes, cellular, tissue and total body biological response patterns, radiation detection and measurement and Federal and State radiation protection guidelines relating to equipment and personnel.
Prerequisite: RTE1523L RTE1523 RTE1824 RTE1824
Pre Corequisite: RTE2457 RTE2457L RTE2533 RTE2844
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTE2457 IMAGING II (2)
A study of the factors that affect radiographic image quality, solving technique problems, automatic exposure control, & development of technique charts.

RTE2457L IMAGING II LAB (1)
Practical application of theory taught in RTE2457 class. Students perform laboratory experiments to demonstrate factors affecting radiographic quality.
Prerequisite: RTE1523 RTE1523L RTE1824
Pre or Corequisite: RTE2385 RTE2457L RTE2533 RTE2834
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=25.00

RTE2834 RADIOGRAPHIC PROCEDURES IV (2)
A study of radiographic procedures to include computed tomography (CT), surgical radiography, arthrography, hysterosalinography, myelography, sialography, orthoroentgenography, mammography, bone densitometry, angiography & interventional examinations, magnetic resonance imaging (MRI), sonography, nuclear medicine, & radiation therapy. Students will study the radiographic positions/projections for each body part/procedure and its associated anatomy.
Prerequisite: RTE1523 RTE1523L RTE1824
Pre or Corequisite: RTE2385 RTE2457 RTE2457L RTE2834
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

RTE2854 INTRODUCTION TO MAGNETIC RESONANCE (3)
A study of the clinical applications and principles of Magnetic Resonance Imaging. Basic MR physics, history, hardware, safety, and important aspects of the MR exam are among the topics covered to introduce the student to the MR Imaging Technology profession. Prerequisites: Graduation from a two year allied health program.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=12.00
PREPARATION FOR a clinical rotations include the main department, portables, the emergency room, the operating room, computed tomography (CT), angiography/interventional, cardiac catheterization lab, other ancillary imaging areas, & evenings. Students will perform, assist with, and/or observe CT scans, surgical exams, arthrograms, myelograms, hysterosalpingograms, sialograms, orthoroentgenograms, mammograms, bone density studies, angiograms, & procedures previously learned.

Prerequisite: RTE1523 RTE1523L RTE1824
Pre or Corequisite: RTE2385 RTE2457 RTE2457L
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=62.68

RTE2844 CLINICAL EDUCATION V (3)
Provides the student with continuing clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include the main department, portables, the emergency room, the operating room, computed tomography (CT), magnetic resonance imaging (MRI), sonography, nuclear medicine & PET, radiation therapy, other ancillary imaging areas, & evenings. Students will perform, assist with, and/or observe MRI scans, sonograms, nuclear medicine scans, radiation therapy, & procedures previously learned.

Prerequisite: RTE2385 RTE2457 RTE2457L RTE2533 RTE2834
Pre or Corequisite: RTE2130 RTE2130L RTE2623 RTE2782
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=62.68

RTE2854 CLINICAL EDUCATION V I (1)
Provides the student with terminal clinical experience for practical application of concepts & skills taught in the program. Clinical rotations include the main department, portables, the emergency room, the operating room, & other ancillary imaging areas. Students will perform all radiographic exams previously learned to include the chest & bony thorax, abdomen, upper & lower extremities, spine, cranium, contrast media studies, & surgical procedures.

Prerequisite: RTE2130 RTE2130L RTE2623 RTE2782 RTE2844
Pre or Corequisite: RTE2061
Lec Hrs=0 Lab Hrs=0 Oth Hrs=144 Fees=62.68

RTV2000 INTRODUCTION TO RADIO AND TELEVISION (3)
An introduction to the broadcast media through which the students should gain an understanding of the historical, technical, legal, & critical aspects of radio and television media. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

RTV2102 BROADCAST WRITING (3)
Designed to give students an opportunity to learn the style of presentation for different types of media/broadcast scripts. The course will emphasize practical broadcast writing skills, radio and television copy techniques and forms of commercial copy, as well as learning the special rules and regulations governing the presentation of materials "over the air." Instructor's approval or Prerequisite: ENC1101 ENC1102. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RTV2241C TELEVISION PRODUCTION I (3)
In this course the student will acquire understanding of the theory and practice of television program production and directing with emphasis on studio production. There is a requirement of two hours of television laboratory production per week. Completion of RTV2000 recommended prior to taking this course. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=50.00

RTV2949 CO-OP WORK EXP (3)
A course designed to provide training in a student field of study through work experience. Students are graded on the basis of documentation of learning acquired as reported by students and employer. Prerequisite: Co-Op department approval. Student will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=0 Oth Hrs=0 Fees=0.00

RUS1120 BEGINNING RUSSIAN I (4)
Fundamentals of speaking, understanding, reading and writing. Classroom practice and exercises supplemented by language laboratory. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

RUS1121 BEGINNING RUSSIAN II (4)
Continuation of RUS1120. Further development of the basic skills. Selected readings.
Prerequisite: RUS1120. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

SCE3320 INTEGRATIVE TEACHING METHODS IN MIDDLE GRADES SCIENCE (3)
This inquiry-based course involves active participation and reflection of the learning process which will promote the growth and development of equitable middle school science constructs. The Pre-service educator will apply knowledge previously acquired in individual content science courses and communicate them by designing an integrated and lab-based science curriculum unit. Students will be required to spend 2 non-credit hours per week for a mandatory 20 hours as part of a field experience component. Course completers will teach integrated science concepts using the inquiry processes as the basis for teaching and learning Science in middle schools.
Prerequisite: EDF3280
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

SCE3941 TEACHING MIDDLE AND SECONDARY SCHOOL SCIENCES PRACITCUM (3)
Science educators are faced with many unique sets of circumstances that are not encountered in other disciplines.
These include unique legal and safety considerations, equipment acquisition and organization, and participation in programs that provide key resources. This course shall prepare the pre-professional science educator with some of the key tools and strategies that are utilized in the science classroom. Each unit focuses on one of the major areas that science educators will experience. The course is presented as a series of hands on experiences in which the student is involved in graded planning or concept exercises, followed by observed and graded application or execution of those plans.

**Prerequisite:** SCE4330
**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25**

**SCE3943 INTERACTIVE PROJECTS THAT PROMOTE LEARNING IN SCIENCE** (3)
This inquiry based course involves active participation and reflection of the learning process that will promote the growth and development of equitable middle and high school constructs. The Pre-professional educator will apply knowledge previously acquired in individual content science courses and communicate them by designing an integrated and lab-based curriculum unit. Course completers will teach integrated science concepts using inquiry processes as the basis for teaching and learning Science in middle and high schools.

**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25**

**SCE4330 METHODS AND STRATEGIES OF TEACHING** (3)
This course is designed to introduce methods and strategies that have been proven to be effective for teaching secondary biology. This course will include topics in appropriate instructional techniques and selection of appropriate resources for diverse classroom activities. Students will learn principles of effective curriculum design and assessment and how to apply these principles by designing and developing interactive biology projects for secondary school students including real world applications.

**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25**

**SCE4945 STUDENT TEACHING IN SCIENCE** (12)
This course is designed to "provide students with multiple opportunities to practice implementing the 12 Florida Educators Accomplished Practices including effective planning, instruction, management and assessment techniques in a real-world middle and high school classroom setting under the supervision of a certified teacher."

**Lec Hrs=12 Lab Hrs=0 Oth Hrs=525 Fees=30.25**

**SLS1001 STRATEGIES FOR SUCCESS** (3)
This course is tailored for First Time in College students and provides opportunities to learn about Broward College and higher education, acquire and practice learning strategies, explore personal learning styles, identify career options, and develop life-long skills for responsible citizenship. This course can be used for the AA degree.

**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**SLS1261 LEADERSHIP** (3)
The purpose of this course is to provide effective leadership skills for student leaders to help them develop an ethical, value grounded leadership style for future educational, organizational and community leadership roles. This course can be used for the AA degree.

**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**SLS1301 CAREER PLANNING WORKSHOP** (2)
This course is a study of the career decision making process. The student will learn the skills necessary for career decision making as it applies to their individual characteristics (including values, interests, abilities, goals, strengths, etc.). This course can be used for the AA degree.

**Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**SLS1501 COLLEGE SUCCESS SKILLS** (1)
This course is designed primarily for freshman students. It serves as an introduction to Broward College and assists students in coping with challenges of college life, clarifying their goals, learning strategies and skills that will help them succeed in college and life. Topics covered include test-taking, note-taking, listening skills, memory techniques, academic regulations, ideas for wellness, understanding of diversity and career issues that face college students. This course can be used for the AA degree.

**Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**SON1003L FUNDAMENTALS OF SONOGRAPHY LAB** (1)
This course incorporates an introduction to ultrasound scanning techniques using ultrasound equipment to practice the principles and protocols to the performance of adequate diagnostic sonographic imaging and Doppler procedures in a supervised setting.

**Prerequisite:** SON1100 SON1170
**Corequisite:** SON1121 SON1211 SON1214 SON1804
**Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=17.00**

**SON1100 PRINCIPLES AND PROTOCOLS OF SONOGRAPHY** (3)
An introduction to the basic approaches to sonographic scanning and scanning protocols for the abdomen and pelvis. Prerequisite: Program Admission.

**Pre or Corequisite:** SON1170
**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=17.00**

**SON1100L PRINCIPLES AND PROTOCOLS OF SONOGRAPHY LAB** (2)
An introduction to the basic approaches to sonographic scanning and scanning protocols for the abdomen and pelvis.

**Pre or Corequisite:** SON1170
**Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00**

**SON1111 ABDOMINAL SONOGRAPHY I** (3)
An introduction to the cross-sectional anatomy of the abdominal area and its recognition on sonographic visualization systems.

**Prerequisite:** SON1100 SON1170
**Pre or Corequisite:** SON1121 SON1211 SON1214
**Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00**

**SON1112 ABDOMINAL SONOGRAPHY II** (3)
An in-depth presentation of sonographs of the abdominal area stressing deviations from the norm and the studies to make a diagnostically acceptable study.
Prerequisite: SON1111 SON1121 SON1211
Pre or Corequisite: SON1122 SON1212 SON1215
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1121 SONOGRAPHIC OB/GYN I
An introduction to the cross-sectional anatomy of the female reproductive system with and without an existing pregnancy. The sonographic recognition of the normal throughout all terms of pregnancy is presented.
Prerequisite: SON1100 SON1170
Pre or Corequisite: SON1111 SON1211 SON1214
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1122 SONOGRAPHIC OB/GYN II
The detection of anomalies, pathology, deviation from normal and the planes which must be sonographically imaged for accurate diagnosis is stressed.
Prerequisite: SON1111 SON1121 SON1211
Pre or Corequisite: SON1112 SON1212 SON1215
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1141 SMALL PARTS SONOGRAPHY
A general introduction to the areas of carotid, eye, thyroid, prostate, scrotum, breast and other superficial structures.
Prerequisite: SON1112 SON1122 SON1212
Pre or Corequisite: SON11824
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1170 SONOGRAPHY OF THE CIRCULATORY SYSTEM
An introduction to the hemodynamics of the circulatory systems and the sonographic imaging and Doppler assessment of the cardiac and vascular structures.
Prerequisite: Program Admission.
Pre or Corequisite: SON1100
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1211 MEDICAL SONOGRAPHIC PHYSICS I
A study of the principles of diagnostic ultrasound, the fundamental properties of ultrasonic physics, stressing tissue interactions, and interfaces. Focusing characteristics, methods, intensity, and power considerations are introduced along with system resolution considerations.
Prerequisite: SON1100 SON1170
Pre or Corequisite: SON1111 SON1121 SON1214
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1212 MEDICAL SONOGRAPHIC PHYSICS II
A continuation of the study of the properties of diagnostic ultrasound stressing the operation of diagnostic equipment, the display systems, biological effects and quality assurance methods. Current developments in ultrasound are reviewed, discussed, and evaluated.
Prerequisite: SON1111 SON1121 SON1211
Pre or Corequisite: SON1112 SON1122 SON1215
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON1214 PRACTICAL ASPECTS OF SONOGRAPHY I
A study of the principles of diagnostic ultrasound and practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination. Stressing the operation of diagnostic ultrasound equipment and routine images obtained.
Prerequisite: SON1100 SON1170
Pre or Corequisite: SON1111 SON1121 SON1211
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=17.00

SON1215 PRACTICAL ASPECTS OF SONOGRAPHY II
Offering more advanced principles of diagnostic ultrasound, adding knowledge of pathological processes. Further presenting the practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination. Stressing the correlation of all patient data, including sonographic images obtained to assist in the differential diagnosis process.
Prerequisite: SON1111 SON1211 SON1214
Pre or Corequisite: SON1112 SON1212 SON1814
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=17.00

SON1804 CLINIC A
Clinical education requiring application of the knowledge learned. Professionalism and personal interaction are stressed along with technical abilities. As the student progresses he or she will be performing examinations with less and less supervision.
Prerequisite: SON1100 SON1170
Pre or Corequisite: SON1111 SON1211 SON1211
Lec Hrs=48 Lab Hrs=0 Oth Hrs=384 Fees=76.68

SON1814 CLINIC B
A continuation of the learning by doing process where more responsibility in the form of decision making regarding anatomical areas and resultant imaging is assumed by the student being supervised.
24 Hr. clinical per week. Term II.
Prerequisite: SON1111 SON1211 SON1804
Pre or Corequisite: SON1112 SON1212 SON1212
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=76.68

SON1824 CLINIC C
This clinical course is designed to provide students the opportunity to make judgmental decisions regarding technical aspects, to interact in a professional manner with those with whom he/she comes in contact with, and to generally progress to the point where, after successful testing, he/she may be accepted as a competent sonographer for general sonographic exams.
Prerequisite: SON1112 SON1122 SON1814
Pre or Corequisite: SON1141
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=76.68

SON2061 SEMINAR IN SONOGRAPHY
A discussion and presentation seminar course on interpersonal skill refinement, employment techniques, and career development. The course also provides a comprehensive curriculum review of all aspects of Sonography and presents details on applying for licensure as students prepare for the transition to the work place.
Prerequisite: SON2400 SON2834
Pre or Corequisite: SON2161 SON2844
SON2161 NEONATAL NEUROSONOGRAPHY (2)
An introduction to the sonographic imaging of the neonatal and infant brain. Emphasis is placed on normal brain anatomy, congenital and acquired pathological conditions, as well as sonographic scanning techniques.
Prerequisite: SON2400 SON2834
Pre or Corequisite: SON2401 SON2844
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON2171 VASCULAR SONOGRAPHY (3)
Venous and arterial anatomy and hemodynamic functions, both normal and abnormal are stressed. Sonographic imaging techniques for vascular structures and Doppler spectral analysis of normal and pathological patterns are also studied. Student must be an American Registry for Diagnostic Medical Sonography (ARDMS) Registered Sonographer. Special Fee Charged.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=2.00

SON2175 VASCULAR SONOGRAPHY II (3)
Arterial anatomy below the neck and head, and its hemodynamic functions, both normal and abnormal, are stressed, along with sonographic imaging techniques for arterial vascular structures, non-imaging testing modalities, and Doppler analysis of normal and abnormal flow patterns.
Prerequisite: SON2171
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=2.00

SON2176 VASCULAR SONOGRAPHY III (3)
Venous and arterial anatomy and hemodynamic functions of the circulatory system of the neck and head, both normal and abnormal, are stressed, along with sonographic imaging techniques for vascular structures and Doppler analysis of normal and abnormal flow patterns. An understanding of the process of test validation and interpretation of test results will be covered.
Prerequisite: SON2175
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=2.00

SON2400 INTRODUCTION TO ECHOCARDIOGRAPHY (2)
Anatomy of the heart and the procedures used in screening are introduced stressing recognition of the normal versus abnormal. Prerequisite: Program Admission or Permission by Program Manager and
Prerequisite: SON1141 SON1824
Pre or Corequisite: SON2400L SON2834
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON2400L INTRODUCTION TO ECHOCARDIOGRAPHY LAB (1)
Laboratory sessions for Introduction to Echocardiography Lab (SON 2401L) are designed to provide opportunities for the students to practice basic skills of sonographic scanning techniques of normal cardiac structures including real-time and Doppler scanning techniques. Performance of special tests will be practiced on a cardiac simulator. This course incorporates basic ultrasound scanning techniques using ultrasound equipment to practice the principles and protocols to the performance of basic Cardiac diagnostic sonographic imaging and Doppler procedures in a supervised setting.
Prerequisite: SON1141 SON1824
Pre or Corequisite: SON2400 SON2834
Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=0.00

SON2401 ECHOCARDIOGRAPHY II (2)
An in-depth presentation of the intricacies of diagnostic ultrasound as it applies to the heart and the chest stressing its capabilities and its limitations.
Prerequisite: SON2400 SON2834
Pre or Corequisite: SON2161 SON2844
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SON2401L ECHOCARDIOGRAPHY II LAB (1)
Laboratory sessions for Echocardiography II Lab (SON 2401L) are designed to provide opportunities for the students to practice advanced skills of sonographic scanning techniques of normal and abnormal cardiac structures including real-time and Doppler scanning techniques. Performance of special tests will be practiced on a cardiac simulator. This course incorporates advanced ultrasound scanning techniques using ultrasound equipment to practice the principles and protocols to the performance of entry-level Cardiac diagnostic sonographic imaging and Doppler procedures in a supervised setting.
Prerequisite: SON1824 SON2400 SON2400L SON2834
Pre or Corequisite: SON1141 SON2401
Lec Hrs=48 Lab Hrs=48 Oth Hrs=0 Fees=0.00

SON2834 CLINIC D (3)
A course designed to add additional clinical competencies to those gained in the specialties mastered in the first year. Emphasis on specialty of echocardiography with clinical application of classroom material presented. To continue to make judgment decisions regarding the technical aspects of diagnostic sonographic exams.
Prerequisite: SON1141 SON1824
Pre or Corequisite: SON2400
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=76.68

SON2844 CLINIC E (3)
Application of all the materials presented requiring the student to interact in a professional manner, to make judgment decisions regarding the technical aspects, and to generally progress to the point where he/she may be accepted as a competent sonographer. Further mastering of all skills gained, emphasizing echocardiography and cardiovascular examination techniques. Clinical application of classroom material presented.
Prerequisite: SON2400 SON2834
Pre or Corequisite: SON2161 SON2401
Lec Hrs=0 Lab Hrs=0 Oth Hrs=384 Fees=76.68

SOP2002 SOCIAL PSYCHOLOGY (3)
This course provides scientifically based constructs used in understanding social phenomena and their impact on the individual. Identification of the social and psychological variables that give human behavior a predictable base is stressed. Topics considered include human nature, psychological development, sex role identification love, affiliation, aggression, image management, attitudes, opinion manipulation, morality, leadership, group dynamics,
SOW2020 INTRODUCTION TO SOCIAL WELFARE (3)
This is a beginning course in the behavioral science based field of social work. It aims at introducing the student to the historical, welfare services and the profession of social work. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPC1024 INTRODUCTION TO SPEECH COMMUNICATION (3)
This course is designed to provide students with the fundamentals of speech communication including speaking and listening. Topics include: intrapersonal, interpersonal, verbal, nonverbal, small group communication, and public speaking in various cultural contexts. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPC1420 INTRODUCTION TO GROUP TECHNIQUES (3)
Upon completion of this course, the student will have acquired communication skills that will enable him or her to function more effectively in various group settings utilizing group discussions and conference techniques to resolve social, business and professional problem. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPC1511 ARGUMENTATION AND DEBATE (3)
The student, upon completion of this course, should achieve proficiency in the principles of argumentation including analysis, evidence, inference, and refutation as they pertain to the debate situation in democratic society. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPC1608 INTRODUCTION TO PUBLIC SPEAKING (3)
This course is designed to provide students with fundamental training and practical experience for speaking in public, business, and professional situations. Topics include: audience analysis, speech anxiety, critical listening, and preparation and delivery of speeches in various cultural contexts. This course can be used for the AA degree.
Lec Hrs=32 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPC2300 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3)
Upon completion of this course, the student should demonstrate an understanding of the basic concepts of interpersonal communication with emphasis on perception, self-awareness, dyadic communication, small group communication, and communication conflict. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPN1000 ELEMENTARY SPANISH CONVERSATION (3)
A custom made course for those residents in the community who require a cursory knowledge of Spanish to help them communicate with Spanish speaking people. One hour language laboratory weekly. Special fee charged. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=15.00

SPN1120 BEGINNING SPANISH I (4)
Fundamentals of speaking, listening-comprehension, reading, writing, and Hispanic culture. Classroom practice and exercises supplemented by laboratory and/or multi-media designed to develop communicative competence and cultural sensitivity. Student expected to continue further implementation and expansion of their proficiencies in SPN1121 and SPN2220. Students are encouraged to study abroad. This course can be used for the AA degree.
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

SPN1121 BEGINNING SPANISH II (4)
Continuation of SPN 1120. Further development of the basic skills in speaking, listening-comprehension, reading, writing, and appreciation of culture. Classroom practice and exercises supplemented by laboratory and/or multi-media activities designed to develop and enhance communicative competence and cultural sensitivity. Skills and concepts are further polished in SPN 2220. Students are encouraged to study abroad. This course can be used for the AA degree.
Prerequisite: SPN1120
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

SPN1170 SPANISH STUDY TRAVEL (3)
A course designed for students who wish to combine the study of Spanish with subsequent travel to a Spanish speaking region. This course can be used for the AA degree.
Prerequisite: SPN2220
Lec Hrs=15 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPN2201 INTERMEDIATE SPANISH II (3)
Emphasis on composition, reading comprehension and conversation. A more in depth review of the history, geography, literature, and current issues of Spain and Spanish America. Students will acquire a greater knowledge of these diverse two cultures and gain more fluency in oral and written communication. This course completes the intermediate level. Students are encouraged to study abroad.
Prerequisite: SPN2220
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SPN2220 INTERMEDIATE SPANISH I (4)
Continuation of SPN1121. Polishing of skills in speaking, listening comprehension, reading, writing and appreciation of culture and an introduction of new grammatical and idiomatic material. Classroom practice and exercises supplemented by laboratory and multi-media activities
designed to develop and enhance communicative competence and cultural sensitivity. Compositions and readings in Hispanic prose and culture. Students are encouraged to study abroad. This course can be used for the AA degree.
Prerequisite: SPN1121
Lec Hrs=64 Lab Hrs=0 Oth Hrs=0 Fees=15.00

SPN2340 BEGINNING SPANISH FOR SPANISH SPEAKERS
This course is designed for Spanish Speakers who have an oral command of the language but whose knowledge of written and/or formal Spanish is incomplete. Class is conducted in Spanish with emphasis on improvement of spelling, grammar, vocabulary, reading, writing, and oral skills. Emphasis will be placed on the correction of typical errors created by the influence of the English language. Every unit will cover important cultural aspects of the Hispanic world.
Prerequisite: To be a heritage or native speaker of Spanish.
Special fee charged.
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=16 Oth Hrs=0 Fees=15.00

SPN2955 STUDY ABROAD: ADVANCED COMPOSITION AND CONVERSATION I
For students wishing to attain greater proficiency in spoken and written Spanish. Conversation and composition based on selected readings and a variety of contemporary topics. This course is used only in BCC Study Abroad Programs.
Prerequisite: SPN2201
This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

STA2023 STATISTICS
A first course in statistical methods including such topics as collecting, grouping, and presenting data; measures of central tendency, position, and variation; theoretical distributions; probability; test of hypotheses; estimation of parameters; and regression and correlation. Use of statistical computer software and/or a scientific calculator (capable of performing 2-variable statistics) will be required. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required.
Prerequisite: MAT1033. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=22.00

SUR2001L SURVEYING I LAB
The student is required to assume various duties as a member of a survey party. Field practice includes setting corner stakes, batter boards, and bench marks. Prerequisite satisfied or instructor approval.
Prerequisite: MAC1105
Pre or Corequisite: SUR2001
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=40.00

SWS2242C WETLANDS MANAGEMENT I
This course provides the background to define a wetland using indigenous plant forms, aquatic conditions, geology and applicable laws and regulations. The strategies and techniques needed to maintain natural habitats are outlined. Course consists of classroom and extensive field work. Completion of any of the horticultural biology, zoology, or native plant courses would be helpful and is suggested.
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

SWS2243C WETLANDS MANAGEMENT II
This course provides the background needed to design, implement, monitor and maintain a functional wetland, both fresh water and coastal, in South Florida. Course consists of classroom and extensive field work.
Prerequisite: SWS2242C
Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=10.00

SYG2000 PRINCIPLES OF SOCIOLOGY
This course is designed to introduce students to the basic terminology, theories, research and topics sociologists study. More specifically, students will be introduced to the relationship between the individual and society; how social structures, such as organizations, family, the mass media, etc., shape views, perceptions, and behaviors; and to society’s issues and problems. Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2010 SOCIAL PROBLEMS
This course is an examination of the major social problems found in our changing social environment. More specifically, students will be introduced to a variety of topics which may include inequality based on class, race, ethnicity, education, age; violence in society; the changing family; social problems related to gender and sexual behavior; global social problems. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2212 SOCIETY AND THE ENVIRONMENT
A study of humanity’s social systems and the resulting impact of their technologies on the natural environment and natural life support systems. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2230 CONTEMPORARY RACE AND
Course Descriptions

ETHNIC STUDIES (3)
A study of minority dominant relations with emphasis on ethnic, racial, and religious minorities. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2322 JUVENILE DELINQUENCY (3)
A study of juvenile and delinquent behavior and its development which focuses on the social structure of society to find patterns of delinquent activity and its causations. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2323 INTRODUCTION TO CRIMINOLOGY (3)
A study of crime and criminal behavior, and its cause and related effects on society, with an emphasis given to criminal theory, and the sociological implications of criminal behavior. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2340 SOCIOLOGY OF HUMAN SEXUALITY (3)
The Sociology of Human Sexuality is a general review of the scientific principles related to the study of human sexuality. Topics include: the cultural context of sexuality, theoretical perspectives of sexuality, research methods, gender/sex roles, sexual orientation, sexual coercion, sexual anatomy, sexual arousal, pregnancy, STDs, love and human intimacy, and human sexuality through the life course. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2421 MARRIAGE AND FAMILIES: INTERCULTURAL COMPARISON (3)
A study of the institution of the family utilizing historical, cross cultural and sub-cultural comparisons to understand the background evolution and current familiar structures of the world. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2441 SOCIAL INSTITUTIONS (3)
A study of the institutions of pre-industrial, industrial, and post-industrial societies. Special emphasis is on theories of social organization, social change, and the exploration of each institution in world societies. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2905 INDEPENDENT STUDY IN SOCIOLOGY (3)
A directed study course in Sociology. The course will be available to both majors and non-majors who wish to investigate a particular problem. The student will make application for the course to the Head of the Behavioral Sciences Department via an instructor with whom he wants to work. Prerequisite to be ascertained by the instructor and the Department Head. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2930 SPECIAL TOPICS: CURRENT ISSUES IN SOCIOLOGY (3)
Course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. Topics will be identified by the SYG2930 course title published in the course schedules for each term the course is offered. Special Topics credit hours are not automatically transferable. Transfer credit is the prerogative of the receiving institution. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2940 SOCIOLOGY FIELD SCHOOL (1)
This course is designed to provide an on-scene study of sociological topics from the various perspectives provided in a field school setting. Laboratory research and observational techniques are used in providing the learning experiences of this course. Instructor's approval. This course can be used for the AA degree.
Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

SYG2942 SOCIOLOGY FIELD SCHOOL (3)
This course is designed to provide an on-scene study of sociological topics from the various perspectives provided in a field school setting. Laboratory research and observational techniques are used in providing the learning experiences of this course in domestic and foreign social settings. Prerequisite: Instructor approval. This course can be used for the AA degree.
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

TAX2000 INCOME TAX I (3)
This course covers principles of federal income taxation applicable to individuals. The course is designed for students to acquire the basic knowledge necessary in the preparation of individual tax returns. Sample tax returns will be prepared. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

TAX2010 INCOME TAX II (3)
This course is a continuation of TAX2000 with emphasis on income tax laws applicable to partnerships and corporations. A brief survey of estate and gift taxes will be undertaken. Sample tax returns will be prepared. Prerequisite: TAX2000
This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

TED0001 SUMMER TEACHER CADET PROGRAM (0)
This no-fee, non-credit course is designed for high school students who have a desire to be future teachers in Broward schools. Students will experience the college classroom with a variety of activities to inspire them to become outstanding future teachers and learners. Topics of interest will include: diversity, technology integration, learning styles, and school administration and leadership. Activities will include: meeting college professors, campus tours, and a field trip to the BC Tigertail Center. Information about a Variety of majors in education and financial aid will also be provided.
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=0.00

THE2000 THEATRE APPRECIATION (3)
A course designed to acquaint the student with the elements of theatre and how they combine and interact to create the live theatre experience. Lecture and discussion will investigate the nature and art of theatre, while the viewing of video taped and live stage plays will furnish examples of the various dramatic genres, including tragedy, comedy and musical theatre. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=96 Oth Hrs=0 Fees=0.00

THE2051L CHILDREN'S THEATRE PRODUCTION (3)
Participation in the rehearsal and production of the Children's Theatre Program, which continues during the entire term. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

THE2052L CHILDREN'S THEATRE TECHNICAL (3)
Participation in the technical aspects of the Children's Technical Theatre Program. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

THE2300 SURVEY OF DRAMATIC LITERATURE (3)
A study of dramatic literature from the time of the early Greek dramatists to recent dramatists in light of the historic, socio-political milieu of the era that promulgates the particular genre. Plays will be analyzed from a dramaturgical point of view. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=96 Oth Hrs=0 Fees=0.00

TPA1290 TECHNICAL THEATRE LAB I (1)
Participation as technician in the dramatic and musical productions of the college. May be repeated four times for credit. Instructor's permission required for enrollment. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPA1291 TECHNICAL THEATRE LAB II (2)
Participation as technician in the Dramatic and Musical productions of the college. May be repeated four times for credit. Instructor's permission required for enrollment. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

TPA1292 TECHNICAL THEATRE LAB III (3)
Participation as technician in the Dramatic and Musical productions of the college. May be repeated four times for credit. Instructor's permission required for enrollment. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

TPA2000C INTRODUCTION TO THEATRE DESIGN (3)
An introduction to the techniques, practices, and processes in scenic, lighting, costume, and sound design. The course includes a period styles overview, script analysis, and a survey of appropriate paperwork required by each area. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPA2060 SET DESIGN (3)
Research and execution of the visual environment of the play. Assigned projects will include pencil and ink drawings, layouts, ground plans, renderings, and models. Prerequisite: TPA2200

This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPA2192L SUMMERTHEATRE/TECHNICAL PRODUCTION (3)
Participation in the technical aspects of a theatrical production including but not limited to stagecraft, stage management, properties, costuming, wardrobe, lighting, sound, stage makeup and house management. Corequisite: TPP2190L

This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

TPA2200 STAGECRAFT (3)
An investigation of the principles of stagecraft, lighting, props and set construction. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPA2220 INTRODUCTION TO STAGE LIGHTING (3)
An historical background of theatrical lighting technology and design and an introduction to the tools and concepts used by the lighting technician from primitive equipment to the modern computer system. Prerequisite: TPA2200

This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPA2248 MAKEUP FOR STAGE AND TELEVISION (3)
The theoretical and practical application of all types of straight and character make-up for the stage and television. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP1190L PERFORMANCE LAB I (1)
Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production, students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP1191L PERFORMANCE LAB II (2)
Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production,
students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=64 Oth Hrs=0 Fees=0.00

TPP192L PERFORMANCE LAB III

Upon successful completion of this course, students will be able to analyze and create a dramatic character on stage in a theatrical production of the college. For each production, students will learn to understand the genre of the play and adopt appropriate acting styles and techniques. They will learn how to uncover clues in the script which will reveal character objectives and tactics. Additionally, students will create characters through analysis, improvisation, and the development of psychophysical actions grounded in the given circumstances of the play. This information will guide the student actor to make distinct choices regarding the physical and vocal qualities of each character being portrayed. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

TPP210 ACTING I

Study and development of acting skills concentrating on the student's ability to believe and exist in imaginary circumstances as if they were real, and to transmit those beliefs clearly and artfully to an audience. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP211 ACTING II

Building on the foundations established in Acting I, Acting II focuses on a close examination of the dramatic text which becomes the basis for character development and scene work. Students will analyze and perform two scenes during the term. Additional experience is also gained with the monologue by analyzing and performing two longer speeches.

Prerequisite: TPP2110

This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2190L REHEARSAL AND PERFORMANCE I

Participation in the audition, rehearsal and performance process of a theatrical stage production.

Corequisite: TPA2192L

This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=96 Oth Hrs=0 Fees=0.00

TPP2260 PERFORMANCE IN FILM

Introduction to the various approaches to acting on film and television. A number of genres will be examined including film acting, commercial acting, and various styles of television acting. Students will also study the evolving styles of film acting throughout the history of the medium.

Prerequisite: TPP2110

This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2300C DIRECTING

An academic study and practical application of the art and craft of directing a play. An investigation of the components of the theatre experience as they relate to the work of the director. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Prerequisite: TPP2111

Pre or Corequisite: TPA2200 TPP2500C TPP2700C

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2500C MOVEMENT FOR THE ACTOR

An academic study and practical application of body movement technique for the actor. Students will extend their own range of movement through vocal and physical effort training and free themselves from any personal movement habits. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2531 STAGE COMBAT

Armed and unarmed combat techniques for the stage. This course can be used for the AA degree.

Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2700C INTRO TO VOICE

An academic study and practical application of the efficient and effective use of the speaking voice, particularly in meeting the special demands of acting for the stage. Following a thorough introduction to the International Phonetic Alphabet students will learn the theories and principles of good voice and articulation of general American speech. The theories and principles of the course will be applied in written assignments, oral performances before the class, and through vocal exercises done in class, the learning resources language laboratory, and at home. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TPP2701C VOICE AND ARTICULATION II

Application of techniques studied in Intro to Voice, with emphasis on the study of vocal posture and the International Phonetic Alphabet. Students will continue to improve articulation and pronunciation, as they learn to apply differentiation of sounds and adjustment of vocal posture to achieve a neutral American Dialect. Learned skills will then be utilized to master three popular stage dialects. The theories and principles of the course will be applied in written assignments, oral performances before the class, and through vocal exercises done in class, the learning resources laboratory, and at home.

Prerequisite: TPP2700C

Students must earn a minimum grade of “C” to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=32 Lab Hrs=32 Oth Hrs=0 Fees=0.00

TRA1010 INTRODUCTION TO TRANSPORTATION & LOGISTICS

This course deals with the role of logistics in the economy and the organization. Topics explored are customer service,
logistics information systems, inventory management, material management and supply chain management. The objective is to explore the full scope of the transportation plant and its services as a necessary preparation to efficient use of the transportation system.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**TRA1154 SUPPLY CHAIN MANAGEMENT**

This course presents an integrated approach to the management of activities involved in moving goods and services from suppliers to customers. The course will focus on what employees and managers must do to ensure an effective supply chain exists in their organization. Students will learn about SCM functions, warehousing, purchasing and inventory, e-commerce, information flow and customer service.

Prerequisite: TRA1010
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**TRA1156 OPERATIONS MANAGEMENT FOR TRANSPORTATION**

This course covers the skills necessary for a supervisory role in logistics. It includes roles and responsibilities in managing different types of operations and general managerial functions and skills. Topics include the design and management of production operations, productivity, strategy, capacity planning, location, layout, resource management, just-in-time systems, and materials requirement planning and project management.

Prerequisite: TRA1010
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**TRA2131 PURCHASING FOR LOGISTICS MANAGERS**

This course presents current and thorough coverage in the critical area of purchasing for logistics managers. Students gain insight and knowledge into the strategies, processes, and practices of purchasing, including demands placed on purchasing managers, the ethical, contractual and legal issues faced by purchasing professionals, and the impact of purchasing and supply chain management on the competitive success and profitability of the organization.

Prerequisite: TRA1010
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**TRA2930 SEMINAR IN GLOBAL TRADE & LOGISTICS**

This course focuses on current and emerging issues in global trade and logistics. Its format and topic will vary, but will include a full day or a half day seminar conducted by one or more industry experts who will address specific global trade and logistic topics such as, but not limited to: Functions comprising logistics; How logistics affects customer service, corporate performance and competitive advantage; Key logistics processes of supply chain management; Effective strategies for logistics managers; Key differences between domestic and international logistics; Developing strategies to effectively manage logistics; Recognizing the role played by key logistics intermediaries that facilitate global trade.

Lec Hrs=16 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**TSL3080 ESOL ISSUES AND STRATEGIES I**

This course is designed to introduce the underlying issues, theories and practices of the teaching of ESOL (English for Speakers of Other Languages). The goal of this course is to develop the foundations of knowledge necessary to prepare educational professionals to understand the concepts upon which second language acquisition and instruction are based. Course emphasizes the Florida/LULAC Consent Degree and language/literacy development. 10 school-based hours

Pr or Corequisite: EDF1005 EDF2085 EME2040 RED3342
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=30.25

**TSL4081 ESOL ISSUES AND STRATEGIES II**

This course is designed to build on the foundation course in TESOL for students in integrated pre-service teacher education programs. The goal of this course is to link the theory and practice for effective teaching of ESOL students. The course will focus primarily on methods, curriculum and assessment of ESOL students in the areas of language and content areas. Effective strategies regarding reading instruction for ELL students will be emphasized.

**WOH2040 WORLD HISTORY IN THE 20TH CENTURY**

An examination of the major political, social, economic, intellectual, diplomatic, and military developments and events of the 20th century. A chronological approach to several major themes which frame the history of the contemporary world; the decline of European hegemony in the course of two major wars and a world depression; the concomitant challenge to western supremacy from Asia; a half-century of superpower hostility following the outbreak of the Cold War; and the transformation of global politics in light of the collapse of the U.S.S.R. and the end of the Cold War. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.

Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00

**ZOO4713L COMPARATIVE VERTEBRATE MORPHOLOGY AND PHYSIOLOGY LAB**

The course is the accompanying laboratory course to PCB4273. The 3 hours of laboratory per week complements the lecture topics which include evolutionary relationships among the vertebrate groups, and a comparison of major physiological systems; nerve, muscle, respiration, circulation, osmoregulation, excretion, temperature regulation and energy metabolism.

Pre or Corequisite: ZOO4713
Lec Hrs=0 Lab Hrs=48 Oth Hrs=0 Fees=42.00

**ZOO2010 GENERAL ZOOLOGY**

Basic course pertaining to the development, anatomy, physiology, genetics, ecology and evolutionary relationships of the animal kingdom. Upon successful completion of this course, the students will be able to comprehend the basic zoological principles and processes of phylogeny, physiology, genetics and ecology.

Pre or Corequisite: ZOO2010L. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule. This course can be used for the AA degree.
ZOO2010L GENERAL ZOOLOGY LABORATORY (1)
Upon successful completion of this course, the students should be able to demonstrate a knowledge of the animal kingdom through prescribed activities that focus on the morphology, anatomy, and physiology of selected representative specimens. Laboratory experiments and activities to accompany ZOO2010. Dissection of animals is a component of this course.
Pre or Corequisite: ZOO2010. This course can be used for the AA degree.
Lec Hrs=0 Lab Hrs=32 Oth Hrs=0 Fees=38.00

ZOO4713 COMPARATIVE VERTEBRATE ANATOMY & PHYSIOLOGY (3)
This course is designed to familiarize the student with morphological and anatomical features of vertebrates from a comparative evolutionary perspective. The course starts with an introduction to the comparative method, including evolutionary concepts such as homology and homoplasy. The underlying biology of tissue-organ systems and evolutionary perspectives on the origin, maintenance, and diversification of form among the vertebrates will be discussed. The remainder of the course will be an overview of major organ systems, interspersed with discussion of particular vertebrate phenomenon that highlight the development, function and/or evolution of these organ systems.
Pre or Corequisite: ZOO4713L
Lec Hrs=48 Lab Hrs=0 Oth Hrs=0 Fees=0.00
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Burke, Claudette D., District Director, Employee Benefits & Wellness; M.S., Human Resources Management, Nova Southeastern University, B.B.A., Management, Florida Atlantic University

Burks, Zachary, Assistant Professor, English; M.A. and B.A., English, University of Alabama in Huntsville; A.S., Martin Methodist College

Burroughs, Lynda, Associate Professor, Nursing; Ed.D., Higher Education, Florida International University; M.A., Nursing, RN, New York University; B.S.N., Nursing, RN, Adelphi University; Registered Nurse

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Charlotteaux, Dominique, Associate Professor, Education; Ph.D., Education, George Mason University; M.Ed., Education, Louisiana State University Shreveport; M.A. and B.A., Foreign Language and Literature (English), University de Reims (France)

Chica, Jimmy J., Assistant Professor, Modern Foreign Language; Ph.D., Spanish, University of California-Irvine; M.A., Spanish, Pennsylvania State University; B.A., Spanish, Florida International University; A.A., Spanish, Miami-Dade Community College

Chopra, Kobitta, Student Affairs Specialist / Counselor, Counseling and Advisement; M.B.A., Business Administration, Valdosta State College; M.S., Counselor Education, Florida International University

Choudhury, Laura P., Senior Professor, Physical Sciences; Ph.D., Chemistry, Emory University; B.S., Oceanography, Florida Institute of Technology

Christ, Jeanne G., Assistant Professor, English; M.A., English Education and B.B.A., Management, University of Central Florida; A.A., Liberal Arts, University of Central Florida

Chungschickle Genevieve, Professor, Biological Sciences; Ed.D., Higher Education, Florida International University; M.S., Nutrition, Columbia University Central Office; B.S., Food Science Management, Pratt Institute

Ciardulli, Lisa M., District Director, E-Learning, MPA, Public Administration, Georgia State University; M.Ed., Counselor Education, Florida Atlantic University; B.A., English, Florida Atlantic University

Clink, Wendy, Associate Vice President, Institutional Research, Planning & Effectiveness, B.S., Information Studies, Florida State University; A.A. Business Administration, Broward Community College

Coadley, Oyinka M., Assistant Professor, Accounting M.B.A., Accounting, Florida Atlantic University; B.S., Accounting, Florida A & M University; Certified Public Accountant

Coanda, Mariana C., Assistant Professor, Mathematics; M.A. and B.S., Mathematics, University of Bucharest
Cohen, Elaine F., Associate Dean, Institute of Public Safety, J.D., Law, University of Florida; B.A., History, Duke University
Cohen, Neil A., Associate Vice President, Student Affairs/Student Life, Student Life; M.A., Communications, University of Southern California; B.A., Communications, California State University
Comarcho, Carole D., Assistant Professor, Student Life Skills Development; Ph.D., Education Leadership, Florida Atlantic University, M.Ed., Education Leadership, Florida Atlantic University
Conrad, Jacqueline R., Assistant Professor, Biological Sciences; D.V. Medicine, Veterinary Science and B.S., Biological Sciences, Michigan State University
Cookingham, Vickie S., Assistant Professor, Computer Science; M.S., Computer Science Education, Nova Southeastern University; B.S., Computer Science, Florida Atlantic University
Cooper, Jeffrey S., Assistant Professor, Mathematics; M.S., Applied Mathematics, Michigan State University; B.S., Physics, Western Michigan University
Corseri, Richard A., Professor, History/Political Science; Ed.D., Curriculum and Instruction and M.A., History, Florida Atlantic University; B.A., History, University of Miami
Cowan, Sophia, Group Manager of Systems Services, FCCSC Group Manager Systems.
Cowo, Ana, Assistant Professor, English; M.A., English, East Carolina University
Cox, Sherry A., Assistant Professor, Computer Science; M.S., Computer Science Education, Nova Southeastern University
Culp, Charles L., Instructor, Automotive Technology, A.A., Liberal Arts, Broward College; Automotive Service Excel
Culpepper, Patricia, Student Affairs Specialist/Counselor, Counseling & Advisement; M.A., Communication and B.A., English, Florida Atlantic University; A.A., Broward College
Czarneck, Janine E., Associate Dean, Institute Of Public Safety, Police/Corrections, M.S., Criminal Justice, Long Island University C.W. Post; B.A., Criminal Justice, Long Island University C.W. Post; A.S., Criminal Justice, Suny College Of Technology At Farmingdale; Criminal Justice Standards & Training, Fl. Dept Of Law Enforcement
Czubkowski, Deborah A., Construction Project Admin I, M.A., Management, Devry University, B.A., Technology, University of North Florida
Dabbas, Mohammad A., Assistant Professor, Electronics Engineering Technology; M.E., Electrical Engineering, Florida Institute of Technology; B.S., Electrical Engineering, Florida Atlantic University; B.S., Physics, University of Jordan
Daniel, Yanick, Professor, English Second Language; M.A., TESOL and B.A., French, City University of New York
Daniels, Marilyn, Assistant Professor, English; M.A. and B.A., English, University of Tennessee-Knoxville
Davis, Arman Q., Assistant Professor, Nursing; Ph.D., Nursing, Barry University; M.S.N., Nursing Education, Barry University; B.A., Nursing, Adelphi University
Davis, Damon, Student Affairs Specialist/Counselor, Student Success; M.Ed., Education Leadership, B.F.LS., Health Administration and B.A., Social Science, Florida Atlantic University
De La Guardia-Piz, Adelaida M., Assistant Professor, Medical Assisting; B.S., Management, University of Phoenix; A.S., Medical Assisting, Broward College; Medical Assistant
Decosmo, Robert, Director, Health, Safety & Risk Management; B.S., Natural Science / Biology, Dowling College
Degraff, Karl, Assistant Professor, Electronics Engineering Technology; M.S., Systems Engineering, Polytechnic University; B.S.E.E., Electrical Engineering, City University of New York
Deleo, Frank A., Assistant Professor, English Second Language; M.S., ESL and B.A., Spanish, Georgia State University; A.A., Liberal Arts, Miami-Dade Community College
Delgado, Awilda M., Interim Associate Dean, Mathematics; M.S., Mathematical Sciences, University of Central Florida; B.S., Mathematics, University of Central Florida
Denis, Alex, Vice President, Operations; M.B.A., Nova Southeastern University; B.A., Psychology, Florida International University; A.A., Liberal Arts, Broward College
Desbrow, Susan M., Coordinator, Enrollment Services; B.A., English, University of Florida; A.A., Santa Fe Community College
Deutschman, Robert, Director, Intercollegiate Athletics; B.S., Secondary Education, Nova Southeastern
Devaney, Sean P., Manager, Campus Facilities, Physical Plant
Dhanasar, Rajendra P., Assistant Professor, Computer Science; M.B.A., Information Systems, Pace University-White Plains
Diaz, Mary F., Assistant Professor, English Second Language; M.A., Education and B.A., French, University of Michigan Ann Arbor
Dibble, Deborah M., Assistant Professor, Biological Sciences; M.S., Biology, Eastern Michigan University; B.S., Biology, Central Michigan University
Diehl, Teresa M., Assistant Professor, Visual Art; M.F.A., Photography, San Francisco Art Institute; B.F.A., Art, Florida International University; A.A., Visual Arts, Miami-Dade Community College
Digiramo, Jessica A., Assistant Professor, Biological Science, M.S., University of Mississippi Medical; Pharmaceutical Science; B.S., Chemistry, Florida International University; A.A., Biology, Broward College
Ditello, Rocco, Professor, English; M.A. and B.A., English, University of Wisconsin-Milwaukee
Dominguez, Ibis, Assistant Professor, Activities-Wellness, M.S., Sports Management, United States Sports Academy; B.S., Florida International University

Dones, Bonnie, Associate Dean, Nursing Central; M.S.N., Barry University; B.S.N., Nursing, Florida State University; A.S., Nursing, Broward College 🦋; Registered Nurse

Donovan, Jacqueline A., Associate Dean, Business Administration, Associate and Baccalaureate Programs; M.S., Research Methods, University Of Miami; M.B.A., Marketing and Management, University Of Miami; B.B.A., Human Resources Management, Baruch College

Drotzer, Ellyn, Associate Vice President, Resource Development & Planning, College Grant Development; M.S.W., Social Work, Florida International University; B.A., Political Science, University of Florida; A.A., Psychology, Broward College 🦋

Duffissjogren, Osmond A., Senior Professor, English Second Language; M.A., Linguistics, Northeastern Illinois University; B.S.C., Business Administration, Depaul University; B.Ed., English As A Foreign Language, University of Panama; Certificate of Linguistic Studies, Florida International University

Dugan, Marie D., Associate Dean, Science / Wellness; M.S.T., Biological Sciences, Florida Atlantic University; B.S., Zoology, University of Rhode Island

Dunn, Raymond, Assistant Professor, Reading; Ed.D., Administration and Supervision, Nova Southeastern University; M.Ed., Administration and Supervision, University of Miami; B.S., Elementary Education, Florida A and M University

Dunn, Russell F., Assistant Professor, Hospitality / Travel / Restaurant Management; M.S., Taxation, Florida International University; B.B.A., Accounting, Hofstra University; CPA

Dutka, Andrew J., Librarian, University / College Library; M.L.S., Library Science, SUNY at Buffalo; B.A., Journalism, SUNY College at Buffalo

Echenique, Marcial L., Assistant Professor, Mathematics; Ph.D., Curriculum & Instruction, Florida Atlantic University; M.S., Mathematics, University of Texas at Arlington; M.B.A., Business Administration, University of Georgia; B.S., Mathematics, Auburn University

Edelstein, Susan, Associate Dean, Academic Affairs, Physical Therapy Assistant; M.S., Education, California State University Eastbay; B.S., Physical Therapy, SUNY at Stony Brook; A.S., Physical Therapist Assistant, Suffolk County Community College; Physical Therapist

Edsall, Denese K., Associate Vice President, Human Resources & Equity; M.S., Conflict Analysis / Resolution, Nova Southeastern University; B.A., Biology, Washington University

Elam, Jerry W., Senior Professor, Journalism, M.A., Speech / Communications and B.A., Journalism, Western Kentucky University; A.A., Journalism, University of Kentucky-Somerset

Ellingham, Patrick M., Senior Professor, English; Ed.D., Higher Education, Nova Southeastern University; M.A., Humanities and B.A., English, State University of New York

Elusta, Abdalla A., Assistant Professor, Mathematics; M.S., Applied Mathematics and B.S., Mathematics, Wright State University

English, Sheila Y., Instructor, Air Traffic Control; B.S., Industrial Technology, Florida International University; A.S., Air Traffic Control, Broward College 🦋

Erazo, Edward J., Associate Dean, Academic affairs, Modern Foreign Language / Journalism / RTV / Speech; M.L.S., Library Science, University of Arizona; M.A. and B.A., Spanish, University of Texas at El Paso

Eugene, Betty Assistant Professor Speech; M.A., Communications, Barry University

Evans, James, Dean, Student Affairs; L.L.M., Intercultural Human Rights, St. Thomas University; B.P.A., Public Administration, Florida International University

Faber, Carol M., Director, Wings Project, Displaced Homemakers

Farach, Lisa, Assistant Professor, Cardio-respiratory; A.S., Respiratory Therapy, Broward College 🦋; Registered Respiratory Therapy, State Certified

Faris, Brian R., Assistant Professor, Computer Science-Industrial M.S., Telecommunications & Networking, Florida International University; B.S., Professional Management, Nova Southeastern University; A.S., Computer Science, Broward Community College 🦋

Feaster, Scott V., Assistant Professor, English, Ph.D., Comparative Arts, Ohio University; M.A., English, University of Miami; B.A., English, University of the South

Fenick, Michael A., Assistant Professor, Computer Science; M.I.T., Information Technology, American Intercontinental University; B.S., Business Administration, Nova Southeastern University

Ferenchak, Gregory J., Dean, Health Science; Ed.D. Higher Education, Florida International University; M.S., Adult Education, Old Dominion University; B.S., Biology, Greensboro College; American Registry Radiologic Technologist; General Radiographer & Nuclear Medical Tech, Radiological Technologist

Fiducia, Frederick A., Assistant Professor, Computer Science; M.C.S., Computer Science, Stevens Institute of Technology; B.A., Psychology, Cornell University

Fields, Cheryl L., Construction Project Admin II, Facilities Planning Construction, M.S., Construction Management; B.S., Construction Management, Florida International University; A.S., Building Construction, Miami Dade College; A.A., Miami Dade College

Fields, Linda, Assistant Professor, English; M.S., Education, CUNY Queens College; M.A., Linguistics and B.A., English and Social Studies, University of The West Indies

Flores Jaime R., Assistant Professor, English; M.A., International Relations, CUNY City College; M.A., English, CUNY City College
Foley, Lizette H., Assistant Professor, Mathematics; M.Ed., Mathematics Education, University of Central Florida; B.S., Mathematics, University of Miami

Folleco, Italia K., Student Affairs Specialist / Counselor, Student Success; M.A., Counseling Education, Kean University; B.A., Psychology, Bloomfield College

Fontan, Ernest H., Instructor, Fire Science Technology; M.P.A., Florida Gulf Coast University; B.S., Industrial Technology and B.S., Fire Science, Florida International University; State Certified

Forgie, Kirsty, Director, BC Museum Collection B.S.E., Electronic and Electrical Engineering, Robert Gordon University

Forrest, Donat W., Associate Dean, Electronics Engineering Technology; M.S., Computer Science, Florida State University; B.S., Computer Information System, Temple University

Foster, John F., Professor, Visual Art; M.F.A., Art, Southern Illinois University; B.F.A., Florida Atlantic University

Fox, Lewis E., Assistant Professor, Physical Science; Ph.D., Marine Studies and M.Ed., Natural Sciences, University of Delaware

Francis, Kaye T., Associate Dean, Student Affairs; M.A., Organizational Management, University of Phoenix; B.S., Management, University of Phoenix.

Francois, Blodine, Librarian, M.L.S., Information & Library Sciences, The State University of New York; B.A., Criminal Justice, University of North Florida

Frank, Mitchell H., Assistant Professor, Police / Corrections; M.A., Management, University of Phoenix

Fry, Jodie, Professor, Mathematics; M.S., Math Education, Nova Southeastern University; B.S., Pure Mathematics, Florida Atlantic University; A.A., Science, Broward College

Fulwood, Mitzi J., Assistant Professor, Mathematics; Ed.D., Higher and Adult Education, Arizona State University; M.A.T., Mathematics, Colorado State University; B.A., Elementary Education, Arizona State University

Fulwood, Reginald W., Assistant Professor, Mathematics; M.S., Physics, Florida State University; B.S., Physics, Florida State University

Fusco, Robert, Assistant Professor, Mathematics; M.S.T. and B.A., Mathematics, Florida Atlantic University; A.A., Mathematics, Broward College

Gainey Labrada, Shirley, Director, Supplier Diversity, Supplier Diversity, A.A., Miami-Dade Community College

Galkowski, Piotr, Senior Professor, Mathematics; M.A., Mathematics, Bowling Green State University

Gamble, Kayla N., Assistant Professor, Nursing-South, M.S.N., Nursing, Florida International University; B.S.N., Tuskegee University; BLS Healthcare Provider, Registered Nurse

Gao, Yaping, District Director, Instructional Technology; Ed.D., Curriculum and Instruction; Baylor University

Garcia, Eileen L., Associate Dean, Science/Wellness; Ed.D. Higher Education, Florida International University; M.S. and B.S., Biological Sciences, Florida Atlantic University; A.A., Arts and Sciences, Broward College

Garrido, Thomas, Instructor, Aviation Operations; A.S., Aviation Maintenance, Broward College

Gaskins, Rosa M., Librarian, Library; M.S., Library and Information Studies, Florida State University; B.S., Mathematics, Florida Memorial College

Genus, Jennifer, Assistant Professor, Nursing; Ph.D., Philosophy, Barry University; M.S.N, Barry University; B.S.N., Nursing, Barry University; Advanced Registered Nurse Practitioner

Geraci, Sanford A., Assistant Professor, Mathematics; Ed.D George Mason University; M.S.T. and B.S., Mathematics, Florida Atlantic University; A.A., Mathematics, Broward College

Gibbs, Antonnette M., Assistant Professor, Mathematics; M.A., Mathematics, University of Miami; B.S., Mathematics / Economics, University of Missouri

Gilley, Holley B., Professor, Modern Foreign Language; M.A., Spanish, Florida State University; B.A., Spanish, University of Central Florida

Gilson, Casey, Dean, Library / Learning Resources; M.A., English, Temple University; B.A., English, Temple University

Giovannillo, Michael, Associate Professor, Radiography; Ph.D., Philosophy Capella University; M.S. and B.S., Health Occupations Education, Florida International University; A.S., Radiology Technology, Miami-Dade Community College; American Registry Radiologic Technology; Basic Life Support Healthcare Provider; Radiologic Technologists

Glazer, Ellen F., Associate Professor, Computer Science; Ph.D., Computer Technology in Education, Nova Southeastern University; M.A., Computer Resources / Information Management, Webster University; B.S., Career Aviation, Salem-Teikyo University; A.B., Information Systems, Trident Technical College

Godby, Steven W., Assistant Professor, History / Political Sciences; M.A., Religion and Humanities and B.A., Philosophy, Florida State University

Gonzalez, Ana, Assistant Professor, Wellness; M.S., Public Health, Florida International University

Gonzalez, Francisco, Associate Dean, Student Affairs North; M.S., International Business and B.S., International Business; Florida Atlantic University.

Gonzalez, Maria T., Assistant Professor, Computer Science-Industrial, M.S., Information & Computer Science, Georgia Institute of Technology

Goodrich, David, Assistant Professor, Business Administration; J.D., Law, Stetson University; B.S., Biology, Purdue University
Govin, Ralph, Instructor, Emergency Medical Technology
B.A., Spanish, Florida Atlantic University; A.S., Fire Science, Broward College; M.A., Advanced Cardiac Life Support; American Heart Association; Basic Life Support; Emergency Medical Services; Basic Life Support Healthcare Provider

Gray, June L., Assistant Professor Speech; M.A., Physical Education, University of Tennessee-Knoxville; B.S., Physical Education, Eastern Kentucky University

Graziose, Cheryl, Director Professional Development & Training; M.S., Human Resources Management, Palm Beach Atlantic University

Griffin, Mark, Manager, Special Projects, B.S., Information Management Systems, Florida State University; A.A., General Education, Broward College

Griffin, Timothy M., Professor, Aviation Operations; M.S., Aeronautical Science and B.S., Professional Aeronautics, Embry-Riddle Aeronautical University; A.S., Aviation Maintenance, Broward College; Airframe Powerplant

Griffith, David R., Assistant Professor, Aviation Operations; B.S., Aeronautical Studies, Embry-Riddle Aeronautical University; Airframe Powerplant

Grisales, Francisco C., Assistant Professor, Modern Foreign Language; M.A., Spanish, University of Louisville

Grody, Susan J., Assistant Professor, Mathematics; M.A. and B.S., Mathematics, Marshall University

Grow, Lynn M., Senior Professor, English; Ph.D., English, M.A., English, M.A., Philosophy and B.A., English, University of Southern California

Guerra, Jorge, Dean, Transportation; M.S., Education Leadership, Florida International University; B.S., Professional Aeronautics, Embry-Riddle Aeronautical University

Guess, Tameara A., Student Affairs Specialist / Counselor, Counseling and Advisement; M.S., Mental Health Counseling, Nova Southeastern University; B.A., Psychology, Florida Southern College

Guild, Jeffrey K., Assistant Professor, Mathematics; M.S., Mathematics, Florida Atlantic University; B.A., Computer Science and Philosophy / Religion, Flagler College

Hackett, John F., Assistant Professor, Institute of Public Safety; M.S., Criminal Justice, Florida International University; B.S., Criminal Justice, Saint Johns University New York; A.A.S., Mortuary Science, Farmingdale University

Hainsworth, Jason, Assistant Professor, Music; M.M., Jazz Studies, Florida State University; B.M., Classical Performance, William Paterson College

Hall, David S., Professor, Radiography; M.S., Health Science Education, State University of New York; B.S., Radiology Technology, Medical College of Georgia; A.S., Radiology Technology, Broome Community College; American Registry Radiologic Technology

Hamilton, Michael C., Construction Projects Administrator II; M.A.A., Architecture, Ohio State University; B.A., Art, Loras College; B.A. University of Northern Iowa

Hammer, Kelli J., Assistant Professor, Mathematics; M.Ed., Math Education, Nova Southeastern University; B.A., Mathematics, Florida Atlantic University; A.A., Secondary Education, Broward College

Hargrett, Eunice, Assistant Professor, English; M.A. and B.A., English, University of North Carolina; A.A., General Studies, Louisburg College

Harris, Jody A., Assistant Professor, Mathematics; M.Ed. and B.S., Mathematics Education, Florida International University

Harris, Joel D., Assistant Professor, Emergency Medical Technology; Ed.D., Educational Leadership, Florida Atlantic University; M.S., Public Health and B.H.S., Health Administration, Florida International University; A.A., Liberal Arts, Pensacola Junior College; American Heart Association; Basic Life Support; Emergency Medical Services

Harris Smith, Anissa, Assistant Professor, Nursing; M.S.N. and B.S.N., Nursing, Florida International University

Hart, Michael, Senior Professor, Behavioral Science; Ed.D., Education, Nova Southeastern University; M.S., Sociology, Iowa State University; B.S., Sociology, Iowa State University

Harvey, Michael, Assistant Professor, Biological Sciences; Ph.D., Quantitative Biology and M.S., Biology, University of Texas at Arlington; B.S., Biology, Baylor University

Hawkins, Damian A., Student Affairs Specialist / Counselor, Student Success; M.A.T., English, Florida Atlantic University

Hayes, Theresa O., Senior Professor, Office Systems Technology; M.Ed., Business Education, Florida Atlantic University; B.S., Business, College of William and Mary

Hefferin Quianthy, Deborah, Assistant Professor, Speech; M.A., Speech Communications in Education; B.Ed., Speech, Northern Illinois University

Heinrich, Christie L., Assistant Professor, Mathematics; M.S., Vocational Education, M.A. and B.S., Mathematics, Marshall University

Henderson, Donna, Dean, Partnership Centers; M.S., Health / Physical Education and B.S., Physical Education, West Virginia University

Hendricks, Vicki, Professor, English; M.A., English, Florida Atlantic University; M.F.A., Creative Writing, Florida International University; B.Ed., English, Ohio State University

Henn, Edward M., Assistant Professor, Business Administration; Ed.D., Community College Education, Florida International University; M.B.A., Human Resources Management, Florida Institute of Technology; B.A., Music, University of South Florida

Hennessy, David V., Assistant Professor, English; M.A. and B.A., English, University of Miami

Henning, Jacqueline A., Associate Dean, University/College Library; M.L.S., Simmons College; B.A., French, University of Florida
Heppler, Robert, Senior Professor, Speech; Ph.D., Speech, Pennsylvania State University; M.A., English Education and B.S., English Literature, Saint Joseph’s University
Hernandez Muzquiz, Rowena, Assistant Professor, History /Political Science, Ph.D., History, Columbia University City of New York, M.A., History, Old Dominion University
Hernandez, Norda, Assistant Professor, Behavioral Science, Psy.D., Clinical Psychology, Carlos Albizu University, M.S., Psychology, Carlos Albizu University, B.A., Psychology, University of Havana.
Heuer Lourdes, Assistant Professor, English; M.F.A., Writing, Vermont College; B.A., English, Florida International University
Higgins, Jessica T., Assistant Professor, English; M.A., English and B.A., English, Bemidji State University
Hill, Diane, Assistant Professor, Speech; M.A., Speech /Communications, Pennsylvania State University; B.A., Speech /Communications, University of Rhode Island
Hillerbrand, Mary A., Assistant Professor, English Second Language; M.S., TESOL and B.S., Elementary Education, Florida International University
Hills McParland, Maria P., Assistant Professor, Speech, M.A., Communication, Eastern Michigan University; B.A., Travel/Tourism, Eastern Michigan University
Hincapie, Maria E., Student Affairs Specialist /Counselor, Student Success; M.S., ESL, University of Toronto; M.S., Reading, Nova Southeastern University; M.S. TESOL Nova Southeastern University; B.S., Psychology, Texas A and M University; Teaching English as Second Language
Hohan, Karen M., Instructor, Ultrasound; A.S., Diagnostic Sonography, Broward College; American Registry Diagnostic Ms, Radiologic Technologists.
Hoefer, Shirley K., Director, Payroll
Hodge, Teresa M., Assistant Professor, Mathematics; M.S., Applied Mathematics and B.A., Mathematics, Hampton University
Holness, Lloyd, Associate Dean, Respiratory Care and Vision Care; M.S., Human Resources Management, Florida International University; B.A., Mass Communication, University of the West Indies; A.S., Miami-Dade Community College; Optician
Holodak, Maria, Assistant Professor, Physical Therapy Assistant; M.S., Education, California State University; A.S., Physical Therapist Assistant, Broward College; Physical Therapist Assistant
Hopkins, Deborah, Associate Vice President, Career and Technical Education; Ed.D., Higher Education, Nova Southeastern University; M.A., Education and B.S., Business Administration, East Carolina University; A.A., Chowan College
Horne, Cathleen, Associate Dean, Mathematics; M.S.T. and B.S., Mathematics, Florida Atlantic University; A.A., Engineering, Broward College
Hornug, Jonathan A., Construction Project Admin I, Facilities Planning Construction
Housen, Howard R., Assistant Professor, Behavioral Science; M.S.W., Social Work, University of Michigan Ann Arbor; B.A., Social Studies, Spring Arbor College
Houser, Tai L., Assistant Professor, English; Ph.D., Comparative Studies, M.A., English, Florida Atlantic University
Howard, Emily S., Assistant Professor, Physical Sciences; M.S., Physics, Florida International University
Howdyshell, Linda, College Provost & Senior Vice President, Academic Affairs; Ph.D., College & University Administration, Michigan State University; M.A., Interpersonal & Public Communications and B.A., Speech Communications, Central Michigan University
Hoyos, Francisco H., Associate Vice President, Facilities Management; M.S. and B.S., Architectural Technology, Florida International University
Hunter, Audrey S., Assistant Professor, Business Administration; M.B.A. and B.S., Accounting, SUNY at Buffalo; Certified Public Accountant
Ion, Rita, Student Affairs Specialist /Counselor, Student Success; M.S., Reading, Nova Southeastern University; B.A., Elementary Education, Florida Atlantic University; A.A., Liberal Arts, Broward College
Iossi, Laura J., Assistant Professor, Mathematics; Ed. D Higher Education, Florida International University; M.S., Mathematics, Purdue University Main Campus; B.S., Mathematics, Florida Atlantic University
Iroff, Jayson, Interim Vice President, Finance; B.S., Accounting, University of South Florida
Israel Deborah, Assistant Professor, Mathematics; M.S.E., Adolescence Math 7-12, City University of New York; B.B.A., Business Administration, Hofstra University
Izquierdo, Aileen, Vice President, Public Affairs & Marketing; M.M.C., Communication and B.S., Communication, Florida International University
Jackson, Donna K., Dean, Continuing Education /Workplace Development for Health Related Professions and Institute for Economic Development; Ed.D., Higher Education, Florida International University; M.S.N., University of Phoenix; M.A., Education Leadership, Eastern Michigan University; B.S.N., University of Ottawa; Registered Nurse
Jackson, Greta, Coordinator, Enrollment Services; M.S., Higher Education Administration, Florida International University; B.B.A., General Management, Florida Atlantic University; A.A., Liberal Studies, University of Florida
Jackson, Wesley, Assistant Professor, Nursing; Ed.D, A/P Educational Leadership, Florida International University; M.S., Nursing and B.S., Nursing, Florida International University; A.S., Nursing, Broward College; RN
Jadoonanan, Vashista, Assistant Professor, Computer Science; M.S., Computer Science, Nova Southeastern University
Jessamy, Ordine A., Professor, Nursing; M.S.N., RN, Texas Woman’s University; B.S.N., Nursing, RN, Prairie View A and M University; Advance Registered Nurse Practitioner
Johnson, Jan P., Assistant Professor, Art, MFA, Art, University Of Florida
Johnson, Mariah R., Assistant Professor, Theatre; M.F.A., Theatre, Florida Atlantic University; B.F.A., Theatre, University of Florida
Johnson, Nancy S., Assistant Professor, Mathematics; M.S., Mathematics, Florida Atlantic University; B.S., Mathematics, Stetson University
Johnson, Patricia A., Instructor, English; B.A., English, Florida Atlantic University; A.A., Liberal Arts, Broward College
Johnson, Christopher F., Assistant Professor, English; Ph.D. Cultural Studies, M.A., American Studies, Bowling Green State University
Jones, Eugene G. II, Dean, Bachelor of Applied Science, Ph.D., Higher Education Administration, M.Ed., Education Leadership, and B.S., Computer and Information Science, University of Florida
Jones, Joseph E., Senior Professor, Emergency Medical Technology; A.S., General Studies, Community College Allegheny County; Advance Cardiac Life Support; American Heart Association; Emergency Medical Services
Jones, Sheila, Assistant Professor, History/Political Sciences, Ph.D., History, Bowling Green State University; C M.A., History, Bowling Green State University
Joyce, Patricia, Assistant Professor, English; M.A., English Education and B.A., English, Florida State University; A.A., Liberal Arts, Orlando College
Judd, David M., Assistant Professor, Physical Sciences; M.S. and B.S., Physics, Florida Atlantic University; B.A., Philosophy, Covenant College
Justice, Teresa, Dean, Academic Resources and Institutional Technology, Learning Resources; M.S., Learning Technology, Nova Southeastern University; B.F.A., Florida Atlantic University
Kampiziones, Joanne T., Assistant Professor, Music; D.M.A. Keyboard Performance and Peda, University of Miami; M.M. Piano Pedagogy, University of South Carolina; B.A., International Studies, University of South Carolina
Kantis, Jennifer A., Assistant Professor, Nursing; M.S., Nursing and B.S.N., Nursing, RN, Florida Atlantic University; American Heart Association; Basic Life Support; Registered Nurse; Adv Cardiac Life Support; Adv Reg Nurse Practitioner,
Kauffman, John A., Assistant Professor, Art; Ph.D. and M.A., Art History, CUNY Graduate School and University; B.A., History of Art, University of California-Berkeley; A.A., Delta College
Kay, Gary, Assistant Professor, Reading; Ed.D., Education and M.Ed., Reading Education, Florida Atlantic University; B.Ed., Education and B.A., General Studies, The University of Manitoba
Keating, Kevin, Associate Dean, Social / Behavioral Sciences; Ph.D. and M.A., Anthropology, Northwestern University; B.A., Anthropology, Marquette University
Keller, Alfred, Associate Dean, Communication/Speech/Reading/SLS/Modern Foreign Language/Vision Arts/Humanities M.A., Romance Languages and B.A., Economics, University of Missouri-Kansas City
Key, Edward A., Associate Dean, Student Affairs; M.B.A., Business Administration, University of Phoenix
Khan, Ahmed F., Assistant Professor, Biological Sciences; M.S., Microbiology, Northwestern State University; M.S., (pk) U of Karachi; B.S., Zoology, (pk) U of Karachi
Kimmel, Sharry A., Associate Professor, Behavioral Science; Ed.D., Child and Youth Studies, Nova Southeastern University; M.Ed., Secondary Education, University of Miami; B.A., Political Science, University of Florida
Kling, Kathleen, Director, Continuing Education Nurse Spec Training, Cwe Health Ed Supplemental, MSN, RN, Texas Woman's University; B.S.N., RN, University of Cincinnati Central; Adv Registered Nurse Practitioner; Registered Nurse
King, Kisha, Assistant Professor, History / Political Sciences; M.A., History and B.A., Political Science, Florida International University
Kliston, Linda K., Assistant Professor, Computer Science; M.Ed., Education, Florida Atlantic University; B.Ed., Business Education, University of Miami
Knight, Thea., Assistant Professor, Reading; Ed. D., Child and Youth Studies, Nova Southeastern University; M.Ed. CUNY Brooklyn College
Kobrin, Sharon M., Assistant Professor, Mathematics; M.A. Mathematics, Temple University
Kondelik, Deborah A., Associate Professor, Visual & Performing Arts; M.F.A., Theatre, Florida Atlantic University
Koonin, Charlene A., Professor, Reading; M.S., Reading Education, City University of New York; B.S., Education, State University of New York
Koperty, Evelyn B., Professor, Reading; M.S., Elementary Education and B.A., Education, City University of New York
Koppelman, Robert, Senior Professor, English; Ph.D., English, University of Oregon; M.A., English, Claremont Graduate School; B.A., English / Political Studies, Pitzer College
Kull, Pamela F., Associate Dean, Reading / ESL / SLS, Reading; M.A., Reading Education, Glassboro State College; B.A., Education, University of Tampa
Kunz, William, Assistant Professor, Mathematics; M.S., Mathematics Education, Nova Southeastern University; B.A., Accounting, Florida International University
Kurz, Frank, Associate Dean, Student Affairs; M.S., Human Organization Science, Villanova University
Lambert, Suzanne M., Assistant Professor, Multimedia Technology; M.A. and B.A., Business Education, Marshall University
Lansing, James S., Senior Professor, Art; M.F.A., Art, Northern Illinois University; M.A., Art, Northern Illinois University; B.A., Sociology, SUNY at Buffalo

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Broward College
Law, Renee K., Interim Director, Continuing Education/Institute of Economic Development, M.B.A., Business Administration, Florida Atlantic University; B.A., Spanish, Millersville University
Lawrence, Victor B., Librarian; M.S., Library and Information Science, Robert Gordon University; B.A., English, University of California Berkeley
Lawry, Joseph, Assistant Professor, Biological Sciences; M.S., Chemistry, Florida Atlantic University; B.S., Chemistry, Creighton University
Lee Murphy, Karen S., Associate Registrar; MPA, Public Administration, Florida Atlantic University; B.A, Business Administration, Florida International University; A.A, Business Administration, Broward College
Le Grand, Kate, Senior Professor, Office Systems Technology; Ph.D., Computing Technology in Education, Nova Southeastern University; M.Ed., Educational Technology, Barry University; B.B.A., Business, Florida Atlantic University; A.A., Tallahassee Community College
Lebovitz, Alan J., Assistant Professor, Mathematics; M.S.T. and B.S., Mathematics, Florida Atlantic University
Leisek, Catherine M., Assistant Professor, Visual Arts; M.F.A., Art, Bowling Green State University; B.F.A., Fine Arts, University of Windsor; A.A., Fine Arts, Fanshawe College
Leon, Naylet, Assistant Professor, English; M.A., English Literature and B.A., English, Florida International University
Levine, Michelle H., Assistant Professor, Contract and Civil Engineering; M.Ed., Computer Education, Acadia University
Levy, Mitchel, Senior Professor, Mathematics; M.A., Mathematical Statistics, University of Maryland; B.S., Mathematics, SUNY at Albany
Liauw A Pau, Henri K., Assistant Professor, Physical Science, M.S., Geology, University of South Florida.
Lindeblom, Gregory J., Assistant Professor, Business Administration; M.A., Economics, New School University
Liner, Quakish B., Assistant Professor, Reading; M.S., Reading, Barry University; B.A., English, Barry University
Linger, Neil B., Librarian; University / College Library; M.S., Library and Information Studies, Florida State University; B.A., English, Stetson University
Lizzaraga, Emilio J., Assistant Professor, Aviation Operations; B.S., Aviation Maintenance, Embry-Riddle Aeronautical University; Airframe Powerplant
Long, George M., Assistant Professor, Police / Corrections; M.S., Human Resources Management and B.A., Public Administration, Saint Thomas University; Criminal Justice Standards and Training
Lopez, Jose A., Campus Director, Student Life; M.Ed., Curriculum & Instruction and B.A., Psychology, University of South Florida; University of South Florida, A.A., Psychology, Miami Dade College.
Lopgil, Jesus, Assistant Professor, Multimedia Technology; M.A., Educational Community and Technology and B.F.A., Film and Television, New York University
Lorenzo, Felix M., Assistant Professor, Architecture; M.S., Construction Management, Florida International University; B.O.A., Architecture, University of Miami
Loschak, Amy D., Assistant Professor, Mathematics; M.S., Mathematics, Nova Southeastern University; B.S., Mathematics, University of Florida
Loschak, Horacio D., Assistant Professor, Mathematics; M.S., Mathematics, Nova Southeastern University; B.S., Civil Engineering, University of Florida
Lucke, Jonathan, Assistant Professor, Mathematics; M.S., Mathematics, University North Texas; B.A., Mathematics, Saint Edwards University
Luken, Patricia, Assistant Professor, Education; M.A., Education, Xavier University; B.A., Education, Saint Bonaventure University
Lumley, Robert Jr., Assistant Professor, Aviation Operations; M.S., Aeronautical Science and B.S., Professional Aeronautics, Embry-Riddle Aeronautical University; A.S., Vocational Education, Broward College
Lunny, Jennifer L., Assistant Professor, Nursing; M.S.N., Nursing, Nova Southeastern University; B.S.N., Nursing, Vanderbilt University; Adv Cardiac Life Support, Basic Life Support; Registered Nurse
Luscher, Stephen M., Assistant Professor, Speech, M.A. Linguistics, Florida International University
Macia, Jose, Associate Dean, English; Ed.D., Higher Education, Florida International University; M.A. and B.A., English, Barry University
Maddison, Gordon, Associate Professor, English; M.A. and B.A., English, Florida Atlantic University; A.A., English, Broward College
Madison, Stephen S., Campus President, South; Ed.D., Higher Education, Florida International University
Madea, Jeanette C., Senior Professor, Physical Sciences; Ph.D., Higher Education, M.S., Chemistry and B.S., Chemistry, Michigan State University
Manieri, Dennis J., Professor, Mathematics; M.A. and B.A., Mathematics, University of Miami
Mansito, Nicolas, Assistant Professor, English; Ph.D. English Studies, Illinois State University; M.A., English, University of North Florida
Marin, Nilo E., Professor, Biological Sciences; M.S., Physiology, Southern Illinois University; B.S., Biology, University of Michigan Ann Arbor
Markus, Miriam, Assistant Professor, English; M.Ed., English Education, Temple University; B.A., English, Pennsylvania State University
Martel, Henry J., Dean, Academic Affairs; Ed.D., Mathematics, Nova Southeastern University; M.S., Mathematics, Colorado State University; B.S., Mathematics, Florida Southern College
Marshall, Michelle, Assistant Professor, Office Systems Technology; M. Ed. Business Education, Bloomsburg, University of Pennsylvania
Martin, Deborah S., Student Affairs Specialist/Counselor; Ed.D., Community College Education and M.S., Counseling Florida International University; B.A., Social Welfare, Florida Atlantic University

Masforroll, George, District Director, Bookstore Administration; B.A., History, Florida International University; A.A., Education, Broward College

Mason, Gregory, Director, Sustainability; M.S., Environmental Management, Samford University; B.A., Board of Governors, Western Illinois University


Matt, Nicole M., Instructor, Dental Assisting Tech, BAS, Dental Hygiene, Saint Petersburg College; A.S., Dental Hygiene, Broward Community College; Certificate Dental Assisting, Sacs Compliant American Safety & Health Institute Dental Hygienist

Matthews, Angie L., Assistant Professor, Mathematics; M.S., Mathematics, University of Miami; B.A., Mathematics, Florida Atlantic University; A.A., Liberal Arts, Broward College

Mayberry, Mathew S., Assistant Professor, Behavioral Science; M.A., Philosophy, University of South Carolina; B.A., Philosophy, Washington and Lee University

McCawley, Fredrick J., Assistant Professor, Graphic Design Technology; M.A., Photography, Barry University; B.A., Political Science, University of Florida

McClinton, Martin, District Director, Academic Affairs, Curriculum; Ph.D., Philosophy and B.S. Chemistry, York University

McDermott, Laura A., Assistant Professor, English; M.F.A Creative Writing, Florida International University

McGregor, Debbie V., Associate Professor, Nursing; Ed.D., Higher Education, Florida International University; M.S.N., Nursing Education and B.S.N., Nursing, Barry University; Registered Nurse; State Certified

McKee, Minina, Assistant Professor, Vision Care; M.S., Education, Nova Southeastern University; B.A., Sociology, Florida Atlantic University; A.S., Optometry, Miami Dade College; A.A., Education, Broward College

Memari, Behnoush, Interim Associate Dean, Science/Wellness; Ph.D., and M.S., Chemistry, Florida International University

Mendez, Elizabeth M., Associate Vice President, Budget; M.B.A., Business Administration, Nova Southeastern University; B.A., Management, University of South Florida

Mendonca, Luciene, Assistant Professor, Nursing; Ph D, Nursing, Barry University; M.S., Nursing, Florida Atlantic University; B.S., Nursing, Florida International University; Registered Nurse

Menendez, Miguel M., Dean, University and College Library; M.P.A., Public Administration, Florida International University; M.L.S., Library and Information Studies, Florida State University; B.S., Social Science, University of Tennessee; A.A., Social Studies, Miami-Dade College

Michaels, Carole A., Assistant Professor, Reading; M.A., TESOL, CUNY Hunter College; B.A., Spanish, Florida State University

Millender, Angela N., Vice President, Student Affairs & Enrollment Services; M.S., Management and Development of Human Resources, National-Louis University; B.S., Business Education, Chicago State University

Miller, William S., Associate Dean, Visual and Performing Arts; M.F.A., Art, University of Florida.

Minassian, Michael G., Professor, English; M.A., English, California State University; B.A., Political Science, Fairleigh Dickinson University

Minervini, William J., Associate Dean, Computer Science / Engineering; M.A., Music, Columbia University; M.S., Computer Science, Fairleigh Dickinson University; B.A., Music, Columbia University

Modrich, Karen E., Student Affairs Specialist / Counselor, Counseling and Advisement; M.A., Psychology, Chapman University; B.A., Anthropology, California State University Fresno; A.A., Modesto Junior College

Moeschl, Thomas P., Senior Professor, Behavioral Science; Ph.D., Psychology, Virginia Commonwealth University; M.A., Psychology, College of William and Mary; B.A., Psychology, Jacksonville University

Montesarchio, Cathileen E., Assistant Professor, Accounting; Ph.D., Global Leadership, Lynn University; M.Acc, and B.S., Accounting, Nova Southeastern University; Certified Public Accountant

Moore, David D., Associate Vice President, International Education Administration; Ph.D., Interdisciplinary Studies and Higher Education Administration, and M.A., History, University of South Florida; B.A., History Education, Clearwater Christian College

Moore, Paul L. III, Assistant Professor, Business Administration, J.D., Law, Howard University

Moscowitz, John E., Professor, English - Basic; Ph.D., Higher Education, State University of New York; M.Ed. and B.A., English, Alfred University

Mouradian, Belinda, Instructor, Nuclear Medicine, Certificate, Radiology Tech

Mowell, Barry D., Interim Associate Dean, Social Science, History / Political Sciences; Ed.D., Social Science Education, University of Georgia; M.A., Religious Studies, Florida International University; M.N.P.M., Management Nonprofit, Florida Atlantic University; M.A., Geography / History and B.S., Geography, East Tennessee State University; A.S., Behavioral Science, Walters State Community College

Mulchan, Neil M., Assistant Professor, Physical Sciences; M.S. and B.S., Physics, Florida International University

- Denotes Broward College Alumni
Mulligan-Heckler, Susan, Associate Professor, Speech; M.A. and B.A., Speech/Communications, University of Miami

Murray, Shirley P., Assistant Professor, English; M.A., English, City University of New York; B.A., English, McGill University

Musgrove, Glenn J., Senior Professor, Behavioral Science; Ph.D. and M.S., Psychology, University of Georgia; B.A., Psychology, Eckerd College

Maza, Jay P., Assistant Professor, Physical Sciences; Ph.D., Geological Oceanography, M.S. and B.A., Geology, Florida State University; A.A., General Studies, Pensacola Junior College

Nasse, Jeffrey P., Associate Dean, English; M.A., English, East Carolina University

Nemeth, Joyce, Associate Dean, Mathematics; M.S., Mathematics, CUNY College of Staten Island; B.A., Mathematics Education, CUNY Brooklyn College

Nieves, Sonia, Associate Dean, Social/Behavioral Science, Behavioral Science; Ph.D., Clinical Psychology, Caribbean Center for Advanced St; M.S., Education, University of Bridgeport; M.S., Clinical Psychology, Caribbean Center for Advanced St; B.S., Biology, University of Puerto Rico Central; A.S., Business Information, Systems, Butte College

Nightingale, Barbra, Senior Professor, English; Ed.D., Community College Teaching, Florida International University; M.A., English, Florida Atlantic University; B.S., Health Services Admin, Florida International University; A.A., Health, Delgado Community College

Noorzai, Victoria, Assistant Professor, ESL; M.S., Foreign Language, Communications, University of Warsaw

Noriega, Claudio J., Professor, Architectural Technology; M.Arch., Architecture, Yale University; Architect

Norton, James R., Instructor, Automotive Technology; B.S., Professional management, Nova Southeastern University

Obenauf, Steven D., Associate Dean, Biological Sciences; Ph.D., Microbiology, University of Miami; B.S., Biology, Florida Atlantic University

Ocean, Mia, Student Affairs Specialist/Counselor, Counseling and Advisement; M.S.W., Social Work, University of Michigan; B.A., Psychology, University of West Florida; A.A., Psychology, Palm Beach Community College

Ohanian, Michael G., Senior Professor, Mathematics; Ph.D. and B.S., Chemistry, University of Wisconsin-Milwaukee

Oldfather, Susan J., Professor, History/Political Sciences; M.S., History, M.A., Geography and B.A., History, Florida Atlantic University

Oliveira, Pedro M., Assistant Professor, History/Political Sciences; Ph.D., Philosophy, D.M., Medicine, (br) U of Rio De Janeiro and M.A., Philosophy, (br) U of Rio De Janeiro

Ordonez-Argamonte Elizabeth, Instructor, Physical Therapy Assistant; B.S., Physical Therapy, Florida International University

Ortega, Rosario E., Campus Director, Student Life/Development, Student Life; B.S., Exercise Science and Health, Florida Atlantic University; A.A., Miami Dade College

Oshodi, John, Assistant Professor, Social & Behavioral Science; Ph.D., Clinical Psychology, Carlos Albizu University, M.S., Criminal Justice, B.S., Criminal Justice, Florida International University

Osterhoudt, Natalie, Assistant Professor, Biological Science; M.S., Zoology, Louisiana State University Baton; B.S., Zoology, Louisiana State University

Papa, Deborah A., Dean, Health Science; Ed.D., Health Care Education, Nova Southeastern University; M.S.N., Nursing, RN, Barry University; M.S., Health Education, Nova University; B.S.N., Nursing, RN, Barry University; Registered Nurse

Parker, Alon M., Assistant Professor, History/Political Science; M.A., Geography, Georgia State University

Parker, Karen S., Assistant Professor, English; M.A. Literature, Florida State University; B.A., English Florida A & M University

Perdian, David C., Assistant Professor, Physical Science; D.S., Analytical Chemistry, Iowa State University

Pereira, Nestor, Associate Dean, Technology Support, M.S., Education Technology, Nova Southeastern University; B.A., English, Florida International University

Perez, Erick M., Assistant Professor, Office Systems Technology; M.A., Economics, Florida International University

Pete, Eugene M., Instructor, Automotive Technology, A.S in Automotive Service Management, Broward College; Automotive Technology Certificate/License, Sacs Compliant Automotive Service Excel

Peter, George, Associate Professor, Nursing; M.S.N., RN and B.S.N., Nursing, RN, Florida International University; Advanced Registered Nurse Practitioner

Peters, David A., Associate Dean, Technology Support; M.S., Computer Information Systems and B.S., Management, University of Phoenix; A.A., General Studies, Broward College; A+ Certified Technician; Netware 5

Peterson, Ian A., Director/Technical Services, FCCSC Consortium

Phillips, Stephen T., Assistant Professor, Behavioral Science; Ph.D. and M.S., Psychology, University of Florida; B.A., Psychology, Rollins College

Plakcy, Neil S., Assistant Professor, English; M.F.A., Creative Writing, Florida International University; B.A., English, University of Pennsylvania

Pocknee, Roy, Interim Dean, Academic Affairs; Ph.D., Biological Sciences, and B.A., Biological Sciences, University of Lancaster

Polyakova, Marina I., Assistant Professor, Mathematics; M.S. and B.S., Mathematics, Tashkent State University

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Proctor, Avis R., Interim Associate Vice President, Academic Affairs; M.S.T., Mathematics, Florida Atlantic University; B.S., Mathematics Education, Florida A and M University

Puig, Shireen, Assistant Professor, English – Basic, M.S., English Education, Nova Southeastern University; B.A., English, Florida Atlantic University

Quinn, Colleen M., Associate Dean, Nursing; M.S., Nursing, Florida Atlantic University; B.A., Psychology, Southern Illinois University; A.A.S., Nursing, Trocaire College; Registered Nurse, Advanced Cardiac Life Support

Quiroga, Mercedes A., Campus President, Central; Ph.D., Higher Education Leadership, University of Miami; M.A., Art History, University of Miami

Raigosa, Juan F., Construction Projects Administration III, Facilities Planning Construction; B.S., Architectural Engineering, (co) National University of Colombia

Ramirez, Monica E., Dean, Academic Affairs; Ed.D., Education, University of Wyoming; Ed.S., Gifted Child Education, Nova Southeastern University, M.S., Geosciences, University of Munich, B.A. English & Geoscience, University of Munich

Reeder, Gregory K., Professor, Biological Sciences; D.D.S., Dentistry, University of Kentucky; M.S., Biology, Morehead State University; B.S., Biology, Morehead State University

Reid, Amoy A., Assistant Professor, English Second Language; Ed.D., Child and Youth Studies, Nova Southeastern University; M.S., Reading, Nova Southeastern University

Ricker, Paul, Assistant Professor, Marketing and Management; M.B.A., Business Administration, Florida Atlantic University; Ed.S., Curriculum and Instruction and B.B.A., Marketing, Florida Atlantic University; A.A., General Business, Santa Fe Community College

Rider, Douglas J., Assistant Professor, Emergency Medical Technology; American Heart Association; National Association of Emergency Medical Technicians; State Certified

Rieger, Daniel D., Associate Professor, Philosophy and Religion; Ph.D. and M.A., Philosophy, Syracuse University; M.A., Biblical Studies, Fuller Theological Seminary; B.A., Philosophy, Wheaton College

Rifkin, Sharon G., Professor, Wellness; M.A., Physical Education, University of Connecticut; B.S., Physical Education, City University of New York

Riollano, Zaida, Interim Associate Vice President, Procurement & Material Services, B.A., Health Education, CUNY Brooklyn College; A.A., Accounting, CUNY Boro of Manhattan Community

Robbins, Robert, Associate Vice President, Student Affairs / Financial Aid; M.B.A, Business Administration, M.B.A., Business Administration, University of Indianapolis; B.S., Financial Counsel & Planning, Purdue University

Roberts, Karen M., Interim Controller, College Accounting; M.B.A., Florida State University, B.S., Accounting, Florida State University

Robinson, Craig L., Instructor, Automotive Technology, A.S., Automotive Service Management, Broward Community College

Rodriguez, Angel M., Professor, Biological Sciences; M.S., Oceanography, University of California-San Diego; B.S., Marine Biology, University of Puerto Rico Humacao

Rodriguez-Florido, Lourdes M., Assistant Professor, English; M.S., English Education, Nova Southeastern University; B.S., Communications, Florida International University

Rogge, James A., Assistant Professor, Reading; M.Ed., Urban Education, University of Miami; Ed.S., Reading, Nova Southeastern University; B.A., Social Science Education, University of South Florida

Roig-Watnik, Steven M., Associate Professor, Mathematics, M.A., Mathematics, University of Texas at Austin; B.A., Mathematics, Florida Atlantic University

Rolle, Jamonica L., Assistant Professor, Speech; M.A., Communications, Florida Atlantic University

Romero, Dora Y., Senior Professor, Modern Foreign Language; Ph.D., French, University of Miami; M.A., French, University of Pittsburgh Central; B.A., French, Albright College

Rosser, Sherman A., Assistant Professor, Education; M.Ed., Administration and Supervision, Antioch College; B.S., General Studies, University of New Hampshire

Rothhaar, Janet A., Librarian; M.L.S., Library Science, University of Michigan Ann Arbor; B.A., Zoology, Connecticut College

Rothschild, Ronnie, Associate Professor, Behavioral Science; M.A., Psychology, New School for Social Research; B.A., CUNY Brooklyn College

Rousseau, Mary K., Associate Dean, Business Administration/Office Systems Technology; M.S., Computer Science Education, Nova Southeastern University

Rozman, Jure, Assistant Professor Music; D.M.A., Music, Louisiana State University; M.M., Louisiana State University

Ruggiero, Dianne M., Interim Associate Vice President, Developmental Education; Ed.D., Language and Literacy, University of Massachusetts; M.Ed., ESL, Boston State College; B.A., French, Bridgewater State College

Ruppel David L., Assistant Professor, Mathematics; M.S., Mathematics, University of Akron; B.S., Education, Secondary Education/Math, Concordia College

Russell, Angela C., Assistant Professor, Nursing; Ph.D., Nursing, Barry University; M.P.H., Public Health, Florida International University; B.S., Nursing, University of North Carolina; Licensed Registered Nurse; State Certified

Sacharow, Sherrie I., Assistant Professor, ESL; M.S., TESOL, Nova Southeastern University


Sahagun, Claudia A., Assistant Professor, Modern Foreign Language; M.A., Spanish, University of Kentucky
Sainvil, Frantz, Assistant Professor, Biological Science; M.Ed., Education, Florida Atlantic University; B.S., Chemistry, Barry University; A.A., Miami Dade College

Samet, Donna M., Assistant Professor, English; M.A., English, Florida Atlantic University; B.A., English, University of Illinois at Chicago

Sanchez-Bello, Gladys E., Student Affairs Specialist / Counselor, Counseling and Advisement; M.S., Marriage and Family Therapy, Carlos Albizu University

Sanderson, Sylvia, Associate Professor, Nursing; M.S.N., Nursing, Florida Atlantic University; B.S.N., Nursing, Nova Southeastern University; Registered Nurse

Sandmaier, Frank S., Associate Vice President, Technology Infrastructure Services, Information Technology; M.A., Organizational Management, University of Phoenix; B.S., Computer Engineering Technology, University of Florida

Santiesteban, Vicky L., Assistant Professor, English; M.A., English, University of North Texas

Sarria, Aline F., Dean, Teacher Education Program, Bachelor Education Program Administration, Ed.D., Curriculum & Instruction, Florida International University; M.Ed., Reading and B.S.E., Education, University of Miami

Schuld, Elena Rae F., Director, Service Learning, Student Success Initiative South, M.S., Computer Science, Nova Southeastern University, B.S., Computer Science, Barry University

Schwartz, Jerry, Dean, Partnership Centers; M.A. and B.A., Economics, Long Island University Brooklyn

Scott, Cecil W., Assistant Professor, Reading; Ed.D., Child and Youth Studies, Nova Southeastern University; M.S., Elementary Education and B.A., Liberal Studies, Barry University

Sevart, Frederick T. Jr., Professor, Biological Sciences; M.S., Botany, University of Mississippi; M.S., Library Science, Florida State University; B.A., Biology, University of Mississippi

Seavers, Norman R., Associate Vice President, Economic Development Institute; M.Ed. and B.S.Education, Southern Illinois University

Senior, Patricia, Associate Vice President, Human Resources & Equity; Ed.S., Education Leadership and M.Ed., Guidance and Counseling, Florida Atlantic University; B.S., Social Welfare, SUNY Albany

Senior, William A., Interim Associate Dean, English; Ph.D., English, University of Notre Dame; M.A., Medieval Studies, University of Connecticut; B.A., English, Colby College

Serrano, David Assistant Professor, Biological Sciences; Ph.D., Entomology & Nematology, University of Florida; B.S., Biology, University of Miami

Service, John G., Professor, Business Administration; J.D., Law, University of Miami; B.B.A., Finance, Florida Atlantic University; A.A., General Education, Broward College

Shakespeare, Jan, Associate Dean, Aviation Operations; M.A.S., Aeronautical Science, Embry-Riddle Aeronautical University; B.A., Liberal Arts, Florida Atlantic University; A.S., Aviation Maintenance, Broward College

Shaw, Pam, Associate Dean, Student Affairs; M.S., Higher Education Administration and B.S., Liberal Studies, Barry University

Sherman, Barbara E., Professor, Nursing; M.S.N., Nursing, Wayne State University; B.S.N., Nursing, Mercy College of Detroit; Registered Nurse

Shives, Kenneth P., Associate Dean, Institute of Public Safety; B.S., Criminal Justice, Ball State University

Shoemaker, Melinda A., Assistant Professor, Behavioral Science; Ph.D. Clinical Psychology, Union College; M.S., Counseling Psychology, Nova Southeastern University

Shulman, David M., Director, Learning Technologies, Instructional Technology; Ph.D., Information Technology, Nova Southeastern University, M.S., Education Computer and Technology, Barry University; B.S., Computer Information Systems, Western International University

Shupp, Wendy S., Professor, Nursing; M.S.N., Northwestern State University; B.S.N., Nursing, Cedar Crest College; A.S., General Studies, Vermont College; Registered Nurse

Sica, Vincent J., Director, Printing and Graphics Arts

Siddique, Ehsan Assistant Professor, Biological Sciences; M.D University of Chittagong

Siegler, Jennifer E., Assistant Professor, Mathematics; M.A.T., Mathematics and Education, University of Michigan; M.A., Mathematics, Oakland University; B.A., Psychology, Wayne State University

Silva, Isis T., Assistant Professor, Education; M.S., Reading Florida International University; M.A Educational Leadership, Florida International University; B.S., Elementary Education W/ESOL Endorsement

Simone, Yvonne M., Instructor, Cardiorespiratory; B.S., Biology, University of Detroit

Simpson, Sharon F., Associate Professor, Biological Sciences; Ph.D., Anatomy, University of Illinois - Chicago; M.A.T., Education, M.S., Zoology and B.Ed., Secondary Education, University of Vermont

Skelton, Lee J., Assistant Professor, English Second Language Voc, M.A., Linguistics, Florida Atlantic University; B.A., English, University of Florida

Sloan, Leo D., III, Assistant Professor, Business Administration; M.B.A., Business Administration, University of Rhode Island; B.S., Aeronautical Studies, Parks College of Saint Louis University

Slossberg, Lynn, Assistant Professor, Legal Assisting JD, Law, George Washington University; M.A., Johns Hopkins University, B.A., Tulane University Of Louisiana

Slootsky, Lois R., Associate Professor, Accounting; M.S. and B.A., Accounting, Florida International University; CPA

Smith, Albert E., Dean, Business Affairs; M.B.A., Business Administration, Adelphi University
Organization of the College

Smith, Edward P., Senior Professor, History / Political Sciences; M.A. and B.A., History, West Virginia University

Smith, Elena C., Student Affairs Specialist/Counselor, Student Success Central; M.S., Higher Education, University of Miami, B.A., Education, Montclair State University.

Smith, Mary O., Assistant Professor, Reading; M.Ed., Reading, Georgia Southwestern College; B.S., Elementary Education, Western Kentucky University.

Smith, Susan M., Assistant Professor, Speech; D.Rel., Religious Education, Jacksonville Baptist Theology Seminary; M.A.T., Speech, B.S., Broadcasting and A.A., General Studies, University of Florida.

Solis, Karen B., Assistant Professor, Nursing; M.S., Nursing, California State University.

Solley, Jennifer Assistant Professor, Reading; M.Ed., Reading Education, Florida Atlantic University; B.A., Education, Exceptional Student Education, Florida Atlantic University.

Sotolongo, Fred, Assistant Professor, Computer Science; M.S., Computer Information Systems and M.B.A., University of Miami; B.S., Computer Science, Florida International University.

Spaulding, Tamara L., Instructor, Police/Corrections, A.A., Criminal Justice, Broward Community College; Law Enforcement & Corrections, School Of Broward County Criminal Just Standards & Training.

Spector, Ira A., Assistant Professor, Mathematics; M.A.T., Mathematics, University of Florida; B.A., Mathematics, SUNY at Binghamton.

Spencer, Suzette D., Librarian; M.L.S., Library and Information, Pratt Institute.

Spring, Joel, Instructor, Mathematics; B.Ed., Secondary Education / Math, University of Florida.

Srygler, Judy, Manager, Campus Facilities, Operation Physical Plant; A.A., Broward College.

St. Pierre, Lisa A., Assistant Professor Nursing; DNP, Nursing Education, Chatham College; M.S.N Nursing Education, Nova Southeastern University; B.S., Nursing, Florida International University; A.S., Nursing, Broward College.

Stallard, George A., Dean, Business Affairs; D.B.A., Human Resources Management, Nova Southeastern University.

Stawicki, Jacqueline A., Associate Dean, Diagnostic Medical Sonography / Nuclear Medicine / Medical Assisting / Radiology / Radiation Therapy; B.A., Vocational Education, California State University Long; A.S., Radiologic Technology, Chaffey Community College; American Registry Radiologic Technology.

Stevenson, Kenneth G., Associate Vice President, Development Services; M.S., Social Welfare, SUNY at Stony Brook.

Stewart, Joy E., Assistant Professor, Biological Sciences; M.S., Biological Sciences, Florida Atlantic University; Teachers Certification.

Stitsky, Leo J., Associate Professor, Visual Art; M.F.A., Painting/Sculpture, Columbia University; B.F.A., Painting/Sculpture, California College of Arts.

Stollman, Sandra H., Assistant Professor, English; M.A., Creative Writing, CUNY City College; B.A., Anthropology, Columbia University - Columbia C.

Stone, Sandra J., Instructor, Massage Therapy; B.S., Occupational Therapy, Barry University; A.A., Business Administration and A.S., Legal Assisting, Palm Beach Community College; Massage Therapist.

Stouder, Leo B., Assistant Professor, Biological Sciences; D.C., Chiropractic and B.S., Biology, National College of Chiropractic; A.A., Liberal Arts, Macomb Community College.

Stubbs, Janice A., Dean, Student Affairs, South, M.S., Higher Education Administration, Barry University; B.P.M., Public Administration, Florida International University; A.A., Journalism, Miami Dade College.

Sturdy, Janet, Associate Dean, University and College Library, Learning Resources; M.A., Library and Information Studies, University of South Florida; B.A., Mathematics, Florida Atlantic University.

Sweeney, Esmeralda, Associate Dean, Academic Resources; M.S., Human Relations & Business, Amberton University, B.A., Psychology, Florida International University, A.A., Psychology, Broward College.

Tan, Daniel, Librarian, Library; M.A., Library and Information Studies, University of South Florida; B.S., Engineering Science, University of Florida; A.A., Pre-Med, Broward College.

Taylor, Rodney, Professor, Computer Science; M.B.A., Business Administration and B.S., Business Administration, Southeast Missouri State University.

Tearle, Maryeve, Director, Center-Business and Industry, Economic Development; M.S., Human Resources Management, National College of Education; B.A., Communications, Loyola University of Chicago.

Tella, Oluwinka, Student Affairs Specialist / Counselor, Counseling and Advisement; Ed.D, Higher Education, Florida International University; M.S., College Student Personnel Service, Western Illinois University.

Tenenbaum, Michael I., Student Affairs Specialist / Counselor, Student Success; M.Ed, Counselor Education and B.A., Psychology, Florida Atlantic University; A.A., Psychology, Broward College.

Thompson, Byron G., Assistant Professor, Mathematics; M.A.T., Education, Duke University; B.A.S., Computer Science, Florida Atlantic University; B.A., Mathematics, Huntington College.

Thompson, Winston A., Interim Dean, Academic Affairs, Willis Holcombe Center; Ph.D., Religion, Columbia University; S.T.M., Philosophy of Religion, Union Theological Seminary; M.Phil., Religion, Columbia University; M.A.R., Religion, Westminster Theological Seminary; B.Th., Theology, Jamaica Theological Seminary.
Thorner, Lynne B., Assistant Professor English; M.A Humanities, Manhattanville College; B.S., English, University of Vermont

Thornton, John E., Dean, Business Affairs, M.B.A., West Chester University of Pennsylvania; B.S., Business Administration, Widener University Central Office; A.A.S., Criminal Justice Administration, Delaware County Community College

Tidwell, Judith C., Librarian; M.L.S Library and Information Science, University of Texas, Austin; B.A English Literature, University of Texas, Austin

Tilles, Mindy L., Student Affairs Specialist / Counselor, Counseling and Advisement; M.Ed., College Student Personnel Service and B.A., Psychology, University of Miami

Tonge, Carolyn A., Associate Dean, ESL / Reading / SLS, English Second Language; Ed. D., Higher Education, Florida International University; M.A., Education, City University of New York; B.A., English, Nyack College

Townsend Carpenter, April M., Associate Vice President, Student Business Services, Credit And Collection, M.S., Higher Education Admin, Florida International University; M.A., Literature, Florida Atlantic University; B.A., English, Florida Atlantic University

Trentow, Jane A., Associate Professor, Business Administration; Ph.D., Dispute Resolution, Nova Southeastern University; M.B.A., Marketing, Saint Johns University New York; B.S., Marketing, Fashion Institute of Technology

Tromans, Mark A., Associate Dean, Behavioral Science and Education; M.A., Anthropology, Florida Atlantic University; B.A., Anthropology, Clarion University of Pennsylvania

Tunks, Lisa, Assistant Professor, Activities-Wellness, Ed.D., Education, University of Florida

Turner, Ashley, Interim Campus Director, Student Life/Development, M.P.A., Public Administration, Nova Southeastern University, B.S., Political Science, University of Southern Mississippi, A.A., Broward Community College

Ulibarri, Fernando Assistant Professor, Music; M.M Florida International University; B.M Berklee College of Music

Ullah, Shafi, Senior Professor, Business Administration; D.B.A., Management, Nova Southeastern University; M.B.A., Business Administration, University of Central Oklahoma; B.B.A., Accounting, Dhaka University; Teaching Certificate, Accounting, University of California Los Angeles

Valdes, Susanne, J., Construction Project Admin I, Facilities Planning Construction; B.A.A., Architecture, University of Miami

Valli, Mary Jane, Assistant Professor, Nursing; M.S.N., RN and B.S.N., Nursing, RN, University of Pittsburgh Central; Registered Nurse

Varghese, Bobby, Assistant Professor, Nursing-Central M.S.N., Nursing, Bangalore University, B.S.N., Nursing, RN, Mahatma Gandhi University; Adv Cardiac Life Support; Basic Life Support; Pediatric Adv Life Support; Registered Nurse

Vattiat, Julia M., Associate Dean, Teacher Education Program & Educator Preparation Institute; M.Ed., Educational Leadership, Florida Atlantic University; B.A., Psychology, Loyola College

Vazquez, Ricardo M., Assistant Professor, English; M.F.A Creative Writing, Southern Illinois University; B.A English, Florida Atlantic University

Vergara, Hector F., Assistant Professor; Construction & Civil Engineering; B.A., Civil Engineering, U National Colombia

Viggiano, Louis, Associate Professor, Mathematics; M.S., Computer Science, Pratt Institute; B.S.E.E., Electrical Engineering, City University of New York

Villanueva, Yuri, Assistant Professor, Computer Science / Engineering; M.S. and B.S.E.E., Electrical Engineering, University of Florida

Volpi, Kristine L., Assistant Professor, Exceptional Student Education; M.S., Elementary Education - Computer Education, Nova Southeastern University; B.A., Sociology, University of California-Santa Barbara

Wagner, Michelle S., Assistant Professor, English – Basic, M.A., English, California State University Northridge; B.A., English, California State University Northridge

Walsh, Kevin P., Assistant Professor, History / Political Sciences; Ph.D., Political Science, Southern Illinois University; M.A., Political Science, Eastern Illinois University; B.A., Triton College

Walsh-Portillo, Joyce G., Associate Professor, Office Systems Technology; M.B.A., Business Administration, Universidad Americana; B.A., Anthropology, University of South Florida

Walters, Glenn E., Assistant Professor, Aviation Operations; M.B.A., Business Administration, Florida Atlantic University; Airframe Powerplant

Wang, Xiao, Senior Professor, English; Ph.D., English, Ball State University; M.A., English, Saint Cloud State University

Ward, Joseph F., Assistant Professor, Business Administration; M.S., Economics, University of Baltimore; B.A., Geography, University of Pittsburgh Central

Washington, Linda L., Associate Dean, Nursing; Ph.D., Nursing and M.S.N., Nursing, University of Miami; B.S.N., Nursing, Florida International University; A.S., Nursing, Miami Dade College

Wawerczyk, Timothy A., Instructor, Automotive Technology; A.S., Automotive Service Management, Broward College; Automotive Certifications

Westerfeld, Todd, Student Affairs Specialist / Counselor, Ph.D. and M.S., Clinical Psychology, Nova Southeastern University
Williams, Kyla L., Assistant Professor, Mathematics; M.S., Mathematics Education, Florida State University; B.S., Mathematics, Florida A & M University

Williams, Michael M., Assistant Professor, Theatre; M.F.A., Drama, University of Texas at Austin

Wiltgen, Robert M., Student Affairs Specialist / Counselor, Pines Center; M.Ed., Counseling Education, Old Dominion University; B.S., Criminal Justice, Radford University

Windler, Charles W., Assistant Professor, History / Political Sciences; Ph.D., Political Science, M.S., Government and M.S., Community / Theory / Research, Florida State University; B.A., Government, University of Notre Dame

Wise, Linda M., Assistant Professor, Nursing; M.S.N Nova Southeastern University; B.S Nursing, Florida International University

Witkov, Carey J., Assistant Professor, Physical Sciences; M.A., Physics, Sangamon State University; B.S., Science Engineering, Northwestern University

Witkov, Carey J., Assistant Professor, Physical Sciences; M.A., Physics, University of Illinois at Springfield; B.A., Science Engineering, Northwestern University

Wood, Linda A., Dean, Institute of Public Safety; M.P.A., Public Administration, Temple University; B.S., Criminal Justice, Trenton State College

Wooden, Walter, Senior Professor, Mathematics; M.S., Natural Sciences, Rensselaer Polytechnic Institute; B.S., Mathematics, Bob Jones University

Yang, Jianchange, Assistant Professor, Computer Science-Industrial, Ph.D., Computer Science, University of Kentucky

Yang-Krivak, Wei, District Director, Center for Global Education & Commerce, M.S., Business Administration, University of Illinois

Zigler, Topeka M., Student Affairs Specialist/Counselor; M.A Adult & Continuing Education, Florida Atlantic University; B.A Florida Atlantic University; A.A Criminal Justice, Broward College

Faculty at Commencement
Broward College
Campus Locations and Registration Hours

1 Willis Holcombe Center
225 East Las Olas Blvd.
Fort Lauderdale, FL 33301
Registration: Bldg. 33, Room 109
Bookstore (FAU Bldg.): 954-762-5204
Registration Hours:
Monday-Thursday 8 a.m.-6 p.m.
Friday 8 a.m.-4 p.m.

2 A. Hugh Adams Central Campus
3501 S.W. Davie Road, Davie, FL 33314
Registration: Bldg. 19, Room 104
Bookstore (Bldg. 19): 954-201-6830
Registration Hours:
Monday-Thursday 8 a.m.-4 p.m.
Friday 8 a.m.-4 p.m.

3 North Campus
1000 Coconut Creek Blvd.
Coconut Creek, FL 33066
Registration: Bldg. 46, 2nd floor
Bookstore (Bldg. 46): 954-201-2225
Registration Hours:
Monday-Thursday 8 a.m.-7 p.m.
Friday 8 a.m.-4 p.m.

4 Judson A. Samuels South Campus
7200 Pines Blvd., Pembroke Pines, FL 33024
Registration: Bldg. 68, Room 113
Bookstore (Bldg. 67): 954-201-8805
Registration Hours:
Monday-Thursday 8 a.m.-7 p.m.
Friday 8 a.m.-4 p.m.

5 Pines Center
16957 Sheridan Street
Pembroke Pines, FL 33331
Registration Hours:
Monday & Wednesday 8 a.m.-7 p.m.
Tuesday & Thursday 8 a.m.-5 p.m.
Friday 8 a.m.-4 p.m.

6 Miramar Automotive/Marine Center
7451 Riviera Blvd., Miramar, FL 33023

7 Tigertail Lake Recreational Center
580 Gulfstream Way, Dania Beach, FL 33304

8 Weston Center
4205 Bonaventure Blvd., Weston, FL 33332

9 Miramar Town Center
2050 Civic Center Place, Miramar, FL 33025

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North Campus
1000 COCONUT CREEK BOULEVARD, COCONUT CREEK, FL 33066

RED ARROW INDICATES PATH FOR DISABILITY SERVICES STUDENTS

- SMOKING AREAS

CALL BOX LOCATIONS

CAMPUS SAFETY: BLDG. 46/ROOM 101

ALL ELEVATOR PHONES ACT AS CALL BOXES

Bldg. 41 Health Sciences
Bldg. 42 Physical Plant
Bldg. 46 Student Services (Admissions/Cashier/Disability Services/Financial Aid/Registration/Testing)
Bldg. 47 English/Communication/Reading/ESL/SLS
Bldg. 48 Engineering Technology/Computer Science
Bldg. 49 Campus Administration/Classrooms
Bldg. 50 Fine Arts – Visual & Performing/Business Administration/Bachelor of Applied Science Programs
Bldg. 51 Business Administration/Bachelor of Applied Science Programs
Bldg. 52 Classrooms/Math Lab
Bldg. 56 Social/Behavioral Science
Bldg. 57 Mathematics/Science
Bldg. 60 Omni Auditorium/Wellness
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