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[www.broward.edu](http://www.broward.edu)  
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Broward Community College Locations

A. HUGH ADAMS
CENTRAL CAMPUS
3501 Southwest Davie Road
Davie, Florida 33314
(954) 201-6865

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

WILLIS HOLCOMBE DOWNTOWN CENTER
College Administration Offices
111 East Las Olas Boulevard
Fort Lauderdale, Florida 33301
(954) 201-7465

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

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

WESTON CENTER
4205 Bonaventure Boulevard
Weston, Florida 33332
(954) 201-3601

MAROONE AUTOMOTIVE CENTER AT BCC MIRAMAR
7451 Riviera Boulevard
Miramar, FL 33023

ACCREDITATION
Broward Community 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) 679-4501)
to award Associate 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 Community 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 at www.broward.edu.

NOTE: BCC APPLICATION ATTACHED TO INSIDE BACK COVER
At the college, we are committed to providing you the opportunity, tools and support you need to succeed, whether you’re going on to complete a four-year degree or plan to enter the workforce. Our distinguished faculty teach in state-of-the-art classrooms and laboratories using the latest technology. You’ll find the personalized environment each professor creates makes learning stimulating and exciting.

BCC’s mission is to provide an excellent higher education at an affordable price that is easily accessible from where our students live and work. More than a million students have made Broward Community College their springboard to success. Whatever your experiences and background, I know you'll feel at home on one of our campuses.

I look forward to seeing you on campus.

Larry Calderon
President
Academic Calendars

Term I (20071)

Term II (20072)

Term III (20073)

Weekend College

Flexible Learning

International Student Admission Deadlines

Final Examination Schedule
# COLLEGE CALENDAR 2006-2007
## TERM I (20071)

<table>
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<tr>
<td>Aug 21-Dec 14</td>
<td>Aug 21-Oct 16</td>
<td>Sep 11-Dec 7</td>
<td>Oct 18-Dec 13</td>
</tr>
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### REGISTRATION AND ADVISEMENT
1. Registration (Graduation Candidates)*: Jun 1-Aug 20, Jun 1-Aug 20, Jun 1-Sept 10, Jun 1-Oct 17
4. Registration: State Employees for Waiver: Aug 18, Aug 18, Sep 8, Oct 17
5. CLASSES BEGIN: 8:00 AM: Aug 21, Aug 21, Sep 11, Oct 18
7. Last Day For Drop and Last Day for 100% Refund***: Aug 25, Aug 25, Sep 14, Oct 23
8. Last Day to Drop for 100% Refund for Weekend College**: Aug 31, Aug 31, Sep 19, Oct 24

### HOLIDAY (Labor Day)
No classes day or evening: Sept 4, Sept 4

### HOLIDAY (Fall Holiday)
No classes day or evening: Oct 2, Oct 2, Oct 2

### MIDTERM
Oct 16, Sept 18, Oct 23, Nov 14

### LAST DAY TO WITHDRAW FROM ANY CLASS
Oct 26, Sept 22, Nov 1, Nov 21

### LAST DAY TO CHANGE FROM CREDIT TO AUDIT****
Oct 26, Sept 22, Nov 1, Nov 21

### HOLIDAY (Veterans Day)
No classes day or evening: Nov 10, Nov 10, Nov 10

### HOLIDAY (Thanksgiving)
No evening classes: Nov 22, Nov 22, Nov 22
No classes day or evening: Nov 23-26, Nov 23-26, Nov 23-26

### LAST DAY OF CLASSES
Dec 14, Oct 16, Dec 7, Dec 13

### FINAL EXAMINATIONS
Dec 7-14, Last Class Meeting, Last Class Meeting, Last Class Meeting

### GRADUATION
Dec 15, Dec 15, Dec 15, Dec 15

### GRADES DUE IN THE CAMPUS REGISTRATION OFFICE BY 3:00 PM
Dec 15, Dec 15, Dec 15, Dec 15

*Special registration for students within 15 hours (or less) of degree completion.
**Weekend College has a separate Calendar on Page 9.
***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 11 for additional information regarding Admission Deadlines.*

*College Offices will be closed from December 20, 2006 through January 1, 2007. Registration on the Web will be available except December 25, 2006 and January 1, 2007.*

**NOTE:** SESSION 1 Friday evening, Saturday, and Sunday classes will have final examinations on December 8-10, 2006.

**NOTE:** Refunds permitted if withdrawals are done prior to the second class meeting for short courses that meet less than eight weeks.
### College Calendar 2006-2007

**TERM II (20072)**

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<td>Jan 8-May 7</td>
<td>Jan 8-Mar 2</td>
<td>Jan 29-Apr 27</td>
<td>Mar 12-May 3</td>
</tr>
<tr>
<td>1. Pre-Registration (Graduation Candidates)*</td>
<td>Nov 1-Jan 7</td>
<td>Nov 1-Jan 7</td>
<td>Nov 1-Jan 28</td>
<td>Nov 1-Mar 11</td>
</tr>
<tr>
<td>2. Registration: Continuing Students</td>
<td>Nov 2-Jan 7</td>
<td>Nov 2-Jan 7</td>
<td>Nov 2-Jan 28</td>
<td>Nov 2-Mar 11</td>
</tr>
<tr>
<td>4. Registration: State Employees for Waiver</td>
<td>Jan 5</td>
<td>Jan 5</td>
<td>Jan 26</td>
<td>Mar 2</td>
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<tr>
<td>5. <strong>CLASSES BEGIN 8:00 AM</strong></td>
<td>Jan 8</td>
<td>Jan 8</td>
<td>Jan 29</td>
<td>Mar 12</td>
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<tr>
<td>6. Weekend College Classes Begin**</td>
<td>Jan 12</td>
<td>Jan 12</td>
<td>Feb 2</td>
<td>Mar 16</td>
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<tr>
<td>7. Last Day for Drop and Last Day for 100% Refund****</td>
<td>Jan 16</td>
<td>Jan 11</td>
<td>Feb 1</td>
<td>Mar 15</td>
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<tr>
<td>8. Last Day to Drop for 100% Refund for Weekend College**</td>
<td>Jan 16</td>
<td>Jan 16</td>
<td>Feb 6</td>
<td>Mar 19</td>
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**HOLIDAY (Martin L. King, Jr. Birthday)**

No classes day or evening

Jan 15

**PROFESSIONAL DEVELOPMENT DAY**

No classes day or evening

Feb 23

**HOLIDAY (Spring Break)**

Mar 5-Mar 11

**MIDTERM**

Mar 13

Feb 2

Mar 19

Apr 6

**LAST DAY TO WITHDRAW FROM ANY CLASS**

Mar 23

Feb 9

Mar 27

Apr 12

**LAST DAY TO CHANGE FROM CREDIT TO AUDIT****

Mar 23

Feb 9

Mar 27

Apr 12

**LAST DAY OF CLASSES**

May 7

Feb 28

Apr 27

**FINAL EXAMINATIONS**

Apr 30-May 7

Last Class Meeting

Last Class Meeting

Last Class Meeting

**GRADUATION**

May 8

May 8

May 8

May 8

**GRADES DUE IN THE CAMPUS REGISTRATION OFFICE BY 3:00 PM**

May 8

Mar 12

May 8

May 8

---

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

**Weekend College has a separate Calendar on Page 9.

***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 11 for additional information regarding Admission Deadlines.

College Offices will be closed from December 20, 2006 through January 1, 2007. Registration on the Web will be available except December 25, 2006 and January 1, 2007.

**NOTE:** SESSION 1 Friday evening, Saturday and Sunday classes will have final exams on May 4-6, 2007.

**NOTE:** Refunds permitted if withdrawals are done prior to the second class meeting for short courses that meet less than eight weeks.
## College Calendar 2006-2007
### TERM III (20073)

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<td>Mar 12-May 8</td>
<td>Mar 12-Jun 21</td>
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<td>Mar 13-May 8</td>
<td>Apr 2-May 8</td>
<td>Apr 2-Jun 21</td>
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<td>2. Registration: Continuing Students</td>
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<td>May 8</td>
<td>Jun 21</td>
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<td>3. Registration: New and Re-Entry Students</td>
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<td>May 9</td>
<td>Jun 22</td>
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<tr>
<td>4. Registration: State Employees for Waiver</td>
<td>May 11</td>
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<td>Jun 22</td>
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<td>5. <strong>CLASSES BEGIN 8:00 AM</strong></td>
<td>May 9</td>
<td>May 9</td>
<td>Jun 22</td>
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<tr>
<td>6. Weekend College Classes Begin**</td>
<td>May 11</td>
<td>May 11</td>
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<td>7. Last Day for Drop and Last Day for 100% Refund***</td>
<td>May 15</td>
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<td>Jun 28</td>
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<td>8. Last Day to Drop for 100% Refund for Weekend College**</td>
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<td>May 15</td>
<td>Jun 28</td>
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### HOLIDAY (Memorial Day)
No classes day or evening

### MIDTERM

### LAST DAY TO WITHDRAW FROM ANY CLASS

### LAST DAY TO CHANGE FROM CREDIT TO AUDIT****

### HOLIDAY (Independence Day)
No classes day or evening

### LAST DAY OF CLASSES

### FINAL EXAMINATIONS

### GRADES DUE IN THE CAMPUS REGISTRATION OFFICE BY NOON

Alternate Friday classes are divided as follows:

**Session 2**
Monday and Wednesday classes will meet on May 18, June 1 and June 15, 2007.
Tuesday and Thursday classes will meet on May 11, May 25, and June 8, 2007.

**Session 3**
Monday and Wednesday classes will meet on July 6, July 20, and August 3, 2007.
Tuesday and Thursday classes will meet on June 29, July 13, and July 27, 2007.

*Special registration for students within 15 hours (or less) of degree completion.
**Weekend College has a separate Calendar on Page 9.
***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 11 for additional information regarding Admission Deadlines.
## WEEKEND COLLEGE CALENDAR 2006-2007

### TERM I

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</table>

**CLASSES START**
- Aug 25
- Aug 31
- Oct 2
- Oct 26

**Last Day to Drop with 100% Refund**
- Aug 31
- Sept 19
- Oct 2
- Nov 1

**HOLIDAY (Fall Holiday)**
- Oct 2
- Sept 22
- Nov 1
- Nov 10

**Last Day to Withdraw from any Class**
- Oct 26
- Sept 22
- Nov 1
- Nov 10

**HOLIDAY (Veteran’s Day)**
- Nov 10
- Nov 10
- Nov 10
- Nov 10

**HOLIDAY (Thanksgiving)**
- Nov 23-26
- Nov 23-26
- Nov 23-26
- Nov 23-26

**CLASSES END**
- Dec 14
- Oct 16
- Dec 7
- Dec 13

**FINAL GRADES DUE IN THE CAMPUS**
- Dec 15
- Oct 17
- Dec 15
- Dec 15

**REGISTRATION OFFICE BY 3:00 PM**
- Dec 15
- Oct 17
- Dec 15
- Dec 15

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### 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 8-May 7</td>
<td>Jan 8-Mar 2</td>
<td>Jan 29-Apr 27</td>
<td>Mar 12-May 3</td>
</tr>
</tbody>
</table>

**CLASSES START**
- Jan 12
- Jan 15
- Feb 23
- Mar 5-11

**HOLIDAY (Martin L. King, Jr. birthday)**
- Jan 15
- Jan 15
- Feb 23
- Mar 5-11

**Last Day to Drop With 100% Refund**
- Jan 16
- Jan 16
- Feb 23
- Mar 23

**Professional Development Day**
- Feb 23
- Feb 23
- Mar 23
- May 7

**CLASSES END**
- Mar 8
- May 8
- June 21
- Aug 6

**FINAL GRADES DUE IN THE CAMPUS**
- Mar 12
- May 8
- June 21
- Aug 6

**REGISTRATION OFFICE BY 3:00 PM**
- May 8
- May 12
- May 8
- Aug 6

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### TERM III

<table>
<thead>
<tr>
<th>Session I</th>
<th>Session II</th>
<th>Session III</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 9-Aug 3</td>
<td>May 9-Jun 20</td>
<td>Jun 22-Aug 6</td>
</tr>
</tbody>
</table>

**CLASSES START**
- May 9
- May 15
- July 2
- May 28

**Last Day to Drop With 100% Refund**
- May 9
- May 15
- July 2
- May 28

**Last Day to Withdraw From Any Class**
- May 15
- July 2
- July 4
- Aug 6

**HOLIDAY (Memorial Day)**
- June 22
- June 28
- July 4
- Aug 6

**HOLIDAY (Independence Day)**
- July 19
- July 4
- July 4
- July 4

**CLASSES END**
- June 22
- Aug 6
- Aug 6

**FINAL GRADES DUE IN THE CAMPUS**
- Aug 6
- Jun 20
- Aug 6

**REGISTRATION OFFICE BY NOON**
- Aug 6
- Jun 21
- Aug 6

**NOTE:** For Registration dates, see College Calendar on preceding pages.
## FLEXIBLE LEARNING CALENDAR 2006-2007
(Fully On-Line, Blended E-Learning, and Video Courses)

### CLASSES START
Flexible Learning courses may begin at different times during the semester and may or may not require on-campus meetings. Check course notes in the college course schedule for meeting dates and additional course information.

### REGISTRATION
Students may continue to register for Flexible Learning sections up through the 1st class meeting if there are still vacancies. If the Flexible Learning course has no required meeting dates students may register through the first day of on-campus courses.

### LAST DAY TO WITHDRAW WITH 100% REFUND
Flexible Learning students may receive a 100% refund within five business days following their first class meeting. If the course has no scheduled meetings, students may receive a 100% refund through the refund date listed in the catalog for on-campus courses.

<table>
<thead>
<tr>
<th>LAST DAY TO WITHDRAW WITHOUT REFUND OR TO CHANGE FROM CREDIT TO AUDIT</th>
<th>Term I</th>
<th>Term II</th>
<th>Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session III</td>
<td>Nov 1, 2006</td>
<td>March 27, 2007</td>
<td>July 19, 2007</td>
</tr>
<tr>
<td>Session IV</td>
<td>Nov 21, 2006</td>
<td>Apr 12, 2007</td>
<td></td>
</tr>
</tbody>
</table>

### CLASSES END
Flexible Learning Courses have different ending dates. Check the College course schedule and/or course web site for details.

<table>
<thead>
<tr>
<th>FINAL GRADES DUE IN THE CAMPUS REGISTRATION OFFICE</th>
<th>Term I</th>
<th>Term II</th>
<th>Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session IV</td>
<td>Dec 15, 2006</td>
<td>May 8, 2007</td>
<td></td>
</tr>
</tbody>
</table>

See the Flexible Learning Section in this Catalog for more information, or call the Flexible Learning Office at (954) 201-6564 for further details.
INTERNATIONAL STUDENT’S ADMISSION DEADLINES*

TERM I

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Aug 21-Dec 14</td>
<td>Aug 21-Oct 16</td>
<td>Sep 11-Dec 7</td>
</tr>
</tbody>
</table>

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

TERM II

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

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<tbody>
<tr>
<td>May 9-Aug 3</td>
<td>May 9-Jun 20</td>
<td>Jun 22-Aug 6</td>
</tr>
</tbody>
</table>

First time International Students must register for both Session II and Session III.

*The College Registrar or the Vice President for Student Affairs must approve any exceptions to the above schedules.
BROWARD COMMUNITY COLLEGE  
2006-2007  
FINAL EXAMINATION SCHEDULE FOR CLASSES IN 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. Please consult with the professor.

FRIDAY, DECEMBER 8, 2006
For classes normally meeting on Friday or Saturday, your Final Exam will be at your regular class time.

MONDAY, DECEMBER 11, 2006
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

TUESDAY, DECEMBER 12, 2006
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 13, 2006
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 9:30 pm

THURSDAY, DECEMBER 14, 2006
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 9:30 pm

NOTE:
For classes normally meeting one hour per week, please consult your instructor.
All examinations will be held in regular classrooms unless students are notified to the contrary by the professor. Examinations may have room conflicts. Please consult with the professor.

TUESDAY, MAY 1, 2007
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, MAY 2, 2007
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 9:30 pm

THURSDAY, MAY 3, 2007
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 9:30 pm

FRIDAY, MAY 4, 2007
For classes normally meeting on Friday or Saturday, your Final Exam will be at your regular class time.

MONDAY, MAY 7, 2007
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 11:00am
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 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.
Facts About Broward Community College

Institutional Mission and Philosophy

Campuses and Centers

History of the College

District Board of Trustees

Equal Opportunity Policy

Policy Prohibiting Discrimination, Harassment and Retaliation
Facts about Broward Community College

Institutional Mission and Philosophy

Mission Statement
The mission of Broward Community College is to provide high quality educational programs and services that are affordable and accessible to a diverse community of learners. Supported by the Board of Trustees and the community, a dedicated faculty and staff fulfills this mission through its commitment to student achievement, lifelong learning, academic excellence, and the use of current technology.

Philosophy
As an institution committed to the ideal of the worth and dignity of the individual, Broward Community College recognizes the religious, racial, 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 both 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.

Beliefs
- That all individuals, regardless of race, creed, or national origin, are able to learn and should be given the opportunity to succeed in their endeavors.
- That all segments of the community can benefit from lifelong learning.
- That all individuals should be treated with respect and dignity.
- That all individuals should have the opportunity to access affordable educational opportunities.
- That many educational experiences can take place anywhere and anytime through a variety of delivery systems.
- That the college is a resource for cultural awareness opportunities and community service.
- In providing the opportunity for students, faculty, staff, and administrators to develop and realize their personal goals through education.
- In promoting the highest expectations for students, faculty, staff, and administrators, and maintaining high academic standards.
- In preparing students to function successfully in a diverse, multicultural, and global environment.
- In supporting, promoting, and participating in the economic development of the community.
- In providing a safe and secure learning and working environment.
- In preparing for a sustainable future and embracing change that benefits the college mission.
- In the effective and fair use of all college resources.
- In preparing students to work effectively in an increasingly technological society.

Purpose
As it fulfills its mission, the college is committed to responding to the cultural diversity of Broward County as the area expands. In support of its open-door policy, the college provides a variety of delivery systems and instructional modes to enable students to prepare for the future in accordance with their own individual abilities, needs, and interests. The college is also committed to providing special academic support services to students with disabilities. In its role as an institution of higher education and in its efforts to be a premiere teaching institution, Broward Community College is dedicated to fulfilling the following major functions.

1. To serve as an entry point for baccalaureate degree programs by providing the first two years of a four-year curriculum through a program of general education that includes communications, humanities, social and behavioral sciences, science, mathematics, wellness, computer competency, and international/intercultural awareness.
2. To prepare individuals for employment through a variety of specific programs in the general areas of business, management, and office systems; the health sciences; the engineering, construction, and mechanical technologies; computer technology; human and public services; natural and environmental resources; and aviation.
3. To provide economic development and continuing education that meets the needs of business, industry, the professions, and government. To enhance workforce development opportunities for individuals seeking to upgrade their skills to maintain employment, advance within their current field, change careers, or enrich their lives through lifelong learning programs.
4. To provide college-preparatory instruction for those students who need to enhance their basic academic skills prior to attempting college-level work, and to guide students whose first language is not English to the mastery of communication skills.
5. To serve as a cultural center for Broward County by providing a wide variety of quality visual and performing arts programs and activities that educate, entertain, enrich lives, and elevate the human spirit.
6. To provide international and intercultural educational experiences to help students develop perspectives that will enable them to function effectively in a multicultural environment and in an
interdependent world. To pursue linkages with educational institutions and agencies in other countries in order to provide for an academic interchange and promote the improvement of higher education on a global scale.

The college

Broward Community College provides higher education and technical and occupational training for the citizens of Broward County, its district by law. As the first public higher education institution in the county, Broward Community College functions as the principal provider of undergraduate higher education for the residents of Broward County. As one of the 28 public community colleges in the Florida system, Broward Community 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.

Through this wide variety of degree and certificate programs and continuing education courses, the college attracts a great diversity of students, including individuals planning to complete a bachelor's degree program, people seeking to acquire job-entry skills, employees desiring to upgrade skills for promotion or career change, and individuals seeking education for their personal enrichment. From high school students who enroll in a course to accelerate their college education, to retirees who return to education after decades devoted to other pursuits, a multitude of age groups is represented at Broward Community College. These culturally diverse students span the learning spectrum from developmental to gifted. The college's programs and services are designed to serve the community by meeting the higher education needs of all these individuals.

Serving as the principal entry-level institution for higher education in its district, the college is also: a source of cultural enrichment; a resource for community development, business, and industry; and an avenue for continued skill upgrading enhancement and retraining. As a public comprehensive community college, the college serves well its role as a significant segment of America's higher education effort.

The college's District Board of Trustees, the legal governing body for the operation of the college, serves as a corporate body with all powers necessary and proper for governance and operation. Trustees are appointed by the governor, approved by the State Board of Education, and confirmed by the Florida State Senate. The college operates under statutory authority and rules of the Florida Board of Education. The Division of Community Colleges, which is subject to the overall supervision of the Florida Board of Education, is responsible for statewide leadership in overseeing and coordinating the individually governed public community colleges. 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. Central Campus is situated on 150 acres in a traditional style college setting equipped with an aquatic complex and sports facilities. The campus has 27 buildings including the Buehler Planetarium and Observatory, the Ralph R. Bailey Concert Hall, the Fine Arts Theatre, the Institute of Public Safety, and the Student Affairs Center. In addition, the A. Hugh Adams Central Campus offers students the University/College Library, a research facility jointly funded by Broward Community College and Florida Atlantic University. The A. Hugh Adams Central Campus hosts two educational partners on site: Florida Atlantic University, Davie Campus; and the College Academy @ BCC, a high school associated with Broward County Schools.

North Campus

North Campus, which is adjacent to the Florida Turnpike at Exit 67 and south of Coconut Creek Parkway in Coconut Creek, covers approximately 113 acres. North Campus has 13 buildings that include the multipurpose Omni and the Broward Community College/North Regional Library. The newest facility is the 65,000 square-foot Student Services Building, which opened in the fall of 2000.

Judson A. Samuels South Campus

Located just west of the Florida Turnpike on Hollywood/Pines Boulevard at 72nd Avenue in Pembroke Pines, South Campus offers a full spectrum of college credit, community education, and technical education classes. The campus' 12 buildings sit on 103 acres. The campus also operates three partnership satellite centers: the Pines Center in the Academic Village at 16957 Sheridan Street, the Weston Center at 4205 Bonaventure Boulevard, and the BCC Automotive Training Center at Miramar at 7451 Riviera Boulevard. In addition, the campus is home to the Aviation Institute and the joint-use Broward Community College/Broward County South Regional Library. The Aviation Institute, located adjacent to North Perry Airport, offers seven FAA-approved curriculums and four degree programs. The program prepares students for FAA 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 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 a wide spectrum of credit and non-credit offerings designed to prepare diverse learners for numerous educational and career opportunities.

**Weston Center**

The Weston Center is located on the second floor of the Weston Branch Library and offers a wide spectrum of credit and non-credit courses. An 18-month fast-track Associate in Arts degree in Business Administration is also offered onsite to accommodate the busy lives of working adults.

**BCC Automotive Training Center at Miramar**

The BCC Automotive Training Center at Miramar covers 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 and serves as home to the college’s automotive programs.

**Willis Holcombe Downtown Center**

The Willis Holcombe Downtown Center is located in the heart of urban Ft. Lauderdale. Together in partnership with FAU, the BCC Holcombe Center forms the Higher Education Complex on East Las Olas Boulevard. The Willis Holcombe Downtown Center houses the college’s district offices as well as over 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 Willis Holcombe Center is surrounded by a rich array of cultural and municipal resources, including the Broward County Main Library, the Broward Center for the Performing Arts, the Museum of Discovery and Science, the Ft. Lauderdale Museum of Art, and the Riverwalk complex of shops and restaurants.

**Institute for Economic Development**

The Institute for Economic Development is located in the heart of downtown Fort Lauderdale within the Willis Holcombe Downtown Center at 111 East Las Olas Boulevard, Room 408. The institute offers a variety of continuing education courses, corporate training services, customized workforce development resources, and support groups and training for women transitioning into the workforce.

**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 supporters lobbied Washington 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.

The following autumn, the Junior College of Broward County opened its doors to its first class, 701 students, in buildings that were formerly part of Naval Air Station Junior High on the western portion of 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 Parris 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 Davie at the former Forman Field site in August 1963 and the college officially moved to the Central Campus.

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 its 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 crucial role in the community. Also in 1970, the 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, the architect of the state community college system. Dr. Holcombe had gone to Brevard from Broward, where he had served as a professor, executive assistant to President Adams, Central Campus academic dean, and then Central Campus provost. Dr. Holcombe served as president for 17 years, from 1987 to 2004. He initiated efforts that led to significant growth in enrollment, facility and program expansion. Dr. Holcombe 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. Succeeding him as the college’s fifth president is Dr. Larry Anthony Calderon, an expert in strategic planning who served as president of California’s Ventura College for the nine years preceding his appointment to BCC.
Beginning with a small university-parallel program, Broward Community College has expanded to serve the area’s needs by expanding its curricula to include a wide variety of technical and healthcare programs which, in turn, help assure the viability of Broward County.

**Equal Opportunity policy**

Broward Community College, as an institution of higher learning, is dedicated to the inculcation of the highest ideals of citizenship in a free society. The college seeks to set a proper example by complying with all relevant laws enacted at every level of government. 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 guaranteed consonant with appropriate laws without regard to race, color, age, national origin, religion, gender, marital status, disability, veteran status, sexual orientation or any other such factor.

All members of the faculty, staff, and student body are expected to assist in making this policy a practical reality. The college president is empowered to implement this policy through appropriate personnel and by use of effective procedures.

The vice president for financial and human resources shall monitor college salary schedules and recommend to the president changes necessary to ensure no discrimination on the basis of race, color, age, national origin, religion, gender, marital status, disability, veteran status, sexual orientation or any other such factor.

The equity coordinator is designated to coordinate compliance with civil rights protections. The equity coordinator for Broward Community College is the associate vice president for staff development and employee relations. Questions pertaining to educational equity, equal opportunity or equal access should be addressed to Patricia Senior, (954) 201-7371, psenior@broward.edu, 225 E. Las Olas Boulevard, Room 605, Fort Lauderdale, FL 33301.

**Policy prohibiting discrimination, harassment and retaliation**

Federal and state laws protect employees from discrimination and harassment based upon membership in a protected status. Federal and state laws also protect employees from retaliation based upon their opposition to discriminatory conduct and/or their participation in certain protected activities. BCC 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, religion, age, disability, sex, national origin, marital status, sexual orientation, or veteran status. Please see Broward Community Policy 6Hx2-3.34 for further details.
The Broward Community College District Board of Trustees brings together five community leaders with diverse backgrounds who provide dedicated leadership to the College and its activities. The Governor of the State of Florida appoints this group of outstanding local citizens. As the governing board of the College, they are the stewards of BCC’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 to transfer to four-year colleges and 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.
Admissions Procedures

Admissions Procedures

Admissions Categories

Admissions Chart
Admissions Procedures

Broward Community College gives all students the opportunity to pursue an education beyond high school. Admission to the College is guaranteed to high school graduates with a standard high school diploma, GED recipients, and home education graduates who complete the requirements and procedures outlined for admission. Students without a standard high school diploma may be admitted to specific vocational certificate programs. See page 102.

How to Apply

To gain admission to BCC all students must complete the following steps.

1. Request that your official high school and/or college/university transcript(s) from all institutions you have attended be sent to:
   
   Associate Vice President
   College Registrar’s Office
   Broward Community College
   225 E. Las Olas Boulevard
   Ft. Lauderdale, FL 33301

2. 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 at www.broward.edu
   • By mail with a check or money order attached to the application (see address below). Checks or money orders for payment of the application fee must be made payable to Broward Community 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.
   • In-person at the Cashier’s Office on any campus or center.

3. Submit a completed admissions application form, including residency affidavit, to the admissions office at any campus or center, or apply online at www.FACTS.org. Applications can be obtained from any Campus Admissions Office, the BCC website (www.broward.edu), or the last pages of this Catalog. You may also apply online, www.FACTS.org.

4. If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it is furnished to Broward Community College (BCC) so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish BCC 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.

5. Complete a financial aid application. To be considered for grants, scholarships, loans or work/study, you must file a financial aid application. You do not need to be admitted to the College to apply for financial aid. Applications are available at www.broward.edu. Remember to use our school code, 001500.

NOTE: Students with transcripts from a university outside the United States must submit their transcripts with a commercial evaluation and translation to English. All transcripts need to be received no later than thirty days after the start of the initial term of enrollment. See page 66 for additional information.

6. Complete any required skills assessment. Provide approved test scores for placement purposes or take appropriate placement test offered by the College. (See admission categories, below, for specific requirements.)

7. Complete the mandatory New Student Orientation that is required of all first-time in-college-students. Students may choose to attend an on-campus session or complete the cyber orientation at www.broward.edu.

8. See an Academic Advisor. Newly admitted students are required to meet with an Academic Advisor to develop an educational plan that will guide them through their college career, indicating which courses to take and when to take them.

9. Register for classes. Students register for classes each semester based on their assigned appointment times. The registration dates are listed in Catalog calendars and the class schedule. For information on how to register see page 43.

10. 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:

   • In-person, at the Cashier’s Office on any campus or center.
   • By mail with a check or money order (see address, above).
   • Online at: www.broward.edu

11. Obtain a BCC identification card and set up an email account. All students who are pursuing a degree, certificate or diploma must obtain and carry a BCC photo identification card. This I.D. card may be obtained in the Student Life area on each campus/center. It is used for identification, for verification of BCC status, for using College
services such as libraries and Learning Resource Centers, and for gaining access to other BCC facilities.

All students should set up a BCC student email account. This free service allows students to send and receive email messages and schedule appointments. Much of the communication with faculty, staff and administrators is done with electronic communications. Email accounts can be set up at www.broward.edu by clicking on email accounts.

Acceptance of Applicants

Upon completion of all admission forms and assuming eligibility, the applicant will receive an acceptance letter from the admissions office. Provisional admission status may be granted if all transcripts have not been received; however all such documents must be received no later than thirty days after the start of the initial term or the applicant may not register for future terms.

The College reserves the right to require a physical, psychological, and/or psychiatric examination from an applicant, if it seems to be in the best interest of the student and the College. Expenses for such an examination or assessment are the responsibility of the applicant.

Students presenting falsified information may be suspended, and credit for payments made, forfeited.

Admissions Categories

To meet the needs of BCC’s diverse population, the College has admission categories that address students’ goals and their educational backgrounds.

Degree Seeking Students

Students who intend to complete an associate degree (A.A., A.S., or A.A.S.), must have a standard high school diploma or GED, or must be home education graduates who complete requirements in accordance with Florida Statutes. To be admitted, degree seeking students must submit official transcripts from high school and all colleges attended, within 30 days of the start of their first term. The applicant is responsible for verifying that BCC has received transcripts. Transcripts must be received in order to insure future registration.

Applicants must also provide placement information, as follows.

First-time-in-college students must present placement test scores (See Placement Testing, page 42).

Transfer students must present placement test scores, complete placement testing or submit transferable credits in English and Mathematics courses that satisfy the General Education requirements.

Degree Holding Students must present an official transcript from the regionally-accredited institution from which the degree was awarded. Transcripts from out-of-country universities must be commercially translated and evaluated before being submitted. Contact campus registration offices for more information.

Certificate/Applied Technology Diploma Students

Requirements for students who intend to complete a Vocational Certificate, Technical Certificate or Applied Technology Diploma vary from program to program. Some programs do not require a high school diploma. For a listing of the specific requirements for certificate and applied technology programs, refer to page 99 Program Admission Requirements. 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 CPT)

See page 25 for additional information.

Non-Degree/Non-Certificate-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:

- are not required to submit placement test scores;
- are required to adhere to pre-requisites, which may create a need for assessment or transcripts;
- may register for no more than 12 semester hours without declaring intent toward a major and completing the full admission process, including assessment, transcripts, etc;
- are not eligible for financial aid.

Returning Students

Returning students who have not attended BCC for two or more major semesters (does not include summer term) must submit a Re-Entry Application to update personal information, (which includes your valid SSN or TIN number, see additional information under the section labeled “How to Apply” item number 4 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 College Registrar. If the student has attended another institution in the interim period, an official transcript must be submitted from that college or university with the Re-Entry Application. The applicant must be in good academic standing at the last college attended at the time of re-entry. There is no fee for the Re-Entry Application.

Transfer Students

Transfer students are students who have previously attended another college or university and wish to continue their education at BCC. Transfer students must provide official transcripts from all previously attended colleges or universities. Transcripts should be sent to Broward Community College, 225 East Las Olas Blvd., Fort Lauderdale, Florida 33301, within 30 days of the start of the first term of enrollment.

Transfer students should also observe the following requirements:
• Transferring students who have fewer than 24 credits at the college level must have official transcripts from their high school sent to BCC.
• Transferring students who are not in good academic standing (on suspension or dismissal) must see an Academic Advisor before submitting an application for admission.
• Transferring students who have attended a college/university outside the United States are required to provide a commercial translation and evaluation with upper-level course identification of all course work completed. Requested documents must be presented within 30 days to register for future terms.

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 Community College. These students do not intend to transfer to, or seek a degree or certificate at BCC. These students are required to present the following:

• A completed BCC application (which includes your valid SSN or TIN number, see additional information under the section labeled “How to Apply” item number 4 in this chapter), and non-refundable application fee.
• A letter from the home institution indicating that the student is in good academic standing and stating specific courses the student is being granted permission to take.

Transient students should note that some BCC courses may have pre-requisites 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 BCC.

High School Students
Broward Community College offers three Accelerated Learning Opportunities that enable qualified high school students to take courses while earning a diploma. These programs include Early Admission, Dual Enrollment, and Credit in Escrow. See Accelerated Learning Opportunities on page 36 for additional information.

Health Science Students
All applicants seeking admission to programs in Health Sciences must complete the Health Science admission process in addition to completing the BCC admission procedure. This includes completion of a Health Science application, paying an additional non-refundable Health Science application fee, and meeting pre-requisite course requirements.

Continuing Education Students
Admission and registration for Continuing Education and community service non-credit courses is specified in the non-credit course schedule. A special application is required and is published in the Continuing Education term schedule.

International Students (F-1 Student Visa status)
Broward Community College embraces a diverse, multicultural atmosphere, welcoming students from all over the world. Students must contact the Admissions Office three to six months in advance to obtain an International Student Admissions Packet. The packet contains the required information for admission to BCC and should be submitted by the deadline shown in the packet. See page 28 for additional international admission information.
### Admissions Procedure Chart

<table>
<thead>
<tr>
<th></th>
<th>Application</th>
<th>International Student Application</th>
<th>Non-credit Application</th>
<th>Application fee</th>
<th>Re-entry Application</th>
<th>Health Science Application &amp; Fee</th>
<th>Early Admission Form</th>
<th>High School Transcript/GED</th>
<th>Official College Transcript</th>
<th>CPT, ACT, or SAT</th>
<th>TOFEL Scores</th>
<th>TAGE</th>
<th>Health Insurance</th>
<th>Certificate of Financial Ability</th>
<th>Transient Letter &amp; Unofficial Transcript</th>
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### Admission Procedure

- **X1**: If the transfer student has less than 24 credits than the student must also submit a high school transcript.
- **X2**: Students from out-of-country schools need to submit diplomas or test scores.
International Student Admissions
and Additional Information

Admissions Requirements

Other Requirements
International Student Admissions

International Students
(F-1 Student Visa Status)

Broward Community College embraces a multicultural, diverse student environment and encourages applications from students all over the world. International applicants should contact the International Admissions Coordinator at (954) 201-7468 three to six months in advance of the semester they hope to begin studies at BCC to obtain an international student admission packet. The packet contains general information and the specific requirements for admission to BCC. Deadline dates are included in the packet.

Admission Requirements

The following documents are required for admission to BCC.

1. A completed International Student Application, along with a non-refundable $75.00 application fee.
2. If a student has a Social Security Number (SSN) or a Taxpayer Identification Number (TIN), federal law requires that it be furnished to Broward Community College (BCC) so that it may be included on all documents filed by the institution with the Internal Revenue Service. Students who fail to furnish BCC 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.
3. A copy of a high school diploma or its equivalent: GED or four academic passes in GCE, CXC, BGCSE or HKCE exams in General Proficiency. Secondary school diplomas do not have to be translated to English with the exception of Hebrew, Arabic or Asian. All applicants must have the equivalent of a United States high school diploma and college preparatory program.
4. If you have attended a university outside the U.S., please attach a copy of the original documents in the language of your country, along with an official translation from a certified translation company. University transcripts must have a cumulative GPA of 2.0 or its equivalent. Within 30 days of admission, a course by course commercial evaluation is required of all university work completed.
5. Official transcripts are required from all U.S. colleges/universities attended. If an applicant is transferring from a U.S. university, a minimum overall GPA of 2.0 is required. Transfer students are required to submit a copy of the form I-20 from the last institution attended along with verification of full time status.
6. Evidence of English proficiency if English is the applicant’s second language. All applicants must provide a copy of the Test of English as a Foreign Language (TOEFL). A minimum TOEFL score of 500 (written) or 173 (computerized) is required for admission to BCC. We also accept the IELTS test with a minimum grade of 5.5 or better. Students who are in the United States may take the BCC-ESL placement test along with a writing sample. Testing will be done only after the application is submitted and the application fee is paid.
7. A statement of financial support. All international applicants must show that they have sufficient funds to cover the “total cost of education” (tuition, fees, books, living expenses, transportation, and incidental expenses). Currently, the total cost of education is $18,000 in U.S. dollars. Proof of the availability of $18,000 per full calendar year for all expenses is mandatory.
8. AFTER ADMISSION, applicants must show proof of health insurance.

After Receiving Application
Within two to six weeks, the International Office will provide the following:

1. an acceptance letter with the I-20 eligibility form; or
2. an acceptance letter indicating the student must contact the International Admissions Office regarding his/her visa status; or
3. a letter requesting additional information, indicating which items are missing; or
4. a letter of denial, indicating the reason for the denial.

International students obtaining the student visa in their country cannot enter the U.S. more than 30 days before the first day of classes. Once in the U.S., the students will be able to complete the on-campus advisement and registration process. International Students are requested to report directly to the International Student Advisor/Counselor on the campus the student plans to attend for placement testing, advisement, and registration. Placement testing scores will determine if the student must enroll in developmental courses in Math, Reading or English. These courses carry credit, but do not apply towards a degree.

Other Requirements

International students must make satisfactory progress towards their degree objective each term to comply with immigration/legal requirements. This includes the following:

- Successfully completing at least 12 semester hours during the Fall and Winter terms.
- Successfully completing a minimum of 24 semester hours in one academic year.
- Maintaining an overall 2.0 grade point average.
- Maintaining lawful F-1 visa status with the U.S. Citizenship and Immigration Services. Students may not enroll beyond the expiration date of their I-20 form.
- Compliance with all BCC rules and regulations.
Students who do not meet the above regulations will not be permitted to register for subsequent terms.

**Florida Residency**
Students in F-1 status may NOT be deemed Florida residents for tuition purposes. They are considered temporary residents of the U.S.

**Federal Income Tax**
International students must file an income tax return each year. Form 8843 is required if the student has not worked, and forms 8843 and 1040NREZ are required if the student has worked. International students should contact the local Internal Revenue Office for further information.

**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**
BCC does not provide, supervise, or recommend student housing.

**Financial Assistance**
BCC does not provide financial assistance to international students. However, some International Student Scholarships are available after completion of 12 credits at BCC, if certain requirements are met. Contact the International Admission Coordinator or an International Student Advisor for further information.
Health Science Programs and Policies

Health Science Education Programs

Health Science Admission Requirements

Health Science Program Policies
Health Science Education

Health Science Education has two major academic divisions: Programs for Initial Professional Preparation and Programs for Post-Professional Development. Programs that prepare students for initial professional preparation into specific health professions include: Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography (Ultrasound), Emergency Medical Technician, Health Information Management, Health Services Management, Massage Therapy, Medical Assisting, Nuclear Medicine, Nursing RN Program, Paramedic, Physical Therapist Assistant Technology, Radiation Therapy Technology, Radiography (X-ray), Respiratory Care, and Vision Care Technology 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. The Department also offers Advanced Technical Certificates in the following areas: Basic Perioperative Nursing, Coronary Care Nursing, Critical Care Nursing, Graduate Nurse Intern, Home Health Nursing, Manual Techniques, Multi-skilled Healthcare Professional, and Vascular Sonography.

Health Science Admission Requirements

To apply for admission into a Health Science Program, students must do the following:

1. Complete the admission requirements to the College (see page 22)
2. Complete all college preparatory requirements if seeking a Health Science degree and the pre-requisite requirements for the specific Health Science program they wish to enter. Science courses completed more than 10 years ago must be evaluated to determine if the courses will need to be repeated. Students should seek approval from the appropriate Associate Dean or Program Manager.
3. Complete a Health Science Admissions Application for the desired Health Science program(s). A separate application must be made for each program. Applications may be obtained on line at www.broward.edu/locations/chse/PDF/forms/index.jsp or by calling (954) 201-7350. Each application for admission to a particular program must be accompanied by a $20.00, non-refundable Health Science application fee. Checks are to be made payable to Broward Community College.
4. Submit electronic copies of transcripts for all previous college work (excluding Broward Community College) with the Health Science application to the Office of the Associate Vice President/District Registrar, 225 E. Las Olas Boulevard, Fort Lauderdale, FL 33301. Students should see an Academic Advisor to determine transferability of credits and additional coursework needed. Each program has defined a specific minimum grade point average as an admissions requirement. Refer to the specific programs.
5. Activate their free BCC e-mail address. Information about setting up the e-mail account can be found at www.broward.edu.

Most Health Science programs require completion of Pre-Health Science Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474, CAE 0258 and CAE 0476) after submitting the Health Science application and prior to entering the program. 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.

Selection Criteria

Students are selected into programs based on established criteria for each program in accordance with Equal Access/Equal Opportunity standards. The Admissions Office admits all students based on established criteria. Contact the admissions office at 954-201-6782, 954-201-6735, or 954-201-2892 for the specific criteria. No exceptions are made.

Number of Students Admitted

Most health science programs admit students once each year. 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

Students are notified via their BCC email of acceptance into the respective programs. In certain instances, a student may postpone entry into the program only once. A student who fails to begin the program, when notified, may petition for a time-limited deferral through Academic Standards.

It is strongly recommended that students enroll in College Success Skills, SLS 1501 prior to entering a Health Science Program.

Performance Standards for the Health Sciences

Students must meet certain standards of performance in order to progress in their course work and ultimately graduate from any of the respective health science programs. These standards include meeting certain physical demands associated with the profession. Please review the requirements for the program of interest at www.broward.edu/programs, and search for the program of interest.

Health Science Program Policies

Criminal Background and Drug Screening

Students applying to a health science program are subject to criminal background and drug screening which is required as a prerequisite to attending any
Clinical attendance is mandatory. The student must student’s responsibility to know the attendance policy. Each instructor determines the attendance policy for Broward Community College. She/he has completed 25% of the coursework at she/he has completed 25% of the coursework at Broward Community College. Students who wish to transfer Health Science credits from another college should contact the appropriate Health Science Associate Dean or Program Manager. Required Disclosures An applicant who has been convicted of a felony or the subject of an arrest pertaining to a controlled substance should confer with an authorized representative of the regulatory/licensing agency to determine eligibility for future credentialing and practice. All Health Science Education graduates are subject to the laws, policies, and procedures of their respective regulatory/licensing boards. The College cannot assure licensure/certification. Health Examination A Medical History and Physical Health Form must be completed at the time specified by the program. Final acceptance/continuation to the program will be contingent upon the results of the medical form. No student may enroll in a clinical course without the permission of the associate dean. 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 program’s handbook. Withdrawal/Failure Any Health Science student who fails or withdraws from a Health Science program during his/her first semester shall re-apply to the program. Re-admission will be based on the criteria and procedures in effect at the time of re-admission. Additional requirements may be applied to students who were previously failed. If a student fails a Health Science course or fails to maintain the appropriate GPA after the first semester, he/she shall meet the re-admission policy and procedures of the program. The student may have to wait for the availability of space. Transfer Students who wish to transfer Health Science credits from another college should contact the appropriate program for a copy of the procedures and policies. No student can obtain a Health Science degree unless he/she has completed 25% of the coursework at Broward Community College. Attendance Each instructor determines the attendance policy for each class, and communicates this policy in the course syllabus at the beginning of each semester. It is the student’s responsibility to know the attendance policy. Clinical attendance is mandatory. The student must contact the instructor or clinical area in case of an emergency or illness.

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

The course syllabus outlines the 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 program’s handbook.

Transportation Students must have reliable transportation to and from Broward Community College and to and from an assigned clinical facility. The College or clinical facility provides no transportation. The student assumes all risks and responsibilities for travel to and from clinical sites and field trips.

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

Liability Insurance All health science students are required to carry professional liability insurance each term that they are in a clinical setting. The fee for liability insurance coverage is non-refundable and charged when the student registers for the first clinical course during an academic year.

Substance Abuse Policy Statement 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 material, 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.

Students may be asked to leave a clinic with an unexcused absence if they arrive smelling of alcohol. Repeated offenses may result in dismissal from the program.

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

Withdrawal/Failure Any Health Science student who fails or withdraws from a Health Science program during his/her first semester shall re-apply to the program. Re-admission will be based on the criteria and procedures in effect at the time of re-admission. Additional requirements may be applied to students who have previously failed. If a student fails a Health Science course or fails to maintain the appropriate GPA after the first semester, he/she shall meet the re-admission policy and procedures of the program. The student may have to wait for the availability of space.
Continuation in a Health Science Program
Continuation in a Health Science Program is dependent upon maintaining the course grades and GPA as specified by each program. The programs also reserve the right to discontinue a student’s enrollment at any time during the program, if in its judgment, the student does not possess the qualifications necessary for the selected Health Science career or demonstrates behavior deemed to be potentially detrimental to a patient’s safety and well being.

Readmission
Each Health Science program has established specific readmission policies. The student who wishes re-admission consideration should check with the appropriate program for specific criteria and procedures.

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.

Changing Requirements for Graduation
The Health Sciences reserve the right to change any of the rules and regulations of the Health Science programs at any time, including those related to admission, instruction, and graduation. All such changes are effective at such time as the proper authorities determine, and may apply not only to prospective students, but also to those who already are enrolled in a Health Science Program. All enrolled students will be notified in writing of such changes as they occur.

Catalog Requirement
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), the student must meet the requirement of either the Catalog in effect at the time of re-enrollment or the one in effect at the time of graduation.
3. Health Science students may also graduate under the catalog year in which they entered the Health Science program.

Students should see an Academic Advisor or Counselor every term.

Curriculum and Policy Changes
The Health Science polices and curricula contained in this catalog and program handbooks are not to be regarded as an irrevocable contract between the student and the College. Health Sciences reserves the right to make and designate the effective date of changes in policies curriculum and/or other regulations at any time such changes are considered desirable or necessary.

Health Science Core Requirement and Waivers
Most health science certificate and degree students must enroll in the health science career core courses. The courses are HCP 0130, CAE 0382, CAE 0474, CAE 0299, CAE 0258 and CAE 0476. A waiver and/or substitution can be attained from the Health Science Continuing Education and Workforce Development Department located on Central Campus, building 8.

These courses are substituted or waived only if:
1. The 75 hour Health Care Career Course (HCP 0130) or equivalent course was successfully completed at a SACS accredited college or university, or Florida Department of Education health occupation program. Successful completion must be documented with a transcript showing a grade of pass or “C” or higher. A student with a current Florida license in a health care profession may have the course waived or substituted. A student must submit an official (preferably electronic) transcript, state or national license/certification and letter verifying recent in-field employment.

2. Required core courses equivalent to HIV/AIDS (CAE 0382), Domestic Violence (CAE 0474), Basic Life Support for Health Care Providers (CAE 0299), Prevention of Medical Errors (CAE 0258) and TB/OSHA/Hepatitis (CAE 0476), can also be considered for a course waiver and/or substitution. These course will only be considered if
   a. The course was taken at an area hospital, or State of Florida/federal government health care facility as a condition of employment,
   b. The course was approved for continuing education by a Florida health care licensing board and the hospital/government agency provider is on the certificate of attendance,
   c. The course was the same number of hours as BCC, was completed within 2 years and will still be current at the time of admission into the health science program, and
   d. Verification of hospital/government agency employment at the time of requesting waiver/substitution.
Accelerated and Flexible Learning Opportunities

Accelerated Learning Opportunities

Dual Enrollment
Early Admission
Credit in Escrow
Advanced Placement
CLEP
International Baccalaureate
Tech Prep
The College Academy

Experiential Learning

Armed Services Educational Credits

Flexible Learning Opportunities

Online Courses
Blended E-Learning Courses
Video-based Courses
Accelerated and Flexible Learning Opportunities

High School Accelerated Opportunities

Eligible high school students may apply for admission to BCC and enroll in college-level courses to increase learning and shorten the time needed to acquire a college degree. Special application and approval procedures apply to students in all BCC accelerated programs. Written authorization from the principal, guidance director, and parent or guardian is required for Dual Enrollment, Early Admission, and Credit in Escrow. 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 BCC, a re-entry application, changing the admission status, must be completed.

To Apply
Students who wish to apply to BCC 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 Florida Entry Level Placement Test (CPT). (The CPT is administered in the Testing Centers at each BCC 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 BCC courses for high school and college credit. To be eligible for the program, including technical dual enrollment, students must have an unweighted cumulative grade point average of 3.0 or higher and appropriate SAT, ACT, or CPT scores. Courses are offered at BCC's campus locations and some may be offered at high school locations. Students may register for up to eleven credits per term.

Early Admission
High school seniors can enroll full time in college and receive high school and college credit for courses. Students must enroll in two consecutive terms carrying twelve college-level credit hours each major term, and maintain a grade point average of 2.0, in order to receive a high school diploma. To be eligible for the program, the student must have an unweighted overall grade point average of at least 3.0 or higher and appropriate SAT, ACT, or CPT scores.

Credit in Escrow
High school students who have an unweighted overall grade point average of at least 3.0 and appropriate SAT, ACT, or CPT scores may be permitted to enroll for a maximum of six semester hours of college courses each term to add depth or breadth to their academic programs. Such credits will not be used to satisfy high school diploma requirements and the student will pay appropriate fees, including textbooks. Earned college credits will be held in escrow until the student graduates from high school.

Advanced Placement
BCC 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 Community 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 at www.collegeboard.com/ap; more information regarding advanced placement courses and appropriate passing scores is also available at www.broward.edu.

Recording Fee
Broward Community 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 course will be listed on the student’s transcript.

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 Community College, but do not wish to become BCC students, must submit a BCC non-credit admissions application to the Admissions/Registration Office. Individuals wishing to become BCC students and receive CLEP credit must submit an admissions application with payment of the non-refundable application fee ($35.00). Former BCC...
dual enrollment students must submit a re-entry application but do not pay the application fee. For more information visit http://www.collegeboard.com/clep. BCC’s CLEP code number is 5074.

CLEP tests are administered at Broward Community College throughout the year at any of the three campus testing centers. CLEP testing times/dates are available at the testing centers and on the web at http://www.broward.edu/stuserv/testing/clep.jsp.

Bright Futures students must be advised by their Florida home college or university prior to registering. Students are notified by mail of the course(s) and credits for which they are eligible and this information is recorded on the student’s permanent academic records. Students are awarded credits only; they are not given letter grades in CLEP courses, and CLEP courses are not included in the GPA.

CLEP credit cannot duplicate regular college course credit already earned. Dual Enrollment credit, or other credits earned through examination. The CLEP tests are offered in addition to the BCC Prior Experiential Learning Program, which provides for the assessment of prior learning and awarding of credit for many other BCC courses. Contact the College Registrar’s Office for additional CLEP information.

Other Nationally Standardized Tests
Broward Community 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 Broward Community College. Students seeking credit for Dantes or Excelsior College exams at Broward Community College 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 work in many countries’ postsecondary systems. Holders of 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. More information about the IB program is available at www.ibo.org. Further information regarding the IB courses and appropriate passing scores is also available at www.broward.edu.

Tech Prep Program
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 Community College or technical center credits. Students are encouraged to take rigorous academic courses along with the Tech Prep 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 Community College and Broward County Public Schools. Credit will be awarded once the student has been accepted to Broward Community College and enrolled in a program of study. The credits will be valid for 18 months after high school/technical center graduation.

For more information about Tech Prep, please contact the Broward Community College Tech Prep Office at 954-201-6955 or by emailing techprep@broward.edu.

Tech Prep Program Areas
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

The College Academy
The College Academy, a joint venture between the School Board of Broward County and Broward Community College, is an accelerated college program located on the central campus of Broward Community College 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.

For further information, contact The College Academy @ BCC Central at (754) 321-6900 or visit www.broward.k12.fl.us/collegeacademy.

**Experiential Learning**

The Experiential Learning Program, 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 BCC 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 Program.

**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 College faculty members responsible for the courses for which students wish to receive credit determine the method of assessment.

Experiential learning credits are not available for all BCC courses. Students who have been admitted to BCC, and who have decided on an academic program, may challenge courses through the Experiential Learning Program. 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 Experiential Learning Coordinator, who verifies that assessment documentation is complete and informs the 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 BCC.

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.

For more information, contact the Experiential Learning Coordinator at 954-201-7668.

**Armed Services Educational Credits**

Broward Community College will grant credit for military education that has been evaluated and recommended as suitable for post-secondary 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).

**Flexible Learning Opportunities**

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

Flexible Learning courses include fully-on-line courses delivered using the Internet, courses that combine on-campus with online learning, and courses that are delivered using video tapes or printed materials. All Flexible Learning courses have required textbooks and may also use CD-ROMs, study guides or other instructional materials.

Flexible Learning courses may require limited on-campus meetings for orientations, labs, test reviews and proctored tests. Required meeting dates are listed in the course schedule and in course syllabi. Check your course syllabus for dates, times, and locations of required on-campus tests or labs.

All Flexible Learning courses are college credit courses equivalent to those taken in the standard
contact hour format and are applicable to most A.A. degree transfer programs, as well as some A.S. and technical certificate programs. The cost of tuition is the same as for standard courses. However, students enrolled in Flexible Learning courses may be assessed special fees. Students may take Flexible Learning classes exclusively or in combination with on-campus courses. Students are advised to see an academic advisor before selecting their classes.

Students can complete all general education requirements for the A.A. degree as well as requirements for some A.S. and technical certificate programs using flexible learning courses. Visit http://www.broward.edu/FCCSC/registration/classsch edules.jsp or check the Flexible Learning section of the printed BCC Course Schedule to see a schedule of all Flexible Learning courses.

Enrolled students may register for Flexible Learning courses in person at one of our campuses or via BCC’s web site at http://www.broward.edu.

Online Courses
Online courses are a great way for students to complete degree requirements while juggling work and/or family responsibilities.

Students can complete all general education requirements for the A.A. degree and a substantial number of program requirements for the A.S. degree (Nursing), the A.A. degree (Education), the A.A.S. degree (Business Administration), the Office Support Technical Certificate and the Office Specialist in an on-line format. To see if online courses might be right for you, visit http://www.broward.edu/flexible/ready.jsp

Before the start of the semester, students registered for blended e-learning classes, should visit http://www.broward.edu/webct/lists.jsp, view blended course listings, then click on the information icon to obtain information about the blended-learning courses in which they are enrolled.

Video-based Courses
Video-based courses deliver content using professionally produced video programs combined with text books, and study guides. They are a good choice for learners with good time management and independent study skills. Students can complete several general education requirements for the A.A. degree through video-based courses. Visit http://www.broward.edu/flexible/readiness.jsp to see if video-based courses might be right for you.

For video-based courses, students must obtain a free course information packet from the bookstore on the campus before their course is scheduled to meet. Students should read the information packet BEFORE the start of the semester. Students can obtain required video materials from the Learning Resource Center, located in the Library on the campus offering their video-based course(s).

For more information about the Flexible Learning Program call (954)-201-6564, or visit the Flexible Learning web site at http://www.broward.edu/flexible
Placement, Advisement, and Registration

Placement Testing

Academic Advisement

Registration Options

24/7 Online Tutoring For BCC Students

Additional Registration Facts
Placement, Advisement, and Registration

Placement Testing

Associate Degree Programs
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.

College Preparatory Courses
Students whose placement scores do not meet the required college level must improve their skills before enrolling in college-level 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 up to three times. The third attempt will be subject to the full cost of instruction. See Maximum Attempts per Course, page 67.

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

Students can seek methods other than the College's preparatory courses for improvement of skills. For a list of private providers contact any campus Academic Advisement Office.

First-time-in-college students must present scores, no more than two years old, on one of the following State-approved placement tests: Scholastic Aptitude Test (SAT), American College Test (ACT), or Florida College Entry Level Placement Test (CPT).

If a student's score falls below the cutoff, the student must enroll in and successfully complete the appropriate college preparatory course prior to enrolling in college level courses. Students enrolled in college preparatory courses may enroll in certain other college level courses concurrently.

Transfer students will be placed 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.

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.

Academic Advisement

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 they will complete degree requirements for graduation. 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 BCC.

All students are strongly encouraged to have an educational plan. First-time-in-college students must meet with an academic advisor or counselor before they register for classes. Transfer and returning students will also find it very helpful to have an educational plan as they progress through their college career.

Orientation

All first-time-in-college students enrolling at BCC are required to complete an orientation program as part of the advisement and registration process. The program provides students with important College information that will aid them in meeting their educational goals.
24/7 Online Tutoring for BCC Students

Broward Community College students now have 24/7 online tutoring access! Smarthinking provides you with online tutoring services by offering real-time online tutoring and homework help for core courses and skills up to 24 hours a day, seven days a week. You will be able to use the paper reading service and access assistance in writing across all subjects, as well as tutoring help in math (in English and Spanish), accounting, statistics, economics, and science, plus a full range of study resources, including writing manuals, sample problems, research tools, and study skills manuals. Students can access the service from wherever they have a connection to the Internet.

To access your online tutoring help, Go to the Broward Community College homepage (www.broward.edu). Sign in to myBCC with your login and password; on the myBCC webpage, click on the link to Smarthinking. You will now be taken to Smarthinking – your access to online tutoring.

To start a tutoring session:
1. Click on the drop-down menu under the “connect to an e-structor now!” section (the purple one).
2. Choose the course you need tutoring in; this will open up a whiteboard with the tutor so you can start the live tutoring session.

To save archived sessions:
All of your activity in Smarthinking is archived on the server. After your session is complete, your whiteboard will be saved to your “file cabinet” at Smarthinking.
1. Click on the “Inbox” in your file cabinet. It is at the bottom of the Smarthinking home page. You will see your “live” session saved as a picture.
2. Click on the session that you have completed. It will open in a new window. Right-click on the image with your mouse and save it to your computer/disk, etc. as a picture. You can now save or email your session as you wish.

After you view your live session once, it is removed from the “Inbox” and placed in the “Archives” section of the file cabinet. If you want to view it again, look for it in the “Archives” section.

If you need any assistance with accessing your Smarthinking account, please go to the Learning Resource Center for your campus, or email Jackie Loftus at jloftus@broward.edu.

Registration Options

Students receive priority registration based on the number of credits earned. There are two ways to register for courses at Broward Community College. Students may register online or in person at the campus Registration Offices.

Online Web Registration
Register by the web by following nine easy steps.
1. Type in the URL www.broward.edu.
2. At “myBCC”, enter your student ID and PIN number. (Your student ID number is usually your Social Security number with no dashes. Your PIN number is initially set to your birth month and birth year: MMYY).
3. Click on registration.
4. Select a term.
5. Search for classes by reference number(s) or open classes by clicking on the appropriate circle.
6. Select your class, then click “add.” To remove a class, click on the common course number box.
7. When you finish selecting classes, click “save” to complete registration.
8. Print your schedule and payment information, click on the “logoff” box.

PIN Number
Your personal identification number (PIN) is the door into “myBCC” at Broward Community College. Your initial PIN is set at your birth month and year (MMYY). It is important that you not reveal your PIN number to anyone. If you suspect that your PIN is not secure, you may change your PIN online to ensure the security of your records. If you have lost or forgotten your PIN number, or if the default PIN does not appear to work, you must present a picture ID to acquire the correct code, at any of the campus Registration Offices.

Additional Registration Facts

Schedule of Classes
Schedules are available on-line at the BCC website www.broward.edu.

Registration Dates
Registration dates determine when you are allowed to begin registering for classes. Your priority is based upon the number of credit hours earned toward graduation. Students can view their appointment dates on-line by accessing “myBCC”. Students are strongly encouraged to print a degree audit and meet with an advisor/counselor prior to registration appointment dates.

Open Registration
New and returning students are eligible to register based upon the established date.

Schedule Modification
During registration periods, students may add courses until the actual class begins if the course is not full. Students may “drop” courses until the last day of the “drop” period published in the catalog. Students may “withdraw” from courses until the last day of the “withdrawal” period as published in the catalog.
Registration Holds
Students’ records may have a “hold” that prevents them from registering for classes. Typical reasons for a “hold” include missing transcript from high school or previous college attended, lack of placement scores, incomplete records, or requirement to meet with a college official. Students with unmet pre-requisite or co-requisite requirements may be restricted from registering for courses that require such pre- or co-requisites.

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 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 taken after the drop/add period.

Dropping a Class
Students wishing to drop a class may do so by using the web or in person at any campus Registration Office. This must be done by the established last day to drop a class. See the Schedule of Classes for deadline dates each semester. Tuition will be refunded for courses dropped by the published 100% refund deadline. The course will not appear on the student’s transcript.

After this deadline, a student wishing to drop a course must withdraw, and a “W” will appear on the transcript. Students may petition for a refund with documented significant extenuating circumstances. Petitions will be considered on their individual merit by the campus administrators.

After the deadline for withdrawal, students may not withdraw themselves, but must follow the instructor’s syllabus concerning withdrawal after the last day to withdraw. See the catalog calendar for these important deadlines each term.
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 Community College. It is subject to change within the academic year covered by this catalog. The current fee schedule is published each term in the Schedule of Classes.

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

Payment can be made with cash, credit card (VISA, MasterCard, Discover, and American Express) or personal check made payable to Broward Community College. Checks must be drawn on a U.S. bank. No counter (starter) checks will be accepted.

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.

Degree Programs and Technical Certificates
Per credit hour:
Florida Residents
- Tuition Fee: $53.80
- Student Activities Fee: 5.35
- Student Financial Aid Fee: 2.65
- Capital Improvement Fee: 5.00
- Parking Fee: 3.00
- Total: $69.80

Non-Residents
- Tuition Fee: $53.80
- Out-of-State Fee: 161.45
- Student Activities Fee: 5.35
- Student Financial Aid Fee: 10.75
- Capital Improvement Fee: 7.70
- Parking Fee: 3.00
- Total: $242.05

Vocational Certificate Programs (PSAV)
Per credit hour:
- Tuition Fee: $50.10
- Out of State Fee: 150.00
- Capital Improvement Fee: 2.50
- Capital Improvement Fee/Non-Resident: 10.00
- Parking Fee: 3.00

Continuing Education
Per credit hour:
- Supplemental Vocational: $66.00
- Parking Fee: 3.00

Additional Course Fees
Additional special fees are charged for some courses and laboratories. Special fees are shown with individual course information in this Catalog.

Parking Fee
All students will be assessed a parking fee as part of their schedule which will allow them to receive a parking sticker and park at any campus or center location for the term paid. Students may request an exemption from the parking fee. Students who receive the exemption will not be assessed the parking fee, will not receive a parking sticker and will be subject to the same traffic rules, regulations and fines should they park on campus after receiving the exemption. Those students who normally attend BCC on a full exemption (i.e. dual enrollment, homeless, foster child, etc.) will receive a parking sticker.

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 each academic year the following at the time of registration.

Health Science Education Accident Insurance $9.95
Health Science Education Liability Insurance (dependent on program) $12.00 or $17.50

Graduation Fee
In accordance with Florida Statute 1009.23, a fee will be assessed as authorized by Broward Community College Policy 6.13, Student Fees and Charges.

Fee Payment Information
Fees must be paid by the assigned fee payment due date. There are three ways to pay for classes: by American Express, Discover, Visa or MasterCard on the web, by mailing a check to the Willis Holcombe Center Cashier’s Office. Checks must be drawn on a U.S. bank, no counter (starter) checks will be accepted, or by paying with cash, check, American Express, Discover, Visa or MasterCard in person at a campus Cashier’s Office. Detailed instructions are provided in the Schedule of Classes and on BCC’s home page at www.broward.edu.
checks must be made payable to broward community college and include the student's social security number. checks or money orders for payment of student fees must be made payable to broward community 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. if the payment is by credit card, the authorized user must be present. 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.

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.

**payment of student accounts due to the college**

bcc prohibits the release of transcripts to, or the issuance of a certification of completion or diploma to bcc prohibits the release of transcripts to, or the issuance of a certification of completion or diploma to students whose accounts with the college are delinquent. students who fail to pay short-term loans, veteran deferments or other debt, by the date established by the college, may be subject to additional charges, and/or reported to a collection agency and the credit bureau, and will not be able to receive transcripts. in the event that a student is reported to a collection agency, the student will be prohibited from registration.

**return check policy**

if a check is not honored when presented for payment, and is returned by a designated depository as uncollected, the check will be returned to the accounts receivable department. in accordance with florida statutes, chapter 832.05, a returned check fee will be assessed as authorized by broward community college policy 6.13, student fees and charges. in the event of collection agency or legal action for recovery, the maker or drawer may be additionally liable for court costs, collection fees and reasonable attorney's fees as prescribed by law.

**withdrawals and refund policies**

a 100% refund of tuition and all other special fees categorized as refundable shall be made when official drop notification is received and approved prior to the end of the college's published drop period for those courses that are eight weeks or longer. for courses less than eight weeks in length, the last day to drop and receive a refund will be the same as the non-credit course refund policy as described below.

exceptions to 100% refund provision shall be made pursuant to federal rules for prorated refunds. student financial services and the controller's office will establish refund guidelines pursuant to federal rules.

when a student is required to withdraw from a course after the official drop period, but prior to the mid-term date, because of circumstances determined by the college to be exceptional and beyond the control of the student, a 100% refund may be approved by the provost of the campus where the student is enrolled, the downtown center administrator, or the vice president for technical education. such circumstances may include, but are not limited to, serious illness, health concerns, involuntary call to active military duty and other emergency circumstances or extraordinary situations.

a 100% refund for non-credit courses shall occur up to the day prior to the first class for those classes meeting only once. a 100% refund for non-credit courses may occur up to the second class period for those meeting more than once. refund for extenuating circumstances as stated above will apply to non-credit courses. when a student petitions for a refund, he/she must have withdrawn from the class(es) for which a petition is being considered.

fees paid by credit card will be refunded directly to the credit card account. all other payment types will be refunded by check to the student. refund checks will be sent to the student's mailing address.

refunds will be processed approximately two weeks after the final drop/add date for each session through an automated process. students do not have to contact the cashier's office. it is the student's responsibility to drop classes through a registration office or on the web within the refund period.

**note:** universities may consider the number of withdrawals when considering students for admission. excessive "w" may be viewed negatively by admission officers.

the federal return of title iv funds policy applies to any student who has withdrawn from all bcc classes in a term for which he/she is receiving any form of title iv aid (pell grant, supplemental grant, stafford subsidized and unsubsidized 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 or she is entitled to, based on the date of withdrawal of classes, federal law requires that 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**

bcc's fees and tuition 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. bcc follows florida statutes regarding residency for tuition purposes.

a florida resident for tuition purposes, 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 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.

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 prior to the first day of classes and the dependent child has lived with the relative for five years immediately preceding residency classification and has been claimed 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 the 12 months immediately preceding the first day of classes.
- Proof of being self-supporting for the 12 months immediately preceding the first day of classes.
- Any other documentation required to support a claim of Florida residency for tuition purposes claim.

Any student who seeks reclassification as a Florida resident must complete and submit a residency affidavit obtained through any BCC Admissions Office. All residency reclassification documentation must be submitted no later than the day preceding the first day of classes for the term in which reclassification is sought.

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

Tuition Exemptions

Dual Enrollment/Early Admission
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 of 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 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. If denied, the student will be granted an exemption for the amount of the fees.

Linkage Institute
According to Florida Statute 288.8175, designated foreign students may receive in-state tuition rates to study in Florida at any State University or Community College.

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. (6A-14.054(19)(a)7.FAC)).
Student Financial Services

Introduction and Locations

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Introduction

Once you make the decision to attend college, the Broward Community College Student Financial Services Offices are ready to assist you in funding your education. Our goal is to help students who can benefit from further education but cannot afford to attend college without financial support. Our office staff will guide you through the application process as well as assist you in completing all the required forms. Please feel free to visit any of our campus offices for further information.

Student Financial Services Offices

A. Hugh Adams
Central Campus
Building 19 Lobby
954-201-8573

Judson A. Samuels
South Campus
Building 68, Room 116
954-201-8846

Student Financial Services Offices

North Campus
Building 46, Room 251
954-201-2330

Willis Holcombe
Downtown Center
Building 33, First Floor
954-201-7580

Types of Financial Assistance

BCC participates in a variety of federal, state, and institutionally funded programs. Financial assistance programs are classified as Grants, Scholarships, Loans, or Employment.

Grants are federal and state financial programs that do not require repayment. This type of aid is generally awarded to individuals who demonstrate exceptional financial need.

Scholarships are usually awarded to students who demonstrate academic excellence, exceptional talent or skills, or service to the College. Each scholarship has its own criteria, requires a separate application and does not require repayment. Scholarships are not guaranteed.

Loans are financial assistance that must be repaid usually with interest in a specific time period. Often repayment is deferred while students are attending classes.

Employment programs allow students to defray part of their expenses by working part-time up to 20 hours. Some positions are located on campus and others are located off campus.

Determination of Financial Need and Eligibility Requirements

Although parents and students are expected to contribute to a student’s educational expenses, the federal government does consider income, assets, number of dependents and other relevant 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. Qualified students may receive a combination of grants, scholarships, work-study and loans in their financial aid package. Financial aid is based on an individual’s financial need, college costs, and the availability of state and institutional funds.

In order to qualify for financial aid, a student generally must:

1. be a U.S. citizen, eligible permanent resident, or in the U.S. for other than temporary purposes and be able to provide proof of such;
2. be enrolled or accepted for enrollment in an eligible program leading to an A.A., A.S., A.A.S., or a federally approved certificate at Broward Community College;
3. be making satisfactory academic progress in the selected course of study according to the BCC guidelines;
4. not be in default of a student loan or owe a refund for any financial aid previously received;
5. be registered with Selective Service, if required to do so (applies to males between the ages of 18 and 25);
6. not have been convicted of a drug offense;
7. have a high school diploma or a GED;
8. have a valid Social Security number;
9. sign the statements of educational purpose located on the Free Application For Student Financial Aid (FASFA).

Note: Transfer students must have all of their transcripts from previous institutions received and evaluated before financial aid may be awarded.

Financial Aid Application Procedure

It’s easy to apply for financial aid at BCC. You may apply online at www.fafsa.ed.gov. Students may apply for financial aid throughout the year for some aid programs, such as the Federal Pell Grant and the Federal Family Education Loan Programs. Other programs, such as federal and state grants and most institutional scholarships require students to file applications by a specified deadline. All you need to do is respond quickly to any requests for further information or documentation by the Student Financial Services Office so that we may award your financial aid in a timely manner.
When applying for financial aid, **apply as early as possible**. In general, students should take the following steps:

- **Apply for admission.** New and transfer students must apply for admission to Broward Community College. A student does not have to be accepted to Broward Community College before applying for financial aid; however, he/she must be accepted before a financial aid award may be packaged.

When applying for admissions, you must request academic transcripts from any other postsecondary school you attended and request them to be evaluated.

- **Complete the Free Application for Federal Student Aid (FAFSA) after January 1, 2006.** Students who applied for financial aid last year should receive a 2006/2007 Renewal FAFSA from the U.S. Department of Education by mail between November and mid-January.

**First Time Applicants**

The FAFSA can be obtained online via FAFSA on the web (www.fafsa.ed.gov) or at www.broward.edu on the financial aid web page.

After January 1st, complete and return your FAFSA to Federal Student Aid Programs. List Broward Community College and the BCC Title IV Code (001500) in Item #86.

You will receive a Federal Student Aid Report (SAR) from the federal processor approximately three to four weeks after you submit your FAFSA or renewal FAFSA to Federal Student Aid Programs (or earlier if you apply online). The SAR indicates your expected family contribution, which is used to determine your eligibility for financial aid. The SAR also lists the information you recorded on your FAFSA or renewal FAFSA so that you can check your information for accuracy. If no corrections are needed, keep the SAR with your financial aid records. If corrections are needed, contact your campus Student Financial Services Office.

**Renewal Applicants**

After January 1st, complete and return your renewal FAFSA to the Federal Student Aid Program Processor. List Broward Community College and the BCC Title IV Code (001500) in Item #86. If you do not receive a renewal FAFSA between November and January, **do not wait for it**. Please go online via FAFSA on the web (www.fafsa.ed.gov) and choose the option for renewal.

**PIN Number**

The Federal Government is strongly advising all financial aid students to obtain a pin number by going to www.pin.ed.gov and follow the directions to obtain a pin number. This number will allow you to go on the web and review your status, make changes or corrections to your application and let you sign your application electronically. Your application will be processed quickly and efficiently.

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**Filing Deadlines**

Below we have listed deadline dates for the filing of financial aid. These deadline dates mean that all financial aid forms must be submitted to the Broward Community College Student Financial Services office in order for your funds to be processed in time to start classes. If you do not meet the deadline date, you must be prepared to pay for your tuition, fees and books **on your own**.

**Deadline Dates**

- **Priority Filing:** May 15th
- **Fall Term:** July 5th
- **Winter Term:** October 17th
- **Summer Term:** March 15th

**Tentative Dates for 2007/2008 are:**

- **Fall Term:** July 2nd
- **Winter Term:** October 15th
- **Summer Term:** March 14th

**Filing deadlines are critical. Failure to submit all requested documents will delay the processing of your application and affect the amount of aid you will receive.**

**Priority Deadline Date:** The priority-filing deadline of May 15, 2006 is the date the completed FAFSA should be received by Federal Student Aid Programs. Students wishing to be considered for other types of financial aid, Federal Supplemental Educational Opportunity Grants, Federal Work Study, and some institutional scholarships (e.g., merit awards, SEESE awards) must meet the priority-filing deadline of May 15, 2006.

**Term Deadline Dates:** The other dates which are listed by term are the dates that the Broward Community College Student Financial Services Office must receive and complete your financial aid information, if you would like your financial aid to cover your tuition and books by the start of the term.

**Federal/State/Institutional Financial Aid Policies**

**Dependency Status**

Many students believe that they are independent if they support themselves. This is not the only factor the government uses to determine if you are still dependent on your parents and if you still need to submit their information. If one of the following statements applies to you, then the government considers you an independent student.

- The student was born before January 1, 1983.
- The student is married.
- The student has legal dependents who receive more than half of their support from the student.
- The student is an orphan or a ward of the court (or was a ward of the court until age 18).
- The student is a veteran of the US Armed Forces.
If none of the above statements apply to your situation, you are considered a dependent student and we must consider your parents’ income when determining your financial need.

Professional Judgment
If you have extenuating, personal circumstances you feel need special consideration, please feel free to contact a campus financial aid advisor. Financial aid professionals are empowered to adjust certain situations if you provide the required documentation.

Verification
Verification is the required federal process of checking the information you provided to the federal government for accuracy. Applications are randomly selected by the federal processor and are based on guidelines set up by the Department of Education. If your application is selected for verification, you will be required to provide additional documentation, such as:

- signed copies of your income tax forms
- signed copies of your parent’s income tax forms
- 2006/2007 verification worksheet (available online at www.broward.edu at the financial aid website)
- Copies of your W-2 statements
- Copies of your parents’ W-2 statements

Satisfactory Academic Progress
Federal and state regulations require that students meet minimum academic standards in order to be eligible to receive financial aid funds. The following minimum standards are applied uniformly to all Title IV financial aid programs administered at the College. A financial aid student’s progress must be measured in qualitative (grade point average) and quantitative (time frame needed to complete the degree) standards. The standards of Satisfactory Academic Progress are:

Warning: If a student attempts 1-30 credits and earns less than a 2.0 overall GPA and does not complete 67% of coursework, the student is in danger of losing financial aid eligibility.

Denial: If a student attempts 31 or more credits, earns less than a 2.0 GPA and/or does not complete 67% of the coursework attempted; or attempts more than 90 credits; or is suspended from the College, the student is denied financial aid.

Note: Transfer credit hours must be counted when determining qualitative and quantitative standards; therefore all academic transcripts must be received and evaluated by BCC before financial aid can be awarded.

If there are extenuating circumstances that negatively affected your academic progress, you may petition to the campus. For more information, please read the Application and Award Reference Guide at www.broward.edu and access Financial Aid.

Remedial Courses – The federal government does not allow financial aid to cover more than 30 remedial credits (equivalent to one academic year) for any student. This means that if you are enrolled in classes and you have already taken 30 credits of remediation, your financial aid will not pay for those classes. This does not include any ESL courses.

Withdrawal and the Return of Federal Financial Aid
The Federal Return of Title IV Funds policy applies to any student who has officially or unofficially withdrawn from all BCC classes in a term the student is receiving any form of Title IV aid. This aid includes the Pell Grant, Supplemental Grant, Stafford Subsidized and Unsubsidized Loans 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 or she is entitled to, federal law requires that 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 online to www.broward.edu and access Financial Aid.

Application Procedures for Financial Aid Programs:

Pell Grant and Other Grants:
- Pell Grant
- Federal Supplemental Opportunity Grant
- Florida Student Assistance Grant
- Merit Awards
- Seese Scholarship Award

Students must complete a FASFA form and receive the answer from the federal government. The form must be processed by May 15th in order to be considered for all possible grants. Although you may apply for Pell Grant throughout the academic year, if you want to be considered for the other grant programs, you must have a complete file by May 15th.

Student Loan Programs:
- Stafford Subsidized Loan
- Stafford Unsubsidized Loan
- PLUS Loan
- Alternative Loan

Students wishing to apply for a student loan must first complete the FASFA form and receive a response from the federal government. Students must also complete a Loan Request and Acceptance Form indicating the name of the lender and the amount of the loan. This form must be completely filled out and returned to the campus Student Financial Services Office. You may access the master promissory note online at the financial aid website under loan e-signature. Loan funds cannot be disbursed until the master promissory note has been completed and returned to the lender.
First-time borrowers must complete a loan entrance interview before loan funds can be disbursed. Loan funds for first-time, first-year borrowers cannot be disbursed until 30 days after the first day of classes. It is extremely important that you respond promptly to all requests for additional information from Student Financial Services Office. Failure to do so will delay the processing, awarding, and disbursement of your financial aid funds.

Scholarship Programs

Broward Community College scholarships are available on a limited basis for academically talented students who demonstrate financial need, students who are performing service to the college, or students experiencing a financial hardship. Scholarships are awarded based on available funds. Students must complete a FAFSA or renewal FAFSA to apply for scholarship funds. Scholarships are usually advertised in July on the web and on the campus Student Financial Services bulletin boards. The scholarships require students to fill out one scholarship application for all awards. The deadline is usually September 15th, unless otherwise noted.

Institutional Scholarships

Athletic Scholarships provide awards to qualified members of Broward Community College athletic teams. Selection is made by the individual athletic coach prior to the academic year.

Fire Rescue Scholarships provide awards to fire rescue members identified by Broward County Aviation Department. The division determines application and approval processes.

I CAN MAKE IT Scholarships provide awards to Broward County high school students identified as economically, educationally, or socially at risk. Students must be referred by a community organization (i.e., Urban League, Boys Club, and United Way) and students must participate in the BCC campus Mentor Program.

International Student Scholarships provide awards to international students who suddenly find themselves in financial difficulty. Students must have a minimum 2.0 GPA and be recommended by the international student advisor on each campus.

Music/Theatre Scholarships provide awards to students, by audition, who are academically talented, and majoring in music or theatre. Awards are usually made prior to the academic term.

Earl Nightingale Scholarships provide awards to academically talented students in the areas of marketing or sales, based upon the recommendation of the Business Administration department.

President’s Ensemble Scholarships provide awards to students selected to perform in a Broward Community College musical group. Auditions and recommendations are made through the Music Department.

Principal’s Honors Scholarships provide awards to academically talented seniors graduating from a Broward County high school or adult center, based upon the recommendation of the school principal. Other area high schools graduates may be considered based on the availability of funds.

Scholars Awards provide awards to students who graduate in the top 10 percent of their high school graduating class from a Broward County high school. Application and required recommendations must be submitted to Associate Vice President for the BCC Honors Program prior to the academic year.

Service to the College Awards provide awards to students based on their service to the college. Awards are based on the recommendations of staff or faculty members.

Student Ambassador Awards provide awards to students who represent BCC as ambassadors at high schools, college nights and community events. Contact the Student Ambassador advisor on each campus for further award information.

Margaret Roach Award/Two+Two Scholarships provide awards to African-American students graduating from a Broward County high school in the upper quarter of the class (25%) with a 3.0 GPA. Students must be recommended by their high school principal.

Foundation Scholarships

Scholarships are available from private donors, foundations and organizations through the generosity of the BCC Foundation. These scholarships are advertised each July with a September application deadline and are awarded for a full academic year, unless otherwise noted. These awards require that you file for financial aid. Please check the BCC website and the campus bulletin boards for further information.

Work Study Programs

Federal Work Study Program provides students an opportunity to work on campus and earn up to $6.50 an hour for 20 hours a week. Funds are limited and awards are made based on the priority filing date of May 15th. Students must fill out an employment packet prior to beginning employment.

Florida Work Experience Program provides eligible Florida students an opportunity to work in the public school system as teacher aides or tutors. Students can earn up to $10.00. Funds are limited and awards are made based on a priority deadline of May 15th. Students must fill out an Employment Packet and be fingerprinted prior to beginning employment.

Please check with the campus Student Financial Services office for further information and application.
Other Financial Aid

Other scholarship information, when available, is advertised on our web site or on the campus Student Financial Services bulletin boards. Please check periodically for award availability.

Florida Prepaid Tuition Plan

Participants must present their authorization card at the campus cashier's office. Your prepaid tuition will be applied to your fees and you will be responsible to pay the balance. For eligibility questions, call (800) 552-4723.

Florida State Sources of Financial Aid

For more information on Florida programs, obtain a copy of the 2006-2007 Financial Aid Sources for Florida Students booklet, or access it at www.firn.edu/doe.

Veterans Benefits

Broward Community College is committed to providing services to veterans who have served honorably in the United States armed forces and their eligible dependents. Broward Community College is approved for veterans training in associate degree programs. A student receiving Veteran’s Administration (VA) educational benefits who previously received postsecondary training or education elsewhere must request the school(s) to forward an official transcript to the College Registrar’s Office. For information regarding credit for military training, see an Academic Advisor on any campus. A student who has not maintained satisfactory progress (2.0 or higher college cumulative GPA) at the end of any term will be placed on academic probation for the next two consecutive terms (for VA pay purposes, “Academic Warning” is the same as “Academic Probation”). If the student has not attained satisfactory progress (2.0 or higher college cumulative GPA) by the end of the second consecutive academic probation term, the student’s VA educational benefits will be terminated. The student may petition the College to be recertified for VA pay purposes after one term has elapsed. The College may then recertify the student when the College determines there is a reasonable likelihood the student will be able to attain and maintain satisfactory progress for the remainder of the program. Students needing assistance can contact Advisors on Central Campus at (954) 201-6573, North Campus at (954) 201-2330, or South Campus at (954) 201-8846.

Attendance Policies: For Certificate Programs (NCD):

Monthly attendance reports are sent to students enrolled in certificate programs. It is the student’s responsibility to get the completed forms back to the VA advisor in a timely manner. If nine hours of scheduled classes are missed, the student’s benefits are terminated. For Degree Programs (IHL), the class attendance policy is in accordance with the current Broward Community College Catalog, Academic Information, College Regulations, and the Class Attendance Policy.
Special Programs

Army Reserve Officers Training Corps (ROTC)

BCC Internship Program
(Cooperative Education)

Educator Preparation Institute (EPI)
Alternative Teacher Certification Program

Foreign Study Program

The Honors Institute

International Affiliate Institutions
Army ROTC Program

Broward Community 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 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 complete the ROTC program will be commissioned as an officer in the United States Military upon graduation from a four-year college or university with a Bachelor’s degree. 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.

BCC Internship Program

(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 the student with a meaningful experience directly related to the student's program 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 amount 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 contact in our professional field

For more information please contact the Accelerated Learning Coordinator at 954-201-7668.

Educator Preparation Institute (EPI)

Alternative Teacher Certification Program

BCC’s alternative certification program for teacher preparation targets individuals who currently hold a bachelor degree in an area of study other than education. This unique program provides the knowledge and tools needed to obtain a Florida Professional Teaching Certificate.

This is a 21 credit program consisting of 7 courses and 2 field experiences. All 7 courses will be offered in either a blended or full on-line format. The 2 field experiences require 16 hours each of observation in a Broward County public school classroom.

Students will demonstrate competency in the following areas: classroom management, instructional strategies, diversity, technology, the teaching and learning process, foundations of language and cognition, and professional foundations.
Students will meet the following standards:

- Florida Educator Accomplished Practices (FEAP)
- Interstate New Teacher Assessment and Support Consortium (INTASC)
- National Educational Technology Standards (NETS)

In order for students to receive their certificate of completion, they must pass the Florida Teacher Certification Examinations (FTCE). Once students have obtained a full-time teaching position in a Broward County public school, they will continue to receive support through the New Teacher Academy (NTA) and New Educator Support System (NESS).

The EPI Courses are:

- EPI 0020 – The Teaching Profession (2 credits)
- EPI 0030 – Field Experience (1 credit)
- EPI 0945 – Field Experience (1 credit)
- EPI 0002 – Instructional Strategies (3 credits)
- EPI 0004 – The Teaching and Learning Process (3 credits)
- EPI 0010 – Reading Fundamentals (3 credits)
- EPI 0003 – Technology (3 credits)
- EPI 0001 – Classroom Management (3 credits)

For more information contact the EPI specialist at 954-201-7668.

Foreign Study Program

Broward Community College provides students with opportunities to enroll in several different overseas academic programs. BCC has conducted study programs in foreign locations since 1974, and students participating in these programs earn transferable college credit. BCC 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 BCC Foreign Study programs may be obtained by contacting the International Education Office at (954) 201-7707.

Semester in Spain Program

The BCC 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 by participating in the program. 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 residencias.

College Consortium for International Studies

Broward Community College is an active member of the College Consortium for International Studies (CCIS), an international organization founded for the purpose of providing high quality international programs abroad, at reasonable cost. As a result of membership in CCIS, Broward Community College offers summer and semester-length academic programs in over a dozen countries including England, France, Germany, Ireland, Italy, and Israel. Students may earn Broward Community College credits when they enroll in these programs.

Summer Foreign Study Program

Broward Community College also conducts several short-term overseas academic programs in foreign locations during the summer terms. These courses provide an excellent opportunity to combine foreign travel experience with academic instruction. All foreign-study courses combine on-campus instruction with foreign travel. Participants typically earn three to six semester hours of credit in a variety of subjects, and many courses are of an interdisciplinary nature. These courses are fully accredited and may be applied toward a degree at Broward Community 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.

High School in Israel

Qualified students participating in the Alexander Muss High School in Israel Program may earn credit in one or two Broward Community College courses while studying in Israel.

The Honors Institute

One of the most highly rated two-year Honors Programs in the country, the Honors Institute at Broward Community College serves approximately 800 students annually. Honors sections of required General Education courses are taught in a dynamic seminar style by Honors Faculty and are capped at twenty students to create an enriched and specialized learning experience.

The Honors Institute Mission Statement

The mission of the Honors Institute of Broward Community College is to provide an enriched program in a vibrant, active community of students, faculty and staff that:

- 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

All students who have completed 12 college credit hours and have a minimum of a 3.5 overall GPA are eligible to join the Honors Institute. Up to 100 students from Broward County High Schools who rank in the top ten 10% of their class are also recruited annually to join the Honors Institute at BCC. Eligibility information, campus contact information and the Honors Institute Application...
are available on the BCC website, Honors Institute home page, www.broward.edu.

**Honors Institute Scholarships**
The Honors Institute offers more than 100 scholarships to qualifying Honors students to cover the cost of six semester hours of tuition each major term. The Honors Institute offers 100 tuition scholarships annually to high school graduates who rank in the top 10% of their classes or who demonstrate advanced capability. Through BCC’s International Education program there is a 50% subsidy for students who wish to take part in the International Honors Experience. All graduates of the Honors Institute are eligible for similar scholarships at transfer universities. Scholarships are also awarded to BCC Brain Bowl and Math Team members.

**The Honors Certificate**
The Honors Certificate is awarded upon graduation to students who achieve at least a 3.5 overall cumulative Grade Point Average, and who earn at least eighteen hours in Honors classes, including three credits in the Honors Interdisciplinary Seminar. Associate in Science and Associate in Applied Science students who earn nine credits in Honors classes will receive Honors Recognition. The Honors Institute Gold Seal is affixed to the diplomas of qualifying graduates and Honors cords are awarded for graduation regalia.

**University Transfer Scholarships**
Each May, the Honors Institute hosts a college-wide Honors Convocation. Departmental and Academic 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.

**Social and Cultural Events**
Special campus and college-wide social activities are provided for students in the Honors Institute. Honors Institute students are encouraged to participate in the many cultural events presented by Broward Community College.

**The Brain Bowl**
Students in the Honors Institute have the opportunity to compete for a place on the Broward Community College Brain Bowl Team. Regional and state winners of the annual Florida Community College Brain Bowl receive cash prizes and earn scholarships to upper division universities. BCC’s highly successful Brain Bowl team, whose members all receive scholarships, competes in five tournaments a year throughout the state and the South. BCC 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 Community College. Students earning at least a 3.5 overall cumulative GPA, after 12 credit hours, are eligible for membership. The Society 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 competitions as well as opportunities to attend regional, state and national conferences and seminars.

**International Affiliate Programs**
Broward Community College has established formal linkages with several institutions of higher education around the world. Since 1981, BCC has maintained, at various times, academic affiliations with educational institutions in Spain, Malaysia, Singapore, Argentina, Ecuador, the United Arab Emirates, India, Sri Lanka, and Vietnam. Broward's COC/SACS accreditation does not transfer to these international affiliates or their students. International affiliates utilize the BCC curriculum and offer courses and programs similar to those offered at BCC. Broward Community College provides technical assistance to facilitate the parallelism and quality of the academic programs offered at all international affiliates.

Current BCC International Affiliates include:
- Pan American University of Cuenca, Cuenca, Ecuador
- American College of Higher Education, Colombo, Sri Lanka

Broward Community College also conducts accredited programs in Singapore and Bangalore, India where students enroll for college credit courses as students of BCC.
Continuing Education/Workforce Development

The Institute for Economic Development

Continuing Education

Center for Business and Industry

Industry Based Training

WINGS Program

Health Science Continuing Education and Workforce Development
THE INSTITUTE FOR ECONOMIC DEVELOPMENT

The Institute for Economic Development is a vital part of the total program at Broward Community 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
  - Workforce Education
  - Online Education
  - Community Education
  - RENEW (Refuge)
- Center for Business and Industry
- Health Science
  - Continuing Education
  - Workforce Education
- Industry Based Training (IBT)
- W.I.N.G.S.

Continuing Education

www.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, to 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 BCC campuses (North, Central, South), Tigertail Lake Facility, Miramar Center, Pines Center, FAU/BCC Higher Education Complex, Weston Center and other community locations.

Workforce Education

- Aviation
- Building Construction
- Business Management
- Classroom
- Online
- Certified Personal Trainer
- Child Care Certification
- Computer Training
- Classroom
- Online
- Technical Certification
- Financial Training
- Insurance
- Languages
  - Classroom English
  - Classroom ESOL
  - Classroom Foreign
  - Online Spanish
- Payroll
- Real Estate

Community Education

- Active Adults 50+
- Around the World
- Art and Culture
- Children & Divorce
- Culinary
- Personal Enrichment
  - Online
- Recreation and Water Sports
- Renew
- Test Preparation
  - Classroom
  - Online
- Young Peoples Summer College

Additional Program Information:

Children and Divorce: a court mandated, four-hour educational course for divorcing parents who have minor children. This course focuses on the concerns parents have regarding their decision to divorce and the impact this process will have on their children.

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 BCC campuses and our own computer laboratories. Programs for certification include A+, Network+, MCSE, MCDBA, MCSA, CCNA, CIW, CCNT, plus web development and graphic design. 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.

1. Computer seminars scheduled on a regular basis at our own state-of-the-art microcomputer laboratory. These seminars are designed to provide basic skills in a short time that will be used immediately upon return to the work place. Each student will have the exclusive use of a computer during the seminar.
2. Non-scheduled seminars as above are offered to companies seeking custom training but arranged on a contractual basis. Admission to these classes is limited to the enrollment contracted for in the Training Agreements.
3. Online Internet courses are offered for individuals who prefer to learn from home or office. A wide variety of course topics are scheduled monthly, and curriculum is available for viewing at website www.broward.edu.

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. Mortgage broker tests are given monthly at BCC.

RENEW: Refugees Entering New Enterprises and Workforce (RENEW) is a comprehensive ESOL and job training program for refugees and asylees from Cuba, Haiti, Colombia, Venezuela and several other countries. Candidates must reside in Broward County and have been documented as a refugee or asylee for five years or less.

RENEW offers exciting and interactive ESOL and workplace readiness classes using up-to-date educational and technological resources. Additionally, RENEW provides career counseling to assist students in making effective career choices and in selecting an appropriate job training program, if needed, in order to enter or continue in their field of choice. Day and evening classes are offered.

This program is funded by the US Department of Health and Human Services, Office of Refugee Resettlement and administered by the Florida Department of Children and Families. Our counseling staff is bilingual in English, Spanish, Haitian-Creole, and French. For additional information including eligibility criteria, and to schedule an appointment with a counselor please call 954-201-7835 or email blord@broward.edu.

Young People’s Summer College: Children eight to sixteen years of age are introduced to Broward Community College educational options, giving them a positive summer experience. Topics are interesting so kids have fun while they learn, and have a chance to become familiar with the college campus environment. Classes are offered in Computers, Drawing, Golf, Paper Mache, Jazz/Hip Hop, Calligraphy, Aviation, Aquatic Science, Play Production, Word Processing, Spanish, Fashion Art, Safe Sitters, Cartooning, Kung Fu, Photography, Cheermastics, Snorkeling, Tennis, Musical Instrument Instruction, Summer Fun with Food, Magic, Memory Power, and Creative Writing.

Center for Business and Industry
www.broward.edu
(954) 201-7814

The Center for Business and Industry (CBI) at Broward Community College’s Institute for Economic Development works to support the economic well-being of Broward County’s work force. 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
- Short-term training at all campuses and centers
- Existing seminars and workshops
- High Impact Adventure Training Ropes Course

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.

Industry Based Training
www.broward.edu
(954) 201-8054

Industry Based Training (IBT), is designed to bridge the gap between local labor market needs and the abilities of the workforce through the delivery of customized training services and on-the-job training. Major employers provide up-front commitments to hire. IBT recruits individuals for these companies and provides customized, competency-based training leading to specific jobs in these workplaces. The length of training is a minimum of four weeks and is full time. How the training is delivered is dependent upon the specific jobs. For example, school bus drivers are trained in a classroom setting for three weeks, followed by road training in the school bus, for a total of about six weeks. Each program offered is unique. This one results in a Commercial Driver’s License (CDL “B”) and employment with the School Board of Broward County.

Our training is federally funded and is free to eligible individuals. The participating employer selects people who qualify for services and meet the employer profile in advance of training. Jobs are guaranteed to trainees based upon successful program completion. All jobs are full time and provide fringe benefits.

These training programs have been in existence in Broward County since 1984, and have been offered through Economic Development since 1997. IBT is located on BCC’s South Campus, Building 88, Room 102, 7200 Pines Boulevard, Pembroke Pines, FL 33024, (954) 201-8055.
WINGS (Women Investigating New Goals and Services) www.broward.edu
(954) 201-2398 North
(954) 201-8874 South

WINGS is a comprehensive re-entry program offering assistance to women who 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 become independent, self-supporting citizens. This program offers workshops, computer training and scholarships for women returning to school. Program is free to eligible participants.

Our free programs offer:
Career counseling and assessment
Building self-esteem
Assertiveness training

Communication skills
Job search skills
Resume writing
Basic computer literacy training
On-going support services

Workshops and computer classes are offered during the day and evening schedules, in both English and Spanish. Workshops are offered at the North, Central and South Campuses of Broward Community College.

To register for WINGS workshops, participants may call North Campus at (954) 201-2398, or South Campus at (954) 201-8874.

Health Science Continuing Education and Workforce Development

The Health Science Continuing Education 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 philosophy and purpose of the College through continuing education offerings for health care providers. Target groups include medical office personnel, dental assistants and hygienists, dietitians, registered and licensed practical nurses, medical assistants, medical laboratory personnel, nursing home administrators, radiographers, physical therapists and assistants, respiratory therapists, and psychological services licensees.

Health Science Continuing Education is an approved provider for the American Association of Medical Assistants**; American Dietetic Association**; Board of Massage (DPR Provider MCE-129-07 Exp. 8/2007); Florida Certification Board, Inc. (Florida Department of Health Provider #143A); Clinical Laboratory Personnel (recognized by National Certifying for Clinical Lab Personnel) DPR #JP3 Exp. 8/2006; Dental Assisting National Board, Inc.; Florida Physical Therapy Association; Florida State Board of Dentistry Provider #P00020; Florida State Board of Nursing FBN #2163 - CE Broker #50-266; Nursing Home Administrators**; Florida Board of Clinical Social Work, Marriage and Family Therapy and Mental Health Counseling (BAP#73, Exp. 3/31/07); Department of Radiologic Technology HRS Provider #3200006) (Category A); and Respiratory Care*

**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 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, home study, audio and video offerings 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 for Health Professionals Schedule, which is published three times a year. Additional flyers announce individual offerings periodically. For information regarding these programs contact Continuing Education for Health Professionals at (954) 201-6768.

In addition to credit and non-credit courses the department offers Advanced Technical Certificates (ATC). The ATC has been identified as a program of instruction consisting of nine credit hours or more but less than 45 credit hours of college-level courses, which may be taken by students who have already received an Associate of Science degree and are seeking an advanced specialized program of study to supplement the associate degree.

The department offers Advanced Technical Certificates in the following areas.

- Basic Perioperative Nursing
- Coronary Care Nursing
- Critical Care Nursing
- Graduate Nurse Intern
- Home Health Nursing
- Multi-skilled Healthcare Professional
- Vascular Sonography
Basic Perioperative Nursing
The Basic Perioperative Nursing courses are offered to licensed registered nurses who require additional course work to be employed in an operative/surgical unit. An Advanced Technical Certificate in Basic Perioperative Nursing will be awarded to students who complete the following courses with a grade of “C” or higher:
NUR 2293 Basic Perioperative Nursing 5 cr.
NUR 2293L Basic Perioperative Practicum 5 cr.

Coronary Care Nursing
The Coronary Care Nursing course is offered to licensed registered nurses who require additional course work to be employed in a coronary care unit. An Advance Technical Certificate will be awarded to students who complete the following courses with a grade of “C” or higher.
NUR 2294 Coronary Care Nursing 9 cr.

Critical Care Nursing
The Critical Care Nursing courses are offered to licensed registered nurses who require additional course work to be employed in a critical care specialty unit. An Advanced Technical Certificate in Critical Care Nursing is awarded to students who complete a minimum of nine credit hours with a grade of “C” or higher in the following courses:
NUR 2391 Care of the Critically Ill Newborn 4 cr.
NUR 2392 Critical Care of the Pediatric Client 5 cr.
NUR 2292 Introduction to Critical Care Nursing 8 cr.
NUR 2292L Critical Care Lab 3 cr.
NUR 2247L Critical Care Clinical Practicum 3 cr.
NUR 2274 Emergency Nursing 4 cr.
NUR 2274L Emergency Nursing Practicum 4 cr.
NUR 2245L Emergency Nursing Clinical Practicum 1 cr.
NUR 2297 Cardiac Nursing: Basic Arrhythmia 2 cr.
NUR 2297L Cardiac Nursing Clinical Lab 1 cr.

Graduate Nurse Intern
The Graduate Nurse Intern courses are offered in licensed registered/graduate nurses who require additional courses to meet a healthcare agency’s requirement for employment. An Advanced Technical Certificate will be awarded in Graduate Nurse Intern to students who complete a minimum of nine credit hours with a grade of “C” or higher in the following courses:
NUR 2946 Nurse Internship 1 cr.
NUR 2946L Nurse Internship Clinical Lab 6 cr.

And 2 or more credits of the following:
CVT 1501 Basic Electrocardiography 2 cr.
HUN 1202 Essential of Nutrition and Diet Therapy 3 cr.
MLS 1525C Medical Lab. Tech III (Phlebotomy) 5 cr.
OR
NUR 2930 Comparative Health Care Systems 3 cr.
SPC 1024 Intro to Speech Communications 3 cr.
SPC 1600 Public Speaking 3 cr.

Home Health Nursing
The Home Health Nursing courses are offered to licensed registered nurses who require additional courses to be employed with a home health nursing agency. An Advanced Technical Certificate, Home Health Nursing, will be awarded after a minimum of nine credit hours are completed in any combination of the following courses:
NUR 1271 Foundations of Community Health 3 cr.
NUR 1272 Community Health Care 3 cr.
NUR 1273 Health Promotion & Prevention 3 cr.
NUR 2062 Health Assessment of the Adult Client 5 cr.
NUR 2275 Transition to Home Health Nursing 2 cr.
NUR 2275L Transition to Home Health Nursing Cl 2 cr.

Multi-Skilled Healthcare Professional
The Multi-Skilled Health Care Professional courses are offered to Associate in Science degree graduates who are licensed Healthcare professionals needing cross-training in other discipline areas. An Advanced Technical Certificate, Multi-Skilled Healthcare Professional, will be awarded after a minimum of nine credit hours are completed in any combination of the following:
CVT 1501 Basic Electrocardiography 2 cr.
HCP 1930 Fundamentals of Cardiac Catheterization 3 cr.
HAS 1100 Medical Admin./Hospital Business Op. 3 cr.
MLS 1525C Med. Lab Tech III (Phlebotomy) 5 cr.
OR
NUR 2940C Respiratory Care Training for Nurses 12 cr.
NUR 2941C Respiratory Nsg.: Oxygen 2 cr.
NUR 2942C Respiratory Nsg.: Chest Therapy 2 cr.
NUR 2943C Respiratory Nsg.: Treatments 1 cr.
NUR 2944C Respiratory Nsg.: Protocols 2 cr.

Vascular Sonography
The Vascular Sonography Courses are designed to prepare the registered Sonographer for the registry examination given by the American Registry of Diagnostic Medical Sonography (ARDMS) to become a Registered Vascular Technologist (RVT). An Advanced Technical Certificate: Vascular Sonography, will be awarded after nine credit hours are completed.
SON 2171 Vascular Sonography 3 cr.
SON 2175 Vascular Sonography II 3 cr.
SON 2176 Vascular Sonography III 3 cr.
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
Student Ombudsman
Academic Standards Committee
Academic Honesty
Family Educational Rights and Privacy Act
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 semester hours who have a grade point average of 4.0.

The Dean’s List includes the names of students carrying 12 or more 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 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. Usually, the Offices of Social Security, Railroad Retirement, and Veterans Administration consider 12 credit hours to be a full load.

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.

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 the approval of the Academic Standards Committee.

A student who has earned 25 or more semester hours credit is classified as a sophomore.

Transcript Evaluation
Transfer students must provide official transcripts from all previously attended colleges or universities. Transcripts should be sent to Broward Community College, College Registrar’s Office, 225 East Las Olas Blvd., Ft. Lauderdale, FL 33301, prior to or within 30 days of the start of the initial 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 completed. 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.

Previously earned credits and grades may transfer in, but may not be accepted for a specific degree program. All grades from other colleges are computed in the cumulative grade point average at BCC, including failing grades at previous colleges. Failure to report previous college-level work attempted constitutes a falsification of application and subjects the applicant to loss of all credit earned and may result in dismissal.

An applicant who was not in good standing at the last institution attended will be treated in the same manner as if he/she was suspended from Broward Community College. 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 BCC.

Broward Standards of Progress
Broward Community 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. BCC 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.

The regulations regarding academic standards of progress apply to all degree and certificate students. In determining academic progress, college credit, vocational credit and college preparatory credit are combined. “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 students shall be placed on academic warning at the end of a term if the student has earned 0-29.9 college and/or vocational credits and has earned less than a 1.5 cumulative grade.
point average. Students on academic warning should see an academic advisor or counselor prior to registering for the next term.

**Academic Probation** Any student shall be placed on academic probation at the end of a term if the student has earned 30-45.9 college and/or vocational credits and has earned less than a 1.5 cumulative grade point average. Students on academic probation should see an academic advisor or counselor prior to registering for the next term.

**Academic Suspension** Any student shall be placed on academic suspension at the end of a term if the student has earned at least 46.0 college and/or vocational credits earned for GPA and has earned less than a 1.5 cumulative grade point average. Students academically suspended will not be permitted to enroll for one semester (fall, winter, or full summer) following the term in which they were suspended.

After the first academic suspension, and after the student has satisfied the penalty, the student must see the Dean of Student Affairs or designee at the campus where they wish to enroll. The student must follow any instructions pertaining to course selection. Any subsequent suspensions will require the student to petition and appear before the Academic Standards Committee prior to re-entry.

**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. If, at the end of 24 credit hours, 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 cancellation of the previous unsatisfactory academic record, except in the case of students enrolled during or later than Term I, 1997-1998. For Certificate and Diploma students, the requirement is completion of one-third of the total program hours and a grade point average of 2.0 or above. Normally, this cancellation will not be approved unless the unsatisfactory student performance is at least two academic years old.

Canceled academic records will be completely disregarded in the calculation of credit hours and grade point average. However, these students’ permanent records will show all work 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.

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**Class Attendance Policy**

Each professor’s attendance policy is communicated in writing in the course syllabus. By staying in the class, students are agreeing to abide by that attendance policy.

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, 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 or the assignment of an “I” grade when the instructor authorizes non-penalized absences but the work cannot be completed in the time available.

**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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<tr>
<th>Grade</th>
<th>Points</th>
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<tr>
<td>A</td>
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<td>B</td>
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<td>D</td>
<td>1</td>
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<td>F</td>
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</tbody>
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The following grades do not affect the GPA.

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<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>W Official Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>X Audit</td>
<td>0</td>
</tr>
<tr>
<td>XW Audit Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>NC Non-credit course</td>
<td>0</td>
</tr>
<tr>
<td>NG No Grade Assigned</td>
<td>0</td>
</tr>
<tr>
<td>NR Grade not received</td>
<td>0</td>
</tr>
<tr>
<td>S Satisfactory</td>
<td>0</td>
</tr>
<tr>
<td>U Unsatisfactory</td>
<td>0</td>
</tr>
</tbody>
</table>
Incomplete Grade “I”
An “I” grade may be given when a student who is in good standing and with documented extenuating circumstances has not completed the required coursework by the end of the term. 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 community 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.
- 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.

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 with the permission of the Faculty member. A student who audits a course must adhere to attendance requirements of the course and, if the Faculty member desires, class requirements. No grade will be assigned and no credit will be awarded. However, an audit will count as an attempt if 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.

The cost for auditing a course is the same as taking it for credit. A department may exclude a course from audit status. College preparatory students, who are required to be certified as completing competency-based college preparatory instruction may not be enrolled as audit students.

Non-credit Course “NC”
The “NC” is assigned automatically for any non-credit hour course. “NC” is used for continuing education, economic development, lifelong learning, and other classes for which no credit is awarded.

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 provide procedural due process to students.

Grounds for Using the Grade Appeal Process for Final Course Grades
Any appeal of a course grade shall be considered in comparison with the standards in the Faculty member’s grading policy. Each Faculty member shall communicate in clear, detailed, written form, his/her grading policy within the first week of the course. The policy shall be included in the course syllabus. The elements to be considered in calculating the student’s grade shall be clearly articulated as to value and all factors to be considered in arriving at the final grade stated. The student’s appeal shall be based upon a complaint of inequitable treatment that the student can demonstrate with reasonable evidence. The appeal shall show that the grading policy was misapplied to the student.

Grounds for Using the Grade Appeal Process for Academic Dishonesty.
The appeal shall be based upon the student’s claim that academic dishonesty did not occur. The academic sanction imposed by the Faculty member and stipulated in the course syllabus may not be appealed.

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 BCC 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 Community College record and any previous credit transferred to Broward Community College. Students may graduate with honors in three grade point categories.

- 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

A student may have only three attempts per course. An attempt is defined as enrollment after the 100% refund deadline for courses taken after 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 through a successful petition to the Academic Standards Committee based on major extenuating circumstances.

This rule does not apply to repeatable courses, such as 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 after the second attempt. The law also provides for exceptions to this extra fee if there are extenuating circumstances, 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.
Students are strongly encouraged to discuss, with their advisor/counselor and financial services officer, the effect withdrawing or repeating a course may have 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. An example is a science course and the associated laboratory. You 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.

Student Ombudsman

The campus/center chief student affairs officer shall serve as the campus/center Student Ombudsman, and will serve as an advocate for students' general issues and concerns. The campus/center chief student affairs officer will guide students to appropriate personnel, and provide students with appropriate College policies and procedures.

If a student’s issue is related to academic standards of progress, graduation requirements, access to courses, or other academic policies, the campus/center chief student affairs officer will refer the student to the Academic Standards Committee. The Academic Standards Committee makes recommendations to the Vice President for Student Affairs upon reviewing the student’s petition and interviewing the student. The Vice President for Student Affairs shall approve or disapprove recommendations from the Academic Standards Committee in his/her role as the College Student Ombudsman.

Academic Standards Committee

The chief student affairs officer on each campus or center, in the role of campus/center Student Ombudsman, shall be responsible for addressing student concerns.

The Academic Standards Committee hears appeals from students on matters related to academic policies such as standards of progress, graduation requirements, and repeating courses. The Committee makes recommendations to the Vice President for Student Affairs in his/her role as College Student Ombudsman. 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 at all student affairs offices. The Petition shall include all pertinent and relevant documentation such as transcripts, letters from the transferring institution, 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 Community College from the previously attended institution.

2. The campus/center chief student affairs officer or designee must sign the petition and forward it to the College Registrar's office no later than one week prior to the scheduled meeting. Exceptions must be approved through the campus/center chief student affairs officer.

3. 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.

4. In cases involving entering or re-entering Broward Community College after suspension, the student shall be required to attend the meeting. Students will appear before the Committee in order of sign-in.

5. After careful review of the petitions, the Committee shall make recommendations to the Vice President for Student Affairs. The Vice President for Student Affairs approves or disapproves the recommendations from the Committee.

6. The student shall be notified in writing of the Vice President’s decision.

Academic Honesty

Broward Community College expects its students to be honest in all of their coursework and activities. Breaches of academic honesty include 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 Community 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 BCC employee may refer a student to the Dean of Student Affairs for student disciplinary action in accordance with the BCC 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.

FERPA gives parents certain rights with respect to their children's education records. These rights transfer to the student when he or she reaches the age of 18 or attends a school beyond the high school level. Students to whom the rights have transferred are “eligible students.”

Parents or eligible students have the right to inspect and review the student's education records maintained by the school. Schools are not required to provide copies of records unless, for reasons such as great distance, it is impossible for parents or eligible students to review the records. Schools may charge a fee for copies.

Parents or eligible students have the right to request that a school correct records which they believe to be inaccurate or misleading. If the school decides not to amend the record, the parent or eligible student then has the right to a formal hearing. After the hearing, if the school still decides not to amend the record, the parent or eligible student has the right to place a statement with the record setting forth his or her view about the contested information.

Generally, schools must have written permission from the parent or eligible student in order to release any information from a student's education record. However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31):

- School officials with legitimate educational interest;
- Other schools to which a student is transferring;
- Specified officials for audit or evaluation purposes;
- Appropriate parties in connection with financial aid to a student;
- Organizations conducting certain studies for or on behalf of the school;
- Accrediting organizations;
- To comply with a judicial order or lawfully issued subpoena;
- Appropriate officials in cases of health and safety emergencies; and
- State and local authorities, within a juvenile justice system, pursuant to specific State law.

Schools may disclose, without consent, "directory" information such as a student's name, address, telephone number, date and place of birth, honors and awards, and dates of attendance. However, schools must tell parents and eligible students about directory information and allow parents and eligible students a reasonable amount of time to request that the school not disclose directory information about them. Schools must notify parents and eligible students annually of their rights under FERPA. The actual means of notification (special letter, inclusion in a PTA bulletin, student handbook, or newspaper article) is left to the discretion of each school.

For additional information or technical assistance, you may call (202) 260-3887 (voice). Individuals who use TDD may call the Federal Information Relay Service at 1-800-877-8339.

Or you may contact the Family Policy Compliance Officer at the following address:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-5920
STUDENT SUPPORT SERVICES

Academic Advising and Counseling

Career Planning and Employment Services

Disability Services

Bookstores

Learning Resource Centers

Libraries

The Mentor Program

Childcare Services
Student Support Services

**Academic Advisement and Counseling**

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

- Educational and Career 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 world of work.
- Referrals to outside agencies for issues such as substance abuse, AIDS awareness, interpersonal relationships and crisis counseling.

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 Downtown 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 meet with an Advisor or Counselor during their first semester for advisement and educational planning.

Students must learn to use the online self-help advising tools, degree audit, search for open classes, and registration system.

**Career Planning and Employment Services**

Career planning and employment services are available to all students and alumni of Broward Community College. A variety of services are available to assist you in making career decisions, setting career goals, and preparing for a job. Students are encouraged to do the following:

- Take self-assessments to generate a list of prospective occupations that match your 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 your major.
- Make an appointment for individual career counseling, including educational planning and/or job-seeking assistance.
- Examine university catalogs or access online information and counseling manuals for transfer requirements about the programs you may wish to pursue.
- Access national educational directories and career libraries.
- Access full or part-time job listings and internships posted through your campus’ Career Center
- Access student work-study jobs and jobs at posted on the Broward Community College’s website.
- Learn about on-campus employer recruitments.
- Obtain assistance for resume and cover letter writing strategies.
- Develop successful job interviewing skills.
- Consider taking the SLS 1301 Career Planning course.

You may visit the Career and Employment Services Office at the campus location of your 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
- Willis Holcombe Downtown Center
  Building 33, Room 117 (954) 201-7491
- Pines Center Room 107 (954) 201-3601

**Disability Services**

Broward Community College seeks to comply with all relevant laws enacted at every level of government to provide access to students with special needs. Students with documented disabilities are assured participation in all College activities and services. Individuals who plan to attend Broward Community College should contact the Disability Services Specialist on their campus. Each student will be provided with appropriate accommodations based on his/her documented disability, individual needs, and College policy.

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 Community College. For further information, call (954) 201-7545.

**Bookstores**

The Broward Community 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. We also have an extensive assortment of art supplies, gift items, college rings, clothing, uniforms, dictionaries, reference books, backpacks, software, calculators, notebooks, writing tools, diploma frames, decals, cell phones, beepers, and a whole lot more. Services also include special orders for books and software not normally carried as basic stock, and buy-back of used college books. 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

Bookstore hours of operations are posted on our website.

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 Downtown Center,
FAU Tower  (954) 762-5204
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. BCC Student ID Cards validated for the current term are required at each BCC LRC.

Learning Labs

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

Tutoring

Tutoring services are available for several disciplines. Interested students are advised to contact the Learning Resource Center on each campus for tutoring details.

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.

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 Downtown 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. This is a joint library of A. Hugh Adams Central Campus and Florida Atlantic University. The goal of the library is to provide academic support programs of study and to create a stimulating environment that will encourage academic achievement. Students may use LINCC, the electronic catalog, and databases available in-house and through other automated systems to facilitate research. All resources are accessed through the University/College web page.

Students on the College’s North and Judson A. Samuels South Campuses are also served by joint-use facilities. The College and the Broward County Public Library System jointly operate these libraries. On North Campus, the joint BCC/Broward County Library is located in building 62, and on the Judson A. Samuels South Campus, the joint BCC/Broward County Library is located in building 72. 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 are served by a Broward County Library, which is located nearby.

Library Cards

BCC students are eligible to use all campus libraries. However, due to their particular partnerships, different library cards are required on the campuses to check out materials. Students must have a BCC identification card in order to access 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) 201-6660
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

**The Mentor Program**

The Mentor Program matches BCC faculty and staff volunteers with students who want to enhance academic success. Student participants have opportunities to explore careers, connect with valuable resources, learn study skills and become more involved in college life. For more information, contact one of the Mentor Program offices.

A. Hugh Adams Central Campus (954) 201-6358
North Campus (954) 201-2312
Judson A. Samuels South Campus (954) 201-8994
Willis Holcombe Downtown Center (954) 201-7420

**Childcare Services**

Broward Community College offers Childcare Services for students and faculty. The centers' mission is to provide an enriched, innovative educational program focusing on reading, writing, mathematics, and language arts and readiness skills. The curriculum also emphasizes proper manners in an environment that is positive and safe. In addition to the children's program, parents are invited to workshops designed to enhance parenting skills. For cost and further information, contact one of the childcare center locations:

BCC-North Campus
Little Learners' Child Development Center
1150 Coconut Creek Parkway, Bldg 63
Coconut Creek, Fl. 33066
(954) 201-2440, Fax (954) 201-2445
Director: Leta Wilson

BCC/FAU Child Development Center
3501 SW Davie Road
Davie, Fl. 33314
(954) 201-6987, Fax (954) 201-6985
Director: Pamela Feldman

BCC-South Campus Child Development Center
7200 Pines Boulevard
Pembroke Pines, FL 33024
(954) 201-8651, FAX (954) 201-8653
Student Activities

Student Life

Student Organizations

Student Government

Tigertail Lake Center

Intercollegiate Athletics

Student Publications
Student Activities

Student Life

Student Life offices provide information and support for student clubs, student government, student development and leadership, student health insurance, wellness education, bulletin board approval, bus schedules, student ID card services, and campus events. In addition, Student Life sponsors intramural/recreational sports, comprised of a variety of competitive athletic leagues and tournaments. Student Life programs and services are available to currently enrolled BCC students with a valid student ID card. To learn more about activities/programs, contact a Student Life Office at any of the following locations or visit student life on line at http://www.broward.edu/.

- 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 188  (954) 201-8911
- Willis Holcombe Downtown Center
  Building 33, Room 107  (954) 201-7377
- Pines Center
  Building 100, Room 106  (954) 201-3601

Student Organizations

Student organizations, clubs and programs contribute to the total experience of the college student. Operating under the supervision of the Dean of Student Affairs and the Director of Student Life/Development, student organizations encourage cultural, social, and intellectual development. Students are encouraged to participate. Detailed information on current campus organizations can be obtained in the Student Handbook, which can be visited online at http://www.broward.edu.

Student Government

SG operates on all campuses and the Willis Holcombe Downtown Center. Students are encouraged to participate and represent student interests. For more information, contact your respective Student Life Office.

Tigertail Lake Center

The Tigertail Lake Center provides watersports programs, a conference facility, the ropes challenge course, recreational trips, and credit and non-credit watersports classes. Watersports training and recreational opportunities are offered in sailing, windsurfing, snorkeling, and kayaking to all BCC faculty, students, and staff. Students are welcomed to get involved in these programs by taking a Continuing Education or Wellness activity class at Tigertail Lake. Monthly watersports classes offered off-site in the Florida Keys are available to hone watersports skills. These monthly trips offer students the opportunity to experience an open water environment. Most activities at the Tigertail Lake Center are available without charge to BCC students and student organizations. The Ropes course offers students open challenges once per month for the chance to experience climbing opportunities at Tigertail Lake. The Tigertail Lake Center is located on the entrance drive to Outdoor World in Dania Beach. Please call the Watersports Office at (954) 201-4500 for information and a brochure, or visit Tigertail Lake online at http://www.broward.edu/.

Intercollegiate Athletics

The purpose of the BCC intercollegiate athletic program is to provide an opportunity for students to learn the values of self-discipline, sportsmanship, team building, and academic excellence. BCC 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. BCC currently fields teams in men's and women's basketball, 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 http://www.broward.edu/.

Student Publications

The Observer

Broward Community 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/.

P'an Ku

P'an Ku is the BCC 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
The magazine is looking for writers, artists, photographers, and anyone else who would like to be part of the staff. No prior experience is needed, only enthusiasm! For more information, call Dr. Patrick Ellingham, Faculty Advisor, at (954) 201-8858 or the editorial office at (954) 201-8044. You can also visit the *Pan Ku* website at [www.broward.edu](http://www.broward.edu).
Student Rights and Responsibilities

Student Code of Conduct Policy and Procedure

Sexual Harassment Policy and Procedure for Students

Sexual Battery/Assault Policy and Procedure for Students

Non-Discrimination and Harassment Policy and Procedure for Students

Student Grievance Policy and Procedure for Non-Instructional Issues

Student Bill of Rights

Dismissal of Disruptive Students Policy and Procedure
Student Rights and Responsibilities

Student Code of Conduct

The Student Code of Conduct outlines acceptable and unacceptable behavior for BCC students, as well as appropriate disciplinary procedures and sanctions.

Upon admission to Broward Community College, students 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 shall observe local, state, and federal laws as well as the academic and behavioral regulations found in the Broward Community College Student Handbook, the College Catalog, other official publications, and the BCC web site at http://www.broward.edu.

Any student or student organization found to have committed the following misconduct, on or off campus, is subject to the disciplinary sanctions outlined in Student Code of Conduct Procedures.

1. Dishonesty, including but not limited to the following:
   a. Cheating, plagiarism, or other forms of academic dishonesty.

   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 or information 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.

   b. Furnishing false information to any BCC official or faculty member.

   c. Forgery, alteration, or misuse of any BCC document, record, or instrument of identification.

   d. Tampering with the election of any recognized BCC student organization.

2. Disruption: disruption or obstruction of teaching, research, administration, disciplinary proceedings, other BCC activities, including its public-service functions on or off campus, or other authorized non-BCC activities, when the act occurs on BCC premises.

3. Abuse: 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.

4. Theft or damage to property: attempted or actual theft of and/or damage to BCC property or the property of a member of the BCC community or other personal or public property.

5. Discrimination as defined in BCC Policy 6Hx2-5.22.

6. Sexual Harassment as defined in BCC Policy 6Hx2-5.20.

7. Sexual Battery/Assault as defined in BCC Policy 6Hx2-5.20.

8. Hazing as defined in Florida State Statute 240.1325

9. Non-compliance with directions: failure to comply with directions of BCC officials or law enforcement officers acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.

10. Keys: unauthorized possession, duplication, or use of keys to any BCC premises or unauthorized entry to or use of BCC premises.

11. Violation of published BCC policies/procedures, rules or regulations.

12. Violation of law: violation of federal, state or local law on BCC premises or at BCC sponsored or supervised activities.

13. Controlled substances: use, possession, or distribution of narcotic or other controlled substances except as expressly permitted by law. Smoking in classrooms, on elevators, and in other designated non-smoking areas is prohibited.

14. Alcohol: use, possession, or distribution of alcoholic beverages except as expressly permitted by law and BCC regulations.

15. Public intoxication.

16. Weapons and dangerous materials: illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on BCC premises.

17. Unauthorized demonstration: participation in a campus demonstration which disrupts the normal operations of BCC and infringes on the rights of other members of the BCC community, 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, on campus.

18. Obstruction of movement: obstruction of the free flow of pedestrian or vehicular traffic on any BCC premises or at BCC sponsored or supervised functions.

19. Disorderly conduct: conduct which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to breach the peace on BCC premises or at functions sponsored by, or participated in by BCC.

20. Computer usage:
   a. unauthorized entry into a file, to use, read, or change the contents, or for any other purpose.
   b. unauthorized transfer of a file.
   c. unauthorized use of another individual's identification and password.
   d. use of computing facilities to interfere with the work of another student, faculty member, or BCC official.
   e. use of computing facilities to send or receive obscene or abusive messages.
   f. use of computing facilities to interfere with the normal operation of BCC computing system.

21. False representation: contracting or representation in the name of the College.

22. Abuse of the student discipline system, including but not limited to:
   a. failure to appear before the chief student affairs officer, Hearing Officer, Student Conduct Committee, or other BCC 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. false accusations of student misconduct knowingly 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.

23. Bribery: offering or giving money or any item or service to a BCC employee for the purpose of attempting to obtain assistance that would not have otherwise been provided.

24. Violation of law and BCC discipline.
   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 BCC community and/or disrupts the educational mission of the College.

b. BCC 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, BCC 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, BCC may advise off-campus authorities of the existence of the Student Code and of how such matters will be handled internally within the BCC community.

d. BCC will cooperate fully with law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives, as they deem appropriate.

Consequences Based on Academic Dishonesty

Breaches of the College's policies pertaining to academic dishonesty 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 a particular course. Additionally, the student may be referred to the chief student affairs officer of the campus/center for violations of the Student Code of Conduct.

Student Organizations

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 of the following conditions apply:

1. the offense occurred at an event that was sanctioned by an officer of the organization.
2. organizational funds are used to finance the activity;
3. the event where the offense occurred is substantially supported by the organization's membership;
4. members with knowledge of the forthcoming violation did not attempt to prevent the infraction;
5. the organization fails to report or chooses to protect the individuals(s) alleged to have committed the offense.

Recording Prohibition

Students may not make an audio or video recording of an instructor or speaker unless prior consent of the
Article I: Sanctions

1. A student, student organization, or complainant may appeal the sanctions imposed by the chief student affairs officer of the campus/center to the Vice President for Student Affairs. Such appeals shall be in writing and shall be delivered to the Vice President for Student Affairs within five business days of the receipt of the sanctions from the campus/center chief student affairs officer. A student may appeal grades received involving allegations of academic dishonesty as outlined in BCC Policy 6Hx2-4.19 and Procedure AgHx2-4.19.

2. If a student appeals the decision of the chief student affairs officer to the Vice President for Student Affairs, the chief student affairs officer shall decide if sanctions shall be in effect immediately or pending the outcome of the appeal process. If the student or student organization poses a threat to any person, is unruly, disruptive, uncontrollable, damages or threatens to damage any property, or some other very serious condition exists, the chief student affairs officer of the campus/center may suspend the student or organization from activity at BCC immediately, and have the student escorted off BCC property.

3. The chief student affairs officer will forward all necessary paperwork to the Vice President, including but not limited to all incident reports filled out by BCC personnel, all security reports, any witness statements, and any police reports.

4. If the matter is referred to the Vice President for Student Affairs, he/she will decide if the matter will be heard and notify the student or student organization in writing of his/her decision. If the matter will be heard, the Vice President for Student Affairs will refer the case to the Student Conduct Committee. The Student Conduct Committee is a sub-committee of the Academic Standards Committee. The Student Conduct Committee shall consist of six members chosen from the Academic Standards Committee. A Hearing Officer shall be selected by the Vice President for Student Affairs from among the six members of the Student Conduct Committee. The Hearing Officer shall
1. Hearings normally shall be conducted in private. At the discretion of the Hearing Officer, a representative of the student press may be admitted, but shall not have the privilege of participating in the hearing.
2. In hearings involving more than one accused student, the Hearing Officer of the Student Conduct Committee, at his or her discretion, may permit the hearings concerning each student to be conducted separately.
3. The complainant and the accused have the privilege of being assisted by any advisor they choose, at their own expense. The advisor may be an attorney. The complainant and/or the accused are responsible for presenting his or her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing before a Student Conduct Committee.
4. The complainant, the accused, and the Student Conduct Committee shall have the privilege of presenting witnesses, subject to the right of cross-examination by the Student Conduct Committee.
5. The student or student organization must notify the Hearing Officer of any witnesses and/or evidence they wish to present, at least three business days prior to the hearing.
6. Pertinent records, exhibits, and written statements may be accepted as evidence for consideration by a Student Conduct Committee at the discretion of the Hearing Officer.
7. All procedural questions are subject to the final decision of the Hearing Officer.
8. At the discretion of the Hearing Officer, the accused may have the privilege of facing the accuser.
9. There shall be a single verbatim record, such as a tape recording, of all hearings before a Student Conduct Committee. The record shall be the property of BCC.
10. After the hearing, the Student Conduct Committee shall determine by majority vote if the student has violated the section(s) of the Student Code that the student is charged with violating.
11. The Student Conduct Committee's determination shall be made on the basis of whether it is more likely than not that the accused student violated the Student Code.

12. If the Student Conduct Committee determines that a violation(s) of the Student Code has occurred, they will vote on sanction(s) to recommend to the Vice President for Student Affairs. The recommended sanction(s) of the Student Conduct Committee may be more or less severe than those originally imposed by the chief student affairs officer.
13. The Vice President for Student Affairs, after receiving the recommendation of the Hearing Officer, shall impose sanctions on the student or student organization. Sanctions shall be delivered to the student in writing.
14. Except in the case of a student charged with failing to obey the summons of a Student Conduct Committee or BCC official, no student may be found to have violated the Student Code solely because the student failed to appear before a Student Conduct Committee. In all cases, the evidence in support of the charges shall be presented and considered.
15. A quorum for the Student Conduct hearing will be the Hearing Officer and three members of the Student Conduct Committee.

Article V: Interpretation and Revision
1. Any question of interpretation regarding the Student Code shall be referred to the Vice President for Student Affairs or his or her designee for final determination.
2. The Student Code shall be reviewed periodically at the discretion of the Vice President for Student Affairs.

Sexual Harassment Policy for Students

As established in Broward Community College Policy 6Hx2-3.31, Sexual Harassment, the College intends to protect all employees and students from sexual harassment. In accord with the definitions in that policy, any student who engages in the sexual harassment of any officer, employee, student, or agent of the College shall be subject to disciplinary action.

Sexual Harassment Procedure for Students

The Non-Discrimination and Harassment Procedure for Students, A6Hx2-5.22, is the appropriate procedure to file a complaint of sexual harassment.

Sexual Battery/Assault Policy for Students

No student may commit or attempt a sexual battery/assault against any student or employee of the College or against any person at a College sponsored or supervised activity. In addition to any criminal or civil actions that may be pending or in process, the College may pursue a separate disciplinary action against any student believed to have committed or attempted a sexual battery as defined in Broward Community College Policy 6Hx2-3.32, Sexual Battery/Assault.
Sexual Battery/Assault Procedure for Students

The President has delegated responsibility for administering this procedure to the Campus Deans of Student Affairs. Any violation of Broward Community College Policy 6Hx2-5.20, Sexual Harassment/Battery/Assault, on campus or at College-sponsored events, shall be reported immediately to the campus/provost center chief student affairs officer or the campus Provost and/or the Campus Security Office. The chief student affairs officer shall immediately confer with the Vice President for Student Affairs and notify appropriate law enforcement agencies. The investigation of sexual battery/assault shall be the responsibility of law enforcement personnel. College personnel shall assist by processing evidence, providing names of witnesses, offering counseling support to victims and their families and arranging referrals to community agencies as necessary.

In order to alleviate rumors and promote understanding and calm, the campus provost/center director, in coordination with the Director of College Relations, shall also provide information to the campus community about the incident.

In the event an alleged perpetrator of a sexual battery/assault is an enrolled student, the chief student affairs officer, campus provost/center director, and the Vice President for Student Affairs shall first consult with law enforcement personnel and the College attorney and then decide whether immediate suspension from the College is warranted, pursuant to College regulations. The campus provost/center chief student affairs officer shall answer inquiries from students about procedures as they apply to students.

In the case of off-campus violations of this policy involving students, the chief student affairs officer, campus provost/center director and Vice President for Student Affairs may assist law enforcement personnel consistent with the Family Educational Rights and Privacy Act and applicable Florida Statutes. Victim counseling and other support shall also be provided according to the needs of the victim and family members.

Non-Discrimination and Harassment Policy for Students

General Statement: Federal and state laws protect students and student applicants against discrimination.

1. Broward Community College affirms its commitment to ensure that each student shall be permitted to study and otherwise participate in the BCC community in an environment free from any form of illegal discrimination, including race, color, religion, age, disability, sex, sexual orientation, national origin, marital status, and veteran status. The College recognizes its obligation to work towards a community in which diversity is valued and opportunity is equalized. This rule establishes procedures for a student to file a complaint of the alleged discrimination or harassment.

2. It shall be a violation of this policy for any officer, employee, or agent of the College to discriminate against or harass, as hereinafter defined, any student or student applicant. Discrimination and harassment are forms of conduct that shall result in disciplinary or other action as provided by the rules of the College.

Definitions:

1. For the purpose of this policy, discrimination and harassment are defined as treating any student or student applicant differently than others are treated based upon race, color, religion, age, disability, sex, sexual orientation, national origin, marital status, or veteran status.

2. Conduct that falls into the definition of discrimination includes, but is not limited to:
   a. disparity of treatment in educational programs and related support services on the basis of membership in one of the listed groups;
   b. limitation in access to participation in athletic, social, cultural or other activities of the College because of membership in one of the listed groups;
   c. discrimination of the foregoing types on the basis of sex, unless based on legal distinctions in needs for restrooms, athletics, and other such areas;
   d. retaliation for filing complaints or protesting practices that are prohibited under this policy.

3. Conduct that falls into the definition of harassment includes, but is not limited to, harassment based on race, color, religion, age, disability, sex, sexual orientation, national origin, marital status, or veteran’s status. For harassment on the basis of sex, see Policy 6Hx2-5.20, Sexual Harassment). Within the context of this policy, harassment is defined as conduct that unreasonably interferes with a student or student applicant’s status or performance by creating an intimidating, hostile, or offensive environment. It includes offensive or demeaning language or treatment of an individual where such language or treatment is based typically on prejudicial stereotypes of a group to which an individual may belong. It includes, but is not limited to, objectionable epithets, threatened or actual physical harm or abuse, or other intimidating or insulting conduct directed against the individual.

4. Scope of prohibitions: activities covered under this policy include, but are not limited to, all educational, cultural and social activities occurring on campus or sponsored by BCC.

Non-Discrimination and Harassment Procedure for Students

Administration. The campus chief student affairs officer on each campus/center shall administer procedures as they apply to students. The campus chief student affairs officer shall answer inquiries regarding procedures contained in policy and may provide informal advice to students who are unsure whether they have been victims of discrimination or harassment.

Informal Complaints. Any student or applicant for admission to the College who believes that he/she has been the subject of discrimination or harassment may seek advice or consultation from the campus chief student affairs officer or a Counselor who may informally
advise the complainant in formulating a plan for resolution of the problem. Should the problem not be resolved satisfactorily using the informal process, the complainant shall have 30 days to file a formal complaint.

**Formal Complaints.** A formal complaint must be made in writing and submitted to the Campus Provost/Center Administrator. The written complaint shall contain the name of the complainant and state the nature of the act(s) complained of, including such details as the name of the alleged offender(s) and the date(s) on which the offending act(s) occurred, the name(s) of any witnesses, and the desired resolution(s). A formal complaint must be filed within 180 days of the alleged act(s) of discrimination or harassment or within 30 days following the informal complaint resolution.

The Campus Provost/Center Administrator may attempt resolution during the course of an investigation of a complaint. The Campus Provost/Center Administrator shall involve the campus chief student affairs officer in the investigation of all student/student and student/employee complaints.

If resolution of the complaint was achieved between the parties and the alleged offender fails to abide by the agreement or retaliates against the alleged victim, the Campus Provost/Center Administrator may require the complaint to proceed as if resolution had not been reached.

If the complaint involves the Campus Provost/Center Administrator or if the complainant believes that the Campus Provost/Center Administrator may lack impartiality, the complainant may choose to file a formal complaint with the Vice President for Student Affairs and Enrollment Management.

**Resolution.** The Campus Provost/Center Administrator may provide a reasonable resolution to the complaint and may also recommend or take disciplinary action against the alleged offender. Disciplinary action shall be taken in accordance with the Student Code of Conduct in the case of a student, or in accordance with the policies and procedures affecting the class of employee, consistent with the terms of any applicable collective bargaining agreement.

**Prohibition of Retaliation.** No College student or employee shall retaliate against a complainant. Any attempt to retaliate against a student, employee, or agent for initiating a complaint shall be treated as a separate incident of discrimination or harassment.

**Confidentiality.** All complaints of discrimination, harassment, or retaliation and investigations of the same will be kept as confidential as possible to the extent allowed by law.

**Frivolous or Malicious Complaints.** In the event that a claim of discrimination, harassment or retaliation is found to be frivolous or malicious, appropriate College sanctions, including disciplinary action as appropriate, shall be taken against the complainant.

**Concurrent Grievance.** Nothing contained in this procedure shall affect the right of a complainant to pursue the matter with an appropriate external agency.

**Grievance Procedure for Students for Non-Instructional Issues**

The following steps are established to provide a fair review of student non-instructional grievances.

**Informal Resolution.** The student shall formally submit his/her grievance, either verbally or in writing, to the supervisor of the department where the alleged improper application of College policy or procedure occurred. The student must submit his/her grievance within 30 calendar days after the incident is alleged to have occurred and the grievance must refer to the specific College Policy or Procedure that was unfairly or misapplied. Students may choose to either ask for a specific action on the part of the College or are free to simply voice their grievance without asking for any action on the part of the College.

**Formal Resolution.** If a satisfactory resolution cannot be reached with the supervisor of the department, the student may formally appeal the decision, in writing, to the next higher level supervisor. The student must submit his/her grievance within 30 calendar days after a response is received from the informal process. Appeals to higher levels of authority end with the appropriate campus provost/center director, or appropriate vice president.

The Vice President for Student Affairs may serve as a liaison between students and staff at all levels of the grievance process.

**Student Bill of Rights**

Broward Community College students should expect quality instruction delivered by a dedicated faculty engaged in continued professional growth (BCC Policy 6Hx2-2.05: Philosophy and Mission of the College). Broward Community College students are granted the following rights as outlined in BCC Policies and Procedures, the Student Handbook, College Catalog, and other appropriate publications of the College.

**Access to Education:** Broward Community College maintains an open door to all students who qualify according to the BCC admission standards.

**Sources:**

- BCC Policy 6Hx2-2.05: Philosophy and Mission of the College
- BCC Policy 6Hx2-5.01: Admission
- BCC Policy 6Hx2-5.09: Service to Student with Disabilities
- BCC Policy 6Hx2-5.11: Student Financial Services Programs

**Fairness in Grading:** Students will receive a syllabus outlining relevant course policies regarding attendance and grading procedures during the first week of instruction. Students may appeal final grades that they
consider a misapplication of College Policy or the course syllabus.
Sources:
• BCC Policy 6Hx2-4.18: Class Attendance
• BCC Policy 6Hx2-4.19: Grades and Grade Appeal Process

Due Process When Charged With Violation of Student Code of Conduct: Students have the right to due process when charged with a violation of the Student Code of Conduct.

Source:
• BCC Policy 6Hx5-5.02: Student Code of Conduct

Non-discrimination and Harassment: Students have a right to be free from illegal discrimination and harassment based on race, color, religion, disability, sex, sexual orientation, national origin, marital status, and veteran’s status.
Sources:
• BCC Policy 6Hx2-5.02: Student Code of Conduct
• BCC Policy 6Hx2-5.20: Sexual Harassment/Battery/Assault
• BCC Policy 6Hx2-5.22: Non-Discrimination and Harassment Policy for Students

Confidentiality of Records: The College protects the rights of students and their parents or guardians with respect to the confidentiality of student records. Student records may be released to third party individuals only as their requests comply with federal, state, or local laws, court orders and subpoenas, and circumstances involving the safety of persons or property.
Source:
• BCC Policy 6Hx2-5.03: Student Records

Student Publications: Students have the right to participate in free and responsible journalism at BCC.
Source:
• BCC Policy 6Hx2-5.04: Student Publications

Association and Assembly: Students have the right to form student organizations and may peacefully assemble on BCC property per the guidelines set forth in BCC Policy.
Sources:
• BCC Policy 6Hx2-5.02: Student Code of Conduct
• BCC Policy 6Hx2-5.13: Student Life

Instructional/Non-instructional Issues: BCC provides policies and procedures for students to address instructional and non-instructional issues. Students shall follow the steps outlined in the following policies and procedures. Students are not precluded from appealing issues not specifically identified below.
Sources:
• BCC Policy 6Hx2-4.02: Academic Load

• BCC Policy 6Hx2-4.03: Applicable Catalog/Recency of Credit
• BCC Policy 6Hx2-4.04: CLAST Waivers
• BCC Policy 6Hx2-4.05: Cancellation of Previous Unsatisfactory College Record for A.S. Degree and Certificate Students
• BCC Policy 6Hx2-4.07: Completion of Graduation Requirements After Transfer
• BCC Policy 6Hx2-4.09: Substitution Admission and Graduation Requirements for Student with Disabilities BCC Policy 6Hx2-4.11: Program Acceleration
• BCC Policy 6Hx2-4.18: Class Attendance
• BCC Policy 6Hx2-4.19: Grades and Grade Appeal Process
• BCC Policy 6Hx2-4.20: Religious Observances
• BCC Policy 6Hx2-5.01: Admissions
• BCC Policy 6Hx2-5.02: Student Code of Conduct
• BCC Policy 6Hx2-5.20: Sexual Harassment/Battery/Assault
• BCC Policy 6Hx2-5.22: Non-Discrimination and Harassment Policy for Students
• BCC Policy 6Hx2-5.23: Grievance Process for Students for Non-Instructional issues

Dismissal of Disruptive Students Policy

Students who cannot conform to the standards of appropriate behavior as set forth in Broward Community College Policy 6Hx2-5.02, Student Responsibilities, shall not be permitted to interfere with other students’ access to a college education. Broward Community 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 published laws, ordinances, or policies and procedures may subject the violator to 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. The Vice President for Student Affairs is authorized to enforce suspension or removal decisions, including the use of appropriate legal processes. Nonviolent student dissent does not fall under the purview of this policy.

For students who exhibit disruptive behavior serious enough to merit disciplinary action, the College may refer the students for appropriate psychological/psychiatric evaluation. The College shall retain the services of a psychological/psychiatric evaluator to assess the behavior and psychological condition of students who exhibit disruptive behavior or threaten bodily harm to themselves or others or exhibit severely disoriented perceptions and/or behaviors. Alternatively, College counselors may be used to assist students who exhibit less severe disruptive behavior.

All records associated with the treatment or disciplinary process shall be kept confidential. Students treated for a mental disorder under this policy are protected by the Americans with Disabilities Act of 1991 and Section 504 of the Rehabilitation Act of 1973.
Students suspended under this policy shall 1) receive a 100% refund for the term during which they were suspended, and 2) re-enroll only after certification by a licensed clinical psychologist or psychiatrist, a recommendation from a campus Dean of Student Affairs, and approval by the Vice President for Student Affairs.

_Dismissal of Disruptive Students Procedure_

All referrals for immediate intervention with a disruptive student will be made to the appropriate campus/center chief student affairs officer, consistent with BCC Policy 6Hx2-5.19, Dismissal of Disruptive Students. The campus chief student affairs officer will assess the student's condition, and if further evaluation is needed he/she will consult with the Vice President for Student Affairs and Enrollment Management. The campus/center chief student affairs officer and Vice President will determine whether an evaluation with an agency consultant is necessary, and the Vice President or his/her designated representative will make the referral to a professional clinician for psychological and/or psychiatric evaluation. The campus/center chief student affairs officer may decide not to allow the student onto campus prior to the results of professional evaluation.

The student will be informed by the campus/center chief student affairs officer of the reason(s) that he/she is being referred for the initial evaluation and whether the College would assume the expense for this evaluation. The results of the evaluation will be used by the Vice President, and the campus/center chief student affairs officer, in determining the student's enrollment status with the College.

The College will retain the services of professional clinicians who:

1. Are state licensed and have appropriate credentials in the field of mental health, according to State of Florida guidelines.
2. Will provide a written evaluation and diagnosis of the student in a timely manner following referral.
3. Will provide information regarding follow-up treatment if necessary.
4. Have the ability and available personnel to provide immediate crisis intervention, if the severity of the incident or client's condition so warrants.

_Re-entry Process:_ If a student, who has been removed from the College under the Disruptive Student Policy, applies for re-entry to the College, the following process will be followed:

1. The campus/center chief student affairs officer must be contacted by the student regarding her/his request for re-entry to the College. The campus/center chief student affairs officer, in consultation with the Vice President for Student Affairs, shall determine if a student will be allowed to return to BCC. Students who are considered likely to disrupt the educational environment or who pose a threat to persons or property will not be re-admitted.

2. If a student does not agree with the decision made by the campus/center chief student affairs officer, he/she may appeal to the Vice President for Student Affairs and Enrollment Management.
Academic Programs and Graduation Requirements

College Preparatory Program

English as a Second Language Program

Associate in Arts Degree

The Gordon Rule

College Level Academic Skills Test (CLAST)

Transfer Guarantees

Associate in Science Degree

Associate in Applied Science Degree

Certificate Programs
Academic Programs and Graduation Requirements

**College Preparatory Program**

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

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<th>Math</th>
<th>English</th>
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**College Prep Placement**

College prep course requirements are determined on the basis of a student’s placement test scores. All students entering BCC must take the Florida College Placement Test (CPT) or submit a State of Florida college-ready diploma or acceptable Advanced Placement, SAT or ACT scores that exempt them from the college prep program or they must submit college transcripts that show the completion of Freshman English and/or Intermediate Algebra. Students who test into college prep courses must successfully complete all of the required coursework to qualify for graduation.

**Placement Test Options**

For students admitted after October 1, 1991:

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)

Students admitted after July 31, 1995, may also use the Florida College Entry-Level Placement Test (FCELPT).

A student having an initial CPT, ACT or SAT score that indicates college prep placement and who has begun his/her prep course work at BCC may retest with the CPT for placement every 90 days. A fee will be charged for each re-test with the CPT. Retesting is prohibited if the student is currently enrolled in the discipline for which he/she wishes to retest. Exceptions may be made by the appropriate academic administrator.

**College Prep Credit**

College prep courses carry credit, but the credits cannot be used to satisfy degree requirements. However, these credits do count toward veteran’s benefits and financial aid requirements.

**Admission to the College Prep Program**

Students should contact any Counseling and Advisement Office to arrange for placement testing or to discuss their existing placement test scores.

**Enrolling in College Prep Courses**

Students who are required to take college prep courses, as a result of their placement test scores on the SAT, ACT, or CPT, 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 prep 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 prep reading course during their first term.
- Students who test into REA0001C are required to register for it during their first term.
- Students who test into REA0006C are required to register for it during their first term.
- Students are required to take the highest level of prep reading (REA0006C) the term immediately after successful completion of the lowest level of college prep reading (REA0001C).
- Students testing into three college prep disciplines (ENC, MAT, or REA) are required to satisfactorily complete the college prep reading sequence (REA0001C and/or REA0006C) before registering for a college prep math course (MAT0012 or MAT0024).
- Students testing into at least two college prep 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 BCC 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 prep courses, with 2 prep courses at the lowest levels (ENC0010, MAT0012, and REA0001C), 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 Community 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 prep students who are seeking degrees and have not previously attended college. Students must meet with an Academic Advisor in any Counseling and Advisement Office regarding proper course selections, sequencing, and requirements.

Private Providers
Students have the option of pursuing college prep 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 CPT prior to enrolling in college-level courses.

Note: Private providers are not affiliated with the BCC and the College neither endorses nor warrants their services. BCC 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 prep course. Students may not "audit" college prep 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 Student Affairs 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 BCC courses.

Entering the ESL Program
Students who are non-native English speakers should contact any Counseling and 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 in order to maintain a student visa. During their first and second semesters at BCC, 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.

Associate in Arts Degree
Broward Community College offers a wide variety of concentrations within the Associate in Arts degree. More information regarding A.A. options may be obtained from our website at www.broward.edu or from any Academic Advisor.

A.A. 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. If students receive an A.A. Degree from B.C.C., their degree will, in most cases, meet the lower division requirements of a university and admit them to junior-level status. The degree requirements consist of General Education requirements that parallel university requirements and electives in preparation for a major area of study. The A.A. 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 to which 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.

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<td>FAU</td>
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<tr>
<td>UWF</td>
<td>University of West Florida</td>
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A.A. Philosophy of General Education
General Education at Broward Community College is a combination of college-level courses that provides students with the social, technical, and academic competencies they will need to participate effectively in a democratic society and in a global community. Furthermore, this foundation provides students an opportunity to gain an understanding of a variety of cultural and historical heritages, an understanding of the role of the individual in a complex and rapidly changing world, an understanding of the physical universe, and the communication and analytical skills necessary to function effectively. These courses are also a foundation for specific academic and technical programs at the community college and for further education toward a baccalaureate degree.

Expected Educational Results
Graduates of the A.A. program should be able to:
• communicate with others by writing, speaking and listening, and demonstrating skills in reading comprehension;
• perform computations necessary to function effectively in society;
• demonstrate basic computer skills;
• recognize the effects of technology upon society and the environment;
• evaluate social, political and intellectual developments from an historical perspective;
• understand the complexities of the humanities and appreciate the aesthetics of the fine arts;
• think logically, critically, and creatively to solve problems and make decisions;
• demonstrate a sense of personal responsibility, and ethical judgment and behavior;
• appreciate the benefits of a lifelong process of intellectual and cultural growth;
• utilize research skills necessary to gather, analyze, and interpret information;
• function successfully in a changing multi-cultural environment and an interdependent world;
• adopt positive lifestyle behaviors through an application of wellness concepts.

A.A. Degree 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.
• Complete prescribed College Preparatory and ESL Program courses, if required, with a grade of "C" or higher.
• Complete Gordon Rule writing and mathematics requirements (State Board of Education 6A-10.30).
• Achieve a passing score on all four sections of the College Level Academic Skills Test (CLAST) or satisfy CLAST alternative criteria.
• Complete 25% of the prescribed college-level semester credit hours at Broward Community College and be enrolled at BCC during the semester the degree is completed.
• Earn a cumulative degree grade point average of 2.0 or higher at BCC including transfer credits in courses that comprise the A.A. degree.
• Fulfill all financial and other obligations to the College.

A.A. General Education Requirements
Area 1 Communications 9 Credits
Select three courses, one from each category (A, B, C).
A. ENC 1101 Composition 3 Credits
B. ENC 1102 Composition 3 Credits
ENC 2210 Professional and Technical Writing 3 Credits
C. SPC 1024 Introduction to Speech Communication 3 Credits
SPC 1600 Introduction to Public Speaking 3 Credits

Area 2 Humanities/Fine Arts 6 Credits
Select two courses. Choose only one course from each category (A, B, C, D, E, F, G or H).
A. AML 2010 American Literature Colonial to 1900 3
AML 2020 American Literature Since 1900 3
AML 2600 Afro American Writers 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 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
B. FRE 2200 Intermediate French I 4
FRE 2201 Intermediate French II 3
GER 2200 Intermediate German I 4
GER 2201 Intermediate German II 3
HBR 2200 Intermediate Hebrew I 4
HBR 2201 Intermediate Hebrew II 3
SPN 2200 Intermediate Spanish I 4
SPN 2201 Intermediate Spanish II 3
SPW 2010 Studies in Spanish Literature and Culture I 3
SPW 2011 Studies in Spanish Literature and Culture II 3
C. ARH 2000 Art Appreciation 3
ARH 2050 Art History I 3
ARH 2051 Art History II 3
D. THE 2000 Theatre Appreciation 3
Area 3 Social/Behavioral Sciences 6 Credits

A. 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 1000 Western Civilization I 3
   EUH 1001 Western Civilization II 3
   EUH 2032 History of the Holocaust 3
   GEA 2000 World Geography 3
   GEO 2370 Conservation of Natural Resources 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

B. Social/Behavioral Sciences
   ANT 2000 Introduction to Anthropology 3
   ANT 2100 Introduction to Archaeology 3
   ANT 2211 Introduction to World Ethnology 3
   ECO 2013 Principles of Economics I 3
   PSY 2012 General Psychology 3
   SYG 2000 Principles of General Sociology 3
   SYG 2010 Social Problems 3
   SYG 2441 Social Institutions 3

C. Biological/Physical Sciences Labs
   BOT 2010 General Botany 3
   BSC 1005 General Biology 3
   BSC 1010L Introduction to Biology I Lab 1
   BSC 1010L General Biology Lab 1
   BSC 1011L Introduction to Biology II Lab 1
   BSC 1011L General Biology Lab 1
   BSC 1085L Human Anatomy and Physiology I Lab 1
   BSC 1086L Human Anatomy and Physiology II Lab 1
   CHM 1040 General Chemistry A 3
   CHM 1041 General Chemistry B 3
   CHM 1045 General Chemistry I 3
   CHM 1045L General Chemistry I Lab 1
   CHM 1046 General Chemistry II 3
   CHM 1046L General Chemistry II Lab 1
   CHM 1046E General Chemistry C 3
   GLY 1010 Physical Geology 3
   GLY 1010L Physical Geology Lab 1
   GLY 1100L Historical Geology Lab 1
   GLY 1100 Historical Geology 3
   MCB 2010 Microbiology 3
   MCB 2010L Microbiology Lab 1
   PHY 2048L General Physics with Calculus I Lab 1
   PHY 2048L General Physics with Calculus I 4
   PHY 2049L General Physics with Calculus II Lab 1
   PHY 2049L General Physics with Calculus II 4
   PSC 1121L Physical Sciences Lab 1

Area 4. Science/Wellness 8 Credits

Science 7 Credits
   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 area below, one of which must be a laboratory course.

A. Biological Sciences
   BOT 2010 General Botany 3
   BSC 1005 General Biology 3
   BSC 1010L Introduction to Biology I Lab 1
   BSC 1010L General Biology Lab 1
   EVR 1009 Environmental Science 3
   ZOO 2010 General Zoology 3

B. 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 3
   CHM 1045 General Chemistry I 3
   EVR 1009 Environmental Science 3
   ESC 1000 Earth Science 3
   GLY 1010 Physical Geology 3
   GLY 1100 Historical Geology 3
   OCE 1001 Introductory Oceanography 3
   PHY 1001 Applied Physics 3
   PHY 2048L General Physics with Calculus I Lab 1
   PHY 2048L General Physics with Calculus I 4
   PHY 2053 General Physics I 3
   PSC 1121L Physical Sciences Lab 1

Students majoring in science, science-related or health-related fields may take any combination of seven credits as designated by their major, including one laboratory course, from the following list.

   BOT 2010 General Botany 3
   BOT 2010L General Botany Lab 1
   BSC 1005 General Biology 3
   BSC 1010L Introduction to Biology I Lab 1
   BSC 1010L General Biology Lab 1
   BSC 1011L Introduction to Biology II Lab 1
   BSC 1011L General Biology Lab 1
   BSC 1085L Human Anatomy and Physiology I Lab 1
   BSC 1086L Human Anatomy and Physiology II Lab 1
   CHM 1040 General Chemistry A 3
   CHM 1041 General Chemistry B 3
   CHM 1045 General Chemistry I 3
   CHM 1045L General Chemistry I Lab 1
   CHM 1046 General Chemistry II 3
   CHM 1046L General Chemistry II Lab 1
   CHM 1046E General Chemistry C 3
   GLY 1010 Physical Geology 3
   GLY 1010L Physical Geology Lab 1
   GLY 1100L Historical Geology Lab 1
   GLY 1100 Historical Geology 3
   MCB 2010 Microbiology 3
   MCB 2010L Microbiology Lab 1
   PHY 2048L General Physics with Calculus I Lab 1
   PHY 2048L General Physics with Calculus I 4
   PHY 2049L General Physics with Calculus II Lab 1
   PHY 2049L General Physics with Calculus II 4
   PSC 1121L Physical Sciences Lab 1
PHY 2053 General Physics I 3
PHY 2053L General Physics I Lab 1
PHY 2054 General Physics II 3
PHY 2054L General Physics II Lab 1
ZOO 2010 General Zoology 3
ZOO 2010L General Zoology Lab 1

NOTE: In combined courses, such as BSC 1010C and BSC 1011C, students will satisfy requirements for a three-credit science lecture and a one-credit science laboratory course. Check Catalog course descriptions for pre or co-requisites.

D. Wellness 1 Credit
HSC 1101C Introduction to Healthful Living

NOTE: No exemptions shall be permitted from the Wellness requirement 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.

Area 5 Mathematics 7 Credits

A. Mathematics 6 Credits
MAC 1105 College Algebra 3
MAC 1114 Trigonometry 3
MAC 1140 Pre-Calculus Algebra 3
MAC 1147 Pre-Calculus Algebra & Trigonometry 5
MAC 2233 Business Calculus 3
MAC 2311 Calculus and Analytical Geometry I 5
MAC 2312 Calculus and Analytical Geometry II 5
MAC 2313 Calculus and Analytical Geometry III 4
MAD2104 Discrete Mathematics 3
MAP 2302 Differential Equations 3
MAS 2103 Linear Algebra 3
MGF 1106 Liberal Arts Mathematics I 3
MGF 1107 Liberal Arts Mathematics II 3
STA 2023 Statistics 3

NOTE: A grade of “C” or higher in these courses must be achieved to satisfy this requirement.

B. Computer Competency 1 Credit
CGS 1061C Computer Concepts

TOTAL (Areas 1-5) 36 Credits

Area 6 Programmatic Electives 24 Credits

These may include any combination of college level courses recommended/required for a discipline major and/or courses from the General Education offerings (English/Communications, Humanities, Mathematics, Science, Social and Behavioral Science). Excluded are college preparatory courses and courses designed especially for technical education curricula. 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. Please consult with an Academic Advisor.

Area 7 Writing Requirement
In keeping with the Gordon Rule, all students must take one course from 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.

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.

Area 8 International/Intercultural 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.

All Foreign Language Courses
AMH 2091 History of the African American 3
AML 2600 Afro American Writers 3
AML 2610 Hispanic American Literature 3
ANT 2000 Introduction to Anthropology 3
ANT 2211 Introduction to World Ethnology 3
ARH 2000 Art Appreciation 3
ARH 2050 Art History I 3
ARH 2051 Art History II 3
ENL 2012 British Literature 3
ENL 2022 British Literature 3
EUH 1000 Western Civilization I 3
EUH 1001 Western Civilization II 3
GEA 2000 World Geography 3
GEO 1000 Introduction to Geography 3
GEO 2370 Conservation of Natural Resources 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
LIT 2020 Introduction to the Short Story 3
LIT 2110 World Literature Through Renaissance to Present 3
LIT 2120 World Literature Renaissance to Present 3
MUH 2111 Music History and Literature 3
MUH 2112 Music History and Literature 3
MUL 2010 Music Appreciation 3
REL 2300 World Religions 3
SYG 2441 Social Institutions 3
WOH 2040 World in the 20th Century 3

The Gordon Rule
State 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
A.A. 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 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.

Mathematics
All students must complete six credit hours at the college algebra level or higher. For most students, the requirements may be met by taking MAC 1105 and MGF 1106. Other options are detailed in Area 5 of the A.A. Degree General Education Requirements. In all Mathematics courses, a grade of “C” or higher is required to meet the A.A. Degree requirements.

College Level Academic Skills Test (CLAST)
All Florida Community College students seeking an A.A. degree must satisfy the CLAST requirement before their degrees are awarded. The CLAST measures college-level communications and math skills and is part of the state’s overall effort to ensure that students have acquired the skills expected in those areas. In accordance with Rule 6A-10.0311, F.A.C. Section 240.107(9), students may not need to take the CLAST if they do not plan to major in Education or receive teacher certification in the State of Florida. Students will qualify for an exemption of the CLAST if they meet one of the conditions below.

- You will not have to take the English, Reading and Essay subtests if you earn a cumulative GPA of at least 2.5 in ENC 1101, ENC 1102 or ENC 2210.
- You will not have to take the Math subtest if you earn a cumulative GPA of at least 2.5 in the two college-level math courses that satisfy the Gordon Rule (MAC 1105 and/or higher-level courses).
- You will not have to take the Communications section of the CLAST if you have a verbal score of at least 500 on the SAT; or a Reading score of at least 22 and a Writing score of at least 21 on the ACT.
- You will not need to take the Computation section of the CLAST if you have a Math score of at least 500 on the SAT or a Math score of at least 21 on the ACT.

The total testing time for CLAST is approximately five hours, which includes the time required for arrival, instructions, and a break. The time allotted for each subtest is as follows.

- Essay: 60 minutes
- English Language Skills and Reading: 80 minutes
- Mathematics: 90 minutes

Retake examinees are allowed double time for each subtest.

Passing Scores
The scores listed below are official minimum requirements, October 1, 1992 and thereafter.

- Essay: 6
- English Language Skills: 295
- Reading: 295
- Mathematics: 295

Registration Deadlines and Test Dates

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<td>October 7, 2006</td>
</tr>
<tr>
<td>January 19, 2007</td>
<td>February 17, 2007</td>
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<tr>
<td>May 4, 2007</td>
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</table>

Registration/Administration
Students enrolled in Broward Community College register for CLAST in the same manner as other courses. The paper and pencil CLAST administration is offered three times per year at designated locations. Your registration schedule and two types of identification, one of which must be a photo identification, will be required for admission to the test site. Several soft-leaded pencils with erasers and a ballpoint pen are required. No fees are charged for regular degree-seeking students. The following conditions and pre-requisites apply.

You must be a degree-seeking student with at least 18 hours completed.

1. You must have a minimum GPA of 2.0.
2. You must have a “C” or higher in ENC 1101.
3. You must have a “C” or higher in MAT 1033 or a higher-level course.
4. If Reading was required, you must have a “C” or higher in ENC 2210 or in a higher-level course.
5. Special pre-requisites are required before registering for a retest in any subtest area.
   (See Retake Procedure below.)
6. Students with learning disabilities may request special accommodations, if necessary, to take the CLAST. Please call the Disability Services Coordinator, (954) 201-7555 for more information.

Students taking Essay, English Language Skills and Reading subtests only for the first time should register for CST 0000. Students taking the Math subtest only for the first time should register for CST 0010.

Computerized Version of CLAST
Students may take/retake the computerized version of the Math, English Language Skills, and/or Reading subtests on North Campus. These computerized subtests are offered three times a month and cost $30.00 each. A special application form and appointment are required.

Retake Procedure
Students who do not pass one or more of the CLAST subtests must follow Broward Community College’s Retake Procedures before registering to retake CLAST. Students may not retake any subtests for which they already have a passing score. Please note that you must not repeat testing within a 30-day period, as your
scores will be invalidated by the Department of Education.

**Retake Subtest Course Numbers**
- CST 0001 Math
- CST 0002 Essay
- CST 0003 English Language Skills
- CST 0004 Reading

**English Retake Procedure**
Students with three hours of college-level English composition must complete a second college-level composition course with a grade of "C" or higher. Students who have already completed six hours of English composition with a grade of "C" or higher must complete the English CLAST Review course, the Independent Study Option, or LIN 1670.

**Mathematics Retake Procedure**
Students with three hours of college-level Mathematics must complete a second college-level Mathematics courses (higher than MAT 1033) with a grade of "C" or higher. Students who have already completed six hours of Mathematics (higher than MAT 1033) with a grade of "C" or higher must complete the Mathematics CLAST Review course, the Independent Study Option, or another college-level Mathematics course.

**Reading Retake Procedure**
Students must complete the Reading CLAST Review course, the Independent Study Option, or REA 1105 with a grade of "C" or higher.

**Essay Retake Procedure**
Students with three hours of college-level English composition must complete a second college-level course with a grade of "C" or higher. Students who have already completed six hours of English composition with a grade of "C" or higher must complete the Essay CLAST review course, the Independent Study Option, or another English composition course.

**Instructor-Directed Review Courses**
The following non-credit, instructor-directed review courses are offered prior to each CLAST administration to help students prepare for the CLAST retake.

- ENC 0991 CLAST English Language Skills Review: an English review course to assist students in preparation for the CLAST English Language Skills subtest.
- REA 0991 CLAST Reading Skills: a Reading review course to assist students in preparation for the CLAST.
- MGF 0991 CLAST Mathematics Review: a Mathematics review course to assist students in preparation for the CLAST.

**Independent Review Course Options**
The following non-credit independent study courses are offered through campus Learning Resource Centers to assist students who have been unsuccessful in one or more CLAST subtests.
- ENC 0993 Independent Study for Retake of CLAST – English Language Skills
- ENC 0994 Independent Study for Retake of CLAST - Essay
- REA 0993 Independent Study for Retake of CLAST - Reading
- MGF 0993 Independent Study for Retake of CLAST - Math

**Waiver Procedure**
State Law and Broward Community College Policy (6Hx2-4.05) provide for waivers only for students who have failed at least four times and who otherwise demonstrate proficiency in course work in that academic area. Waivers may also be considered for a student with a specific learning disability such that he/she cannot successfully complete one or more sections of the CLAST but who is otherwise achieving at college level in every other academic areas. Waiver requests must be submitted through the appropriate Academic Dean to the Vice President for Academic Affairs. A College committee will be appointed to consider only cases that fully meet the legal requirements. Waivers for CLAST are very rare and are considered on a case-by-case basis. Waivers are not granted except in conjunction with the awarding of an Associate in Arts degree.

**Transfer Guarantees**
Florida Community College Associate in Arts graduates are guaranteed the following rights when transferring to a State university under the statewide transfer articulation.

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 (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission and International Baccalaureate).
6. No additional General Education Core requirements.
7. Advance knowledge of selection criteria for limited access programs.
8. Equal opportunity with native university students to enter limited access programs.
Associate in Science Degree

Associate in Science Degree Programs
Broward Community College offers a wide variety of concentrations within the A.S. degree. Please visit our web site at www.broward.edu or see an Academic Advisor for assistance.

A.S. Degree Mission Statement
The Associate in Science degree is a career education and transfer degree. 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 apply toward the thirty-six credit hours required for the baccalaureate degree in the State University System. In some areas of study, statewide program-specific articulation agreements have been developed ensuring the transfer of the A.S. degree. The student is advised to see an Academic Advisor for a list of these programs.

A.S. Degree Philosophy of General Education
General Education at Broward Community College is a combination of college-level courses that will provide students with social, technical, and academic competencies they will need to participate effectively in a democratic society and in a global community. Furthermore, this foundation provides students an opportunity to gain an understanding of a variety of cultural and historical heritages, an understanding of the role of the individual in a complex and rapidly changing world, an understanding of the physical universe, and the communication and analytical skills necessary to function effectively. These courses are also a foundation for specific academic and technical programs at the community college and for further education toward a baccalaureate degree.

Expected Educational Results
Graduates of A.S. programs should be able to:
- communicate with others by writing, by speaking and listening, and by demonstrating skills in reading comprehension;
- apply the computational skills appropriate to their chosen occupation;
- apply basic computer skills;
- understand principles of science and technology and be aware of their effects upon society and the environment;
- demonstrate awareness and understanding of the social and behavioral aspects of the world in their chosen occupations;
- understand the complexities of the humanities and to appreciate the aesthetics of the fine arts;
- think logically, critically, and creatively, to solve problems and make decisions;
- demonstrate a sense of personal responsibility, and ethical judgment and behavior;
- appreciate the benefits of life-long learning and professional growth within their field;
- demonstrate knowledge, competencies, and professional behaviors essential to entering a specific career field or advancing within their field;
- apply the skills and attitudes necessary to adapt to changes within their personal and work environments and the global economy;
- apply for certification or licensure examinations, as appropriate.

A.S. Degree 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 and computer competency requirements as specified in the prescribed program.
- 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 Community College and be enrolled at BCC during the semester the degree is completed.
- Earn a cumulative degree grade point average of 2.0 or higher at BCC, including transfer credits, in courses that comprise the A. S. degree.
- Fulfill all financial and other obligations to the College.

A.S. General Education Requirements

<table>
<thead>
<tr>
<th>Area</th>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1</td>
<td>Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENC 1101 Composition</td>
<td></td>
</tr>
<tr>
<td>Area 2</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one course from any of the following: Art, Literature, Modern Foreign Language, Music, Philosophy, Religion and Theatre. Specific courses may be designated by individual programs.</td>
<td></td>
</tr>
<tr>
<td>Area 3</td>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one course from any of the following: Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology. Specific courses may be designated by individual programs.</td>
<td></td>
</tr>
<tr>
<td>Area 4</td>
<td>Mathematics/Natural Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one college-level transferable course from either college-level Mathematics or Natural Sciences.</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics
Any of the following or a higher level course:
Science
Specific courses may be designated by individual programs.

Area 5 Program-Designated Courses 3 Credits
Choose any other college-level course from Areas 2, 3,
or 4, or any college-level course in Speech, Reading,
Computers, Wellness, Science laboratory, or ENC 2210,
Professional and Technical Writing.

TOTAL (Areas 1-5) 15 Credits

Oral and Computer Competencies
Students are also required to meet oral and computer
competency requirements as specified in their particular
A.S. program of study.

Associate in Applied Science Degree

Associate in Applied Science Degree Programs
Broward Community College offers a variety of
concentrations within the A.A.S. degree Please visit our
web site at www.broward.edu or see an Academic
Advisor for assistance.

A.A.S. Mission Statement
The Associate in Applied Science degree is a college-
level career-technical degree. The A.A.S. 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 workforce. The
A.A.S. provides the same career preparation as the A.S.
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.

A.A.S. Philosophy of General Education
General Education at Broward Community College is a
combination of courses that provide students with the
social, technical, and academic competencies they will
need to participate effectively in a democratic society
and in a global community. Furthermore, this foundation
provides students an opportunity to gain an
understanding of a variety of cultural and historical
heritages, an understanding of the role of the individual
in a complex and rapidly changing world, an
understanding of the physical universe, and the
communication and analytical skills necessary to
function effectively. These courses are also a
foundation for specific academic and technical programs
at the community college and for further education
toward a baccalaureate degree.

Expected Educational Results
Graduates of A.A.S. programs should be able to:
• communicate with others by writing, by speaking
  and listening, and by demonstrating skills in reading
  comprehension;
• apply the computational skills appropriate to their
  chosen occupation;
• apply basic computer skills;
• understand principles of science and technology
  and be aware of their effects upon society and the
  environment;
• demonstrate awareness and understanding of the
  social and behavioral aspects of the world in their
  chosen occupations;
• understand the complexities of the humanities and
to appreciate the aesthetics of the fine arts;
• think logically, critically, and creatively, to solve
  problems and make decisions;
• demonstrate a sense of personal responsibility, and
  ethical judgment and behavior;
• appreciate the benefits of life-long learning and
  professional growth within their field;
• demonstrate knowledge, competencies, and
  professional behaviors essential to entering a
  specific career field or advancing within their field;
• apply the skills and attitudes necessary to adapt to
  changes within their personal and work
  environments and the global economy;
• apply for certification or licensure examinations, as
  appropriate.

A.A.S. Degree 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 and
  computer competency requirements as specified in
  the prescribed program.
• 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 Community
  College and be enrolled at BCC during the
  semester the degree is completed.
• Earn a cumulative degree grade point average of
  2.0 or higher at BCC, including transfer credits, in
  courses that comprise the A.A.S. degree.
• Fulfill all financial and other obligations to the
  College.
General Education Requirements for the A.A.S. Degree

Area 1. Communications 3 Credits
ENC 1101 Composition

Area 2. Humanities/Fine Arts 3 Credits
Select one course from any of the following: Art, Humanities, Literature, Modern Foreign Language, Music, Philosophy, Religion, and Theatre. Specific courses may be designated by individual programs.

Area 3. Social/Behavioral Sciences 3 Credits
Select one course from any of the following: Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology. Specific courses may be designated by individual programs.

Area 4. Mathematics/Natural Science 3 Credits
Mathematics:
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
Any other higher-level college mathematics course will also satisfy this requirement.

Science:
Specific courses may be designated by individual programs.

Area 5. Program Designated Courses. 3 credits
Any other college-level course from Areas 2, 3, 4, or any college level course in speech, reading, computers, wellness, science laboratory, or ENC 2210, Professional Writing.

Total (Areas 1-5) 15 credits

Students are also required to meet an oral competency and computer competency requirement as specified in the particular A.A.S. degree of study.

Certificate Programs
BCC offers a variety of concentrations in the various certificate programs. Please visit our web site at www.broward.edu 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 be participating and productive members of the business, professional, governmental, or industrial life of the community.

Expected Educational Results
Graduates of certificate programs should be able to:
• demonstrate knowledge, competencies, and professional behaviors essential to entering a specific career field or upgrading their occupational skills;
• recognize the need for life-long learning and for professional growth within their field; and
• apply for certification or licensure examinations, as appropriate.

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 Community College and be enrolled at BCC during the semester the certificate is completed.
• Earn a cumulative degree grade point average of 2.0 or higher at BCC, including transfer credits, in courses that comprise the Technical Certificate.
• 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 Rule 6A-6.0571. (Students pursuing a vocational certificate who have an A.A. degree and have completed the College Level Communication and Computation Skills Examination (CLAST), or who have met the minimum cut scores on any test listed in the above-mentioned rule, may be exempt from the test requirement.)

• Complete 25% of the prescribed vocational clock/credit hours at Broward Community College and be enrolled at BCC during the semester the certificate is completed.

• Earn a cumulative degree grade point average of 2.0 or higher at BCC, including transfer credits, in courses that comprise the Vocational Certificate. (For certificate programs with only pass-fail grades, earn a passing 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 A.S. or A.A.S. degree. 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 A.S. or A.A.S. 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 Community College and be enrolled at BCC during the semester the diploma is completed.

• Earn a cumulative degree grade point average of 2.0 or higher at BCC, including transfer credits, in courses that comprise the Applied Technical Certificate.

• Fulfill all financial and other obligations to the College.

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 Community College and be enrolled at BCC during the semester the ATC is completed.

• Earn a cumulative degree grade point average of 2.0 or higher at BCC, including transfer credits, in courses that comprise the Advanced Technical Certificate.

• Fulfill all financial and other obligations to the College.
PROGRAMS OF STUDY

Chart of Technical Education Programs

Associate in Applied Science Programs

Associate in Science Programs

Certificate Programs

Diploma Programs
<table>
<thead>
<tr>
<th>Programs of Study</th>
<th>Degree/Certificate</th>
<th>Location</th>
<th>High School Diploma/GED</th>
<th>Test</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Technology</td>
<td>AAS AS C</td>
<td>North, Central, South, HS Diploma/GED</td>
<td>CPT</td>
<td>109</td>
<td></td>
</tr>
<tr>
<td>Architectural Design &amp; Construction Tech.</td>
<td>ATC</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>109</td>
<td></td>
</tr>
<tr>
<td>Automotive Technology Programs</td>
<td>AAS AS Miramar, HS Diploma/GED</td>
<td>CPT</td>
<td>111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aviation Institute</td>
<td>PSAV Certificate South</td>
<td>HS Diploma/GED</td>
<td>TABE</td>
<td>114</td>
<td></td>
</tr>
<tr>
<td>Biomedical Engineering Technology</td>
<td>AAS North, HS Diploma/GED</td>
<td>CPT</td>
<td>119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Construction Technology</td>
<td>AS North, ATC DTC, HS Diploma/GED</td>
<td>CPT</td>
<td>120</td>
<td></td>
<td></td>
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<tr>
<td>Business</td>
<td>AAS AS C North, Central, South</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>121</td>
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</tr>
<tr>
<td>Civil Engineering Technology</td>
<td>AS DTC</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>Computer Engineering Technology</td>
<td>AAS North, HS Diploma/GED</td>
<td>CPT</td>
<td>126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Information Administrator</td>
<td>AAS AS AS North Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>127</td>
<td></td>
</tr>
</tbody>
</table>

AAS-ASSOCIATE IN APPLIED SCIENCE DEGREE \ AS-ASSOCIATE IN SCIENCE DEGREE \ ATC-ADVANCED TECHNICAL CERTIFICATE \ ATD-APPLIED TECHNICAL DIPLOMA \ CHSE-CENTER FOR HEALTH SCIENCES EDUCATION \ WHC-DOWNTOWN HIGHER EDUCATION COMPLEX \ **BAT-BASIC ABILITIES TEST-ADMINISTERED IN THE CRIMINAL JUSTICE TESTING CENTER, CENTRAL \ *THESE PROGRAMS REQUIRE AN ADDITIONAL APPLICATION AND STUDENTS MUST MEET PROGRAM ADMISSION CRITERIA. FOR FURTHER INFORMATION, CALL 954-201-6780 OR SEE PROGRAM OF STUDY CATALOG PAGE.
<table>
<thead>
<tr>
<th>Programs of Study</th>
<th>Degree/Certificate</th>
<th>Location</th>
<th>High School Diploma/GED</th>
<th>Test</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Programming and Analysis</strong></td>
<td>AS</td>
<td>North Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>131</td>
</tr>
<tr>
<td>Applications Programmer</td>
<td>C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Computer Programmer Sun Java Specialist</td>
<td>AS</td>
<td>North Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Software Development</td>
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<td></td>
</tr>
<tr>
<td><strong>Criminal Justice/Institute of Public Safety</strong></td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>133</td>
</tr>
<tr>
<td>Criminal Justice Technology</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>TABE, BAT**</td>
<td></td>
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<tr>
<td>Broward County Correction Officer Academy (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
</tr>
<tr>
<td>Broward County Correction Probation Officer Academy (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
</tr>
<tr>
<td>Broward County Police Academy (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice/Crime Scene Emphasis</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Law Enforcement Officer – Crossover from Correction Officer (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
</tr>
<tr>
<td>Law Enforcement Officer – crossover From Correctional Probation Officer (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
</tr>
<tr>
<td>Police Service Aide Academy (Restricted Admission)</td>
<td>PSAV</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>BAT**</td>
<td></td>
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<tr>
<td>Polygraph Emphasis</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<td><strong>Customer Assistance Technology</strong></td>
<td>PSAV</td>
<td>North</td>
<td>None Needed</td>
<td>TABE</td>
<td>138</td>
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<tr>
<td>Database Technology</td>
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</tr>
<tr>
<td>Microsoft MCDBA</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<tr>
<td>Oracle Professional Database Administrator</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Oracle Professional Database Developer</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Oracle Systems Administrator</td>
<td>C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>Oracle Software Engineering</td>
<td>C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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</tr>
<tr>
<td><strong>Dental Assisting</strong></td>
<td>C</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>TABE</td>
<td>143</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>144</td>
</tr>
<tr>
<td><strong>Diagnostic Medical Sonography (Ultrasound)</strong></td>
<td>AAS AS</td>
<td>North</td>
<td>Associate Degree</td>
<td>CPT</td>
<td>146</td>
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<tr>
<td>Diagnostic Sonography Specialist</td>
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<td>ATC</td>
<td>Associate Degree</td>
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<tr>
<td>Vascular Sonography *</td>
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</table>

AAS-ASSOCIATE IN APPLIED SCIENCE DEGREE  AS-ASSOCIATE IN SCIENCE DEGREE  ATC-ADVANCED TECHNICAL CERTIFICATE
ATD-APPLIED TECHNICAL DIPLOMA  C-CERTIFICATE
CHSE-APPLIED TECHNICAL DIPLOMA  C-CERTIFICATE
WHC-DOWNTOWN HIGHER EDUCATION COMPLEX
**BAT-BASIC ABILITIES TEST-ADMINISTERED IN THE CRIMINAL JUSTICE TESTING CENTER, CENTRAL
*These programs require an additional application and students must meet program admission criteria. For further information, call 954-201-6780 or see program of study catalog page.
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Media/Multimedia Technology</td>
<td>AAS</td>
<td>South</td>
<td>HS Diploma/GED</td>
<td></td>
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</tr>
<tr>
<td>Emergency Medical Services *</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>148</td>
</tr>
<tr>
<td>Environmental Science Technology</td>
<td>AS</td>
<td>Central</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
<td>154</td>
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<td>Health Information Management *</td>
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<td>Hospitality and Tourism Management</td>
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<td>Miramar</td>
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<td>Internet Services Technology</td>
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<td>Legal Assisting –See Paralegal Studies</td>
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<td>Marketing Management/Technology</td>
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<td>Massage Therapy *</td>
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AAS-ASSOCIATE IN APPLIED SCIENCE DEGREE   AS-ASSOCIATE IN SCIENCE DEGREE   ATC-ADVANCED TECHNICAL CERTIFICATE
ATD-APPLIED TECHNICAL DIPLOMA   C-CERTIFICATE
CHSE-CENTER FOR HEALTH SCIENCES EDUCATION   WHC-DOWNTOWN HIGHER EDUCATION COMPLEX
**BAT-BASIC ABILITIES TEST-ADMINISTERED IN THE CRIMINAL JUSTICE TESTING CENTER, CENTRAL
*THESE PROGRAMS REQUIRE AN ADDITIONAL APPLICATION AND STUDENTS MUST MEET PROGRAM ADMISSION CRITERIA. FOR FURTHER INFORMATION, CALL 954-201-6780 OR SEE PROGRAM OF STUDY CATALOG PAGE.
<table>
<thead>
<tr>
<th>Programs of Study</th>
<th>Degree/Certificate</th>
<th>Location</th>
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<th>Test</th>
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<td>Medical Office</td>
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<td>North South</td>
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<td>Physical Therapist Assistant</td>
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<td>Radiation Therapy Technology</td>
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<td>Radiation Therapy Specialist</td>
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<td>CPT</td>
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<tr>
<td>Radiography *</td>
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<td>Recreation Technology</td>
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<td>CHSE North</td>
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<tr>
<td>Restaurant Management</td>
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<td>North</td>
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<td>CPT</td>
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<td>Ophthalmic Technology *</td>
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<td>CHSE North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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<td>Opticianry *</td>
<td>AAS AS</td>
<td>CHSE North</td>
<td>HS Diploma/GED</td>
<td>CPT</td>
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</tbody>
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AAS-ASSOCIATE IN APPLIED SCIENCE DEGREE  AS-ASSOCIATE IN SCIENCE DEGREE  ATC-ADVANCED TECHNICAL CERTIFICATE
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**BAT-BASIC ABILITIES TEST-ADMINISTERED IN THE CRIMINAL JUSTICE TESTING CENTER, CENTRAL
*These programs require an additional application and students must meet program admission criteria. For further information, call 954-201-6780 or See program of study catalog page.

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### Accounting Applications Technical Certificate Major Code 62140

**Program Description**
The Accounting Applications Technology Certificate, offered at all BCC locations, is designed to qualify successful completers for jobs as accounting clerks or positions in corporate training departments.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>First Year Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2001 Principles of Accounting I 3</td>
<td>*ACG 2071 Managerial Accounting 3</td>
</tr>
<tr>
<td>CGS 1100 Introduction to Computer Applications 3</td>
<td><strong>Total Term Semester Hours 12</strong></td>
</tr>
<tr>
<td>GEB 1011 Introduction to Business 3</td>
<td>*Requires a pre-requisite. See course description in this catalog or online.</td>
</tr>
<tr>
<td>MTB 1103 Business Mathematics 3</td>
<td>It is strongly recommended that students see an academic advisor or counselor every term.</td>
</tr>
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<td><strong>Total Term Semester Hours 12</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
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<tbody>
<tr>
<td>*ACG 2011 Principles of Accounting II 3</td>
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</tr>
<tr>
<td>TAX 2000 Income Tax I 3</td>
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</tr>
<tr>
<td>BUL 2241 Business Law I 3</td>
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<tr>
<td>OST 2335 Communications in the Workforce 3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours 12</strong></td>
<td></td>
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</table>

**Accounting Technology Associate in Applied Science Major Code A001**

**Program Description**
The Associate in Applied 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. Graduates may obtain employment in accounting, banking, real estate, and general business management.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Second Year Term I</th>
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<tbody>
<tr>
<td>ACG 2001 Principles of Accounting I 3</td>
<td>*ACG 2100 Intermediate Accounting I 3</td>
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<td>CGS 1100 Introduction to Computer Applications 3</td>
<td>*TAX 2010 Income Tax II 3</td>
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<td>GEB 1011 Introduction to Business 3</td>
<td>*ENC 1101 Composition I 3</td>
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<td>ECO 2013 Principles of Economics I 3</td>
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<td><strong>Business Elective</strong> 3</td>
<td>BUL 2242 Business Law II 3</td>
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It is strongly recommended that students see an academic advisor or counselor every term.
**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.

<table>
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<tr>
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<tbody>
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<td><strong>Total Term</strong></td>
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<td>Intermediate Accounting</td>
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<td>Mathematics or Science</td>
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</table>

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

**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.

#Must be college-level and transferable.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Advanced Technical certificate in Interior Design, offered at the Higher Education Complex (Willis Holcombe Center), is designed as a specialized extension to the Associate in Science degree in Architectural Design and Construction Technology program. Graduates from this program will gain supplemental skills in areas of architecture, construction, and interior design. Students will gain an understanding of the interdisciplinary nature of these fields. Coursework focuses on understanding the technical and aesthetic principles essential to the planning of interior spaces, color, and design theory, selection and specification of interior materials and finishes, drafting and interdisciplinary communication standards, business practices and marketing. This program is aimed at architects and those ancillary fields in architecture, construction, and interior design.

IND 1022 Principles of Interior Design 3
IND 1607C Interior Design Construction Document 3
IND 2210C Interior Design Studio 3
IND 2230C Design Development 3
IND 2501 Interior Design Industry Practices 2
IND 2945 Internship in Design Industry 1

Total Semester Hours ......................... 15

Additional courses strongly recommended:
SPC 2300 Introduction to Interpersonal Communication
INP 1301 Human Relations in Business and Industry
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 life long learning and work experience.

For additional information about the programs listed above, contact the BCC Automotive Technology Program Manager at (954) 201-8886 or email autotech@broward.edu.

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 Introduction to Speech Communication or SPC 1600 Introduction to Public Speaking 3
CGS 1100 Introduction to Computer Applications 3

Total Academic Core Credits 24

Technical Course Requirements

#AER 1010C Introduction to Automotive Technology 3
#AER 1111C Engine Repair 3
#AER 1300C Electrical Systems 4
#AER 1310C Electronics 3
#AER 2230C Manual Drive Train and Axles 3
#AER 2251C Automatic transmissions 3
#AER 2112C Advanced Engine Performance 3
#AER 2410C Brake Systems 4
#AER 2520C Engine Performance 3
#AER 2171C Heating and Air Conditioning Theory 3
#AER 2450C Steering and Suspension 3

Total Technical Service Credits 35

Total Technical Service Degree Credits 68

*Requires a pre- or co-requisite or proper score in placement test. See course description in this 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 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.

It is strongly recommended that students see an academic advisor or counselor every term.
AUTOMOTIVE TECHNOLOGY, DEALER SPECIFIC
Associate in Applied Science Automotive Technology, Dealer Specific Major Code A037
Associate in Science Automotive Technology, Dealer Specific Major Code 2197

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.

CORPORATE PROGRAMS:
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 BCC 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 BCC Automotive Technology Program Manager at (954) 201-8886 or email autotech@broward.edu

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 Introduction to Speech Communication or SPC 1600 Introduction to Public Speaking 3
CGS 1100 Introduction to Computer Applications 3
Internship 12

Total Academic Core Credits 30

Technical Course Requirements

Technician Service Option Major Code A004

AER 1010C Introduction to Automotive Technology 4
AER 1111C Engine Repair 4
AER 1300C Electrical Systems 4
AER 1310C Electronics 4
AER 2230C Manual Drive Train and Axles 4
AER 2251C Automatic transmissions 4
AER 2112C Advanced Engine Performance 4
AER 2410C Brake Systems 4
AER 2520C Engine Performance 4
AER 2171C Heating and Air Conditioning Theory 4
AER 2450C Steering and Suspension 4

Total Technical Service Credits 44
Total Technical Service Degree Credits 74

*Requires a pre- or co-requisite or proper score in placement test. See course description in this catalog or on-line for additional information.

NOTE: 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.

It is strongly recommended that students see an academic advisor or counselor every term.
AVIATION INSTITUTE
Aviation Operations Associate in Science Major Code 2105
Airport Operations Management Associate in Science Major Code 21051
Professional Pilot Technology Associate in Science Major Code 2107
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
Avionics Vocational Certificate Major Code 5299

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 rating, as well as an Associate in Science degree. The flight instructor certificate and multi-engine ratings are optional. The ground and flight schools are fully approved by the FAA and the College is certified as an FAA Air Agency under Federal Aviation Regulations Part 141. BCC’s Aviation Institute has created a very unique partnership with Delta Connection Academy, a wholly owned subsidiary of Delta Air Lines. Through this relationship, the flight portion of the program is offered by Delta Connection Academy under their FAA 141 approved airline-designed curriculum. BCC 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. To date, more than 85% of those who complete the program have been hired. Once a BCC Flight Instructor earns 1000 hours total flight time including 100 multi-engine and has instructed in the BCC program for at least 800 hours dual, he or she will complete an advanced Bridge Course at Delta Connection Academy in Orlando, Florida. Upon completion of the Bridge Course, the BCC Flight Instructor will be guaranteed a job interview with a Delta Connection Carrier or American Eagle. To date, the Academy has placed 97% of their Flight Instructor graduates as an Airline First Officer. Student’s who wish to obtain a bachelor’s degree can transfer BCC’s credits to a four-year institution.

Professional Pilot Technology: Prepares students for FAA certification as private pilot, commercial pilot with instrument rating, and flight instructor. BCC Flight Instructor graduates are guaranteed a job interview for an airline pilot position with a Delta Connection Carrier or American Eagle. It is strongly recommended that students see the Admissions Coordinator at the Aviation Institute for additional information.

### Aviation Operations Associate in Science Major Code 2105
### Airport Operations Management Associate in Science Major Code 21051

**Program Description**
The Aviation Operations and Airport Operations Management Associate in Science Degrees, offered at the Judson A. Samuels South Campus, are designed for students who would like to work in the aviation industry, but not primarily as pilots or technicians. Selected aviation knowledge is provided together with general business management and specialized aviation management courses.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th></th>
<th>First Year Term III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ATT 1100 Aeronautical Science</td>
<td>3</td>
<td>AVM 2410 Airport Management</td>
<td>3</td>
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<tr>
<td>ASC 1100 Navigational Science I</td>
<td>3</td>
<td>Elective Humanities/Fine Arts</td>
<td>3</td>
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<tr>
<td>ASC 1010 History of Aviation</td>
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<tr>
<td>*ENC 1101 Composition I</td>
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<tr>
<td>CGS 1100 Introduction to Computer Applications</td>
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<th>Second Year Term II</th>
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<tr>
<td>*ASC 1210 Meteorology</td>
<td>3</td>
<td>AVM 2510 Airline Management</td>
<td>3</td>
<td>SPC 1024 Intro to Speech Communication</td>
<td>3</td>
<td>AVM 2410 Airport Management</td>
<td>3</td>
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<tr>
<td>AVM 2301 General Aviation Marketing and Management</td>
<td>3</td>
<td>ASC 2870 Aviation Safety</td>
<td>3</td>
<td>(2)*ECO 2013 Principles of Economics I</td>
<td>3</td>
<td>Elective Humanities/Fine Arts</td>
<td>3</td>
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<tr>
<td>*ENC 1102 Composition II or ENC 2210 Technical Report Writing</td>
<td>3</td>
<td>(2)*ECO 2023 Principles of Economics II</td>
<td>3</td>
<td>(2)*ACG 2001 Principles of Accounting I</td>
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<td>POS 2041 National Government</td>
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<td>(2)*ACG 2011 Principles of Accounting II</td>
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<tr>
<td>*MAC 1105 College Algebra</td>
<td>3</td>
<td>(3)*PHY 1001 Applied Physics</td>
<td>3</td>
<td>(3)*PHY 1001L Applied Physics Lab</td>
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<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
<td><strong>Total Term Semester Hours</strong></td>
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</table>

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.
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 (2):
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. It is strongly recommended that students see an academic advisor or counselor every term.

Airport Operations Management Associate in Science Major Code 21051

<table>
<thead>
<tr>
<th>Option #2 Airport Operations Management</th>
<th>Total Term Semester Hours</th>
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<tbody>
<tr>
<td><strong>First Year Term I</strong></td>
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<tr>
<td>ATT 1100 Aeronautical Science</td>
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<tr>
<td>ASC 1010 History of Aviation</td>
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<tr>
<td>*ENC 1101 Composition I</td>
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<tr>
<td>Elective Humanities/Fine Arts</td>
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<td>CGS 1100 Introduction to Computer Applications</td>
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<tr>
<td><strong>Total Term Semester Hours</strong></td>
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</table>

| **Second Year Term I**                 |                           |
| AVM 2301 General Aviation Marketing and Management | 3                      |
| BUL 2241 Business Law I                 | 3                         |
| OST 2335 Communications in the Workforce or | 3                      |
| *ENC 2210 Professional and Technical Writing | 3                      |
| AVM 2410 Airport Management             | 3                         |
| AVM 1440 Airport/Airline Security       | 3                         |
| **Total Term Semester Hours**           | **15**                    |

| **First Year Term II**                  |                           |
| AVM 1940 A/P Ops Internship I           | 3                         |
| GEB 2430 Business Ethics                | 1                         |
| **Total Term Semester Hours**           | **15**                    |

| **Second Year Term II**                 |                           |
| *AVM 2941 A/P Ops Internship II         | 3                         |
| ECO 2013 Principles of Economics I or   | 3                         |
| INP 1301 Human Relations in Business and Industry | 3                  |
| ASC 2320 Aviation Law and Regulations   | 3                         |
| Elective Math/Natural Science           | 3                         |
| AVM 2450 Airport Planning and Design    | 3                         |
| **Total Term Semester Hours**           | **15**                    |
| **Total Program Semester Hours**        | **64**                    |

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

Avionics Vocational Certificate (PSAV) Major Code 5299

Program Description

The purpose of this program is to prepare students for employment as radio mechanics and as avionics technicians. 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 Program Manager prior to enrollment.

There are three optional entry points into this program:
1. Completion of Airframe and Powerplant training or Certification.
2. Electronics training to include:
   - EET 1015C DC Circuits
   - CET 1114C Digital Techniques
   - MTB 1325 Engineering Tech. Mathematics I
   - EET 1025C AC circuits
   - EET 1141C Linear Techniques I
   - MBT 1326 Engineering Tech. Mathematics II
   - CET 1123C Microprocessors I
3. Previous Industry experience: To be evaluated by the Aviation Maintenance Program Manager.

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 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 rating, as well as an Associate in Science degree. The flight instructor certificate and multi-engine ratings are optional. The ground and flight schools are fully approved by the FAA and the College is certified as an FAA Air Agency under Federal Aviation Regulations Part 141. BCC's Aviation Institute works closely with industry to place our graduates. Many students start their aviation careers while attending Broward Community College. Recent graduates are working as flight instructors, corporate pilots and airline pilots. Most airlines hire pilots with college degrees. BCC's Professional Pilot degree is highly regarded in the industry. Students who wish to obtain a bachelor's degree can transfer BCC's credits to a four-year institution.

First Year Term I
- ATT 1100 Aeronautical Science 3
- ASC 1100 Navigational Science 3
- *ATF 1100 Primary Flight 3
- ASC 1010 History of Aviation 3
- *ENC 1101 Composition I 3

Total Term Semester Hours 15

First Year Term II
- *ASC 1210 Meteorology 3
- *ASC 2110 Navigational Science II 3
- *ATT 2120 Instrument Flight Theory 3
- *ATF 2200 Commercial Flight I 3
- *ATF 2600 Flight Simulator Training 1

Total Term Semester Hours 13

First Year Term III
- Elective Humanities/Fine Arts 3
- Elective Social/Behavior Sciences or
  +ECO 2013 Principles of Economics 3

Total Term Semester Hours 6

Second Year Term I
- *ASC 1610 Aircraft Engines, Structures, and Systems 3
- *ATF 2210 Commercial Flight II 3
- *ATT 2110 Commercial Flight Theory 3
- *MAC 1105 College Algebra or
  *(1)MAC 2233 Business Calculus 3
- CGS 1100 Introduction to Computers Applications 3

Total Term Semester Hours 15

Second Year Term II
- *ATF 2300 Commercial Flight III 3
- *(2)Elective Aviation 2
- *ASC 2870 Aviation Safety 3
- *(3)PHY 1001 Applied Physics 3

Total Term Semester Hours 15

Total Program Semester Hours 64

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

+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 BCC: ENC 1102, Composition II; STA 2023, Introduction to Statistics, ACG 2001, Accounting I; ACG 2011, Accounting II, and ECO, Economics II.

(1)MAT 1033, Intermediate Algebra, may be substituted if the student does not plan to transfer to an upper level college or university.

(2)Students may select ATF 2500, Flight Instructor Training; or ATF 2400, Multi-Engine, with ATF 2630, Multi-Engine Simulator or ATF 2660, Turboprop Simulator. For other options contact the Aviation Department Head.

(3)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.

Credit for Experiential Learning: Students who possess an FAA certificate or rating obtained before enrolling in the Professional Pilot program should contact the flight training manager to request credit for certain courses.

It is strongly recommended that students see an academic advisor or counselor every term.
FAA Airframe and Power Plant Mechanic Vocational Certificate Major Code 5272

Program Description
The Federal Aviation Administration Mechanic Certificate program is designed to prepare students for immediate employment in commercial or general aviation maintenance. The program has two options. One option is for students desiring to work on airframes, and the other option is for students desiring to work on power plants. The completion of either option leads to the Federal Aviation Administration Mechanic Certificate in either an airframe and/or a Power Plant FAA license. The program of study complies with FAR Part 147 and the program is FAA certified.

Students desiring an Associate in Applied Science Degree may convert these courses into college credit and continue to take general education courses. In addition, these courses will also meet the needs of those students who already have a two or four-year degree and are seeking new employability skills. These courses are offered in 400 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Program Manager prior to enrollment.

### Aircraft Airframe Mechanics Vocational Certificate Major Code 5272

**BLOCK 1**
- AMT 0070 Applied Mathematics 20
- AMT 0090 Basic Physics 20
- AMT 0100 Aircraft Drawings 26
- AMT 0050 Ground Operations and Servicing 30
- AMT 0040 Materials and Processes 80
- AMT 0030 Fluid Lines and Fittings 25
- AMT 0081 FARs, Forms, Privilege 36
- AMT 0020 Weight and Balance 40
- AMT 0060 Corrosion Control 38
- AMT 0001 Basic Electricity 85

**Total Clock Hours** 400

**BLOCK 2**
- AMT 0130 Sheet Metal and Non-Metallic 157
- AMT 0110 Wood Structures 11
- AMT 0115 Aircraft Covering 12
- AMT 0120 Aircraft Finishes 30

**Total Clock Hours** 400

**Total Program Clock Hours** 1,200

### Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273

**BLOCK 1**
- AMT 0070 Applied Mathematics 20
- AMT 0090 Basic Physics 20
- AMT 0100 Aircraft Drawings 26
- AMT 0050 Ground Operations and Servicing 30
- AMT 0040 Materials and Processes 80
- AMT 0030 Fluid Lines and Fittings 25
- AMT 0071 FARs, Forms, Privilege 36
- AMT 0020 Weight and Balance 40
- AMT 0060 Corrosion Control 38
- AMT 0001 Basic Electricity 85

**Total Clock Hours** 400

**BLOCK 2**
- AMT 0300 Reciprocating Engines 191
- AMT 0310 Turbine Engines 110
- AMT 0400 Engine Instrument Sys. 25
- AMT 0420 Engine Electrical and APUs 59
- AMT 0320 Engine Inspection 15

**Total Clock Hours** 400

**BLOCK 3**
- AMT 0460 Induction Systems 25
- AMT 0450 Engine Fuel Systems 25
- AMT 0451 Fuel Metering Systems 60
- AMT 0440 Ignition Systems 85
- AMT 0435 Lubrication Systems 70
- AMT 0475 Engine Cooling and Exhaust Systems 30
- AMT 0410 Engine Fire Protection 15
- AMT 0490 Propellers and Unducted Fans 90

**Total Clock Hour** 400

**Total Program Clock Hours** 1,200
**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.

<table>
<thead>
<tr>
<th>First Year Term I (General)</th>
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<tbody>
<tr>
<td>*AMT 1001 Basic Electricity</td>
<td>2</td>
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<tr>
<td>*AMT 1010 Aircraft Drawings</td>
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<tr>
<td>*AMT 1020 Weight &amp; Balance</td>
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<tr>
<td>*AMT 1030 Fluid Lines &amp; Fittings</td>
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<tr>
<td>*AMT 1040 Material Processes</td>
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<td>*AMT 1050 Ground Operations and Servicing</td>
<td>1</td>
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<tr>
<td>*AMT 1060 Cleaning and Corrosion Control</td>
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<tr>
<td>*AMT 1070 Applied Mathematics</td>
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</tr>
<tr>
<td>*AMT 1081 FAR's, Forms and Privileges</td>
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<td>*AMT 1090 Basic Physics</td>
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<table>
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<tr>
<th>First Year Term II (Airframe I)</th>
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<tr>
<td>*AMT 1110 Aircraft Wood Structures</td>
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<tr>
<td>*AMT 1115 Aircraft Covering</td>
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<td>*AMT 1120 Aircraft Finishes</td>
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<td>*AMT 1130 Sheet Metal Structures</td>
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<td>*AMT 1140 Aircraft Welding</td>
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<td>*AMT 1155 Assembly and Rigging</td>
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<td>*AMT 1200 Landing Gear Systems</td>
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<tr>
<td>*AMT 1160 Airframe Inspection</td>
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<tr>
<td>*AMT 1210 Hydraulic and Pneumatic System</td>
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<tr>
<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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<td>*AMT 1285 Ice/Rain/Fire Protection</td>
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<thead>
<tr>
<th>Second Year Term I (Power Plant I)</th>
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<tbody>
<tr>
<td>*AMT 2300 Reciprocating Engines</td>
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<tr>
<td>*AMT 2310 Turbine Engines</td>
<td>2</td>
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<tr>
<td>*AMT 2320 Engine Inspection</td>
<td>1</td>
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<td>*AMT 2400 Engine Instrument Systems</td>
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<tr>
<th>Term II (Power Plant II)</th>
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<tbody>
<tr>
<td>*AMT 2410 Engine Fire Protection Systems</td>
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<td>*AMT 2435 Lubrication Systems</td>
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<td>*AMT 2440 Ignition Systems</td>
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<td>*AMT 2450 Engine Fuel Systems</td>
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<tr>
<td>*AMT 2451 Fuel Metering Systems</td>
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<tr>
<td>*AMT 2460 Induction Systems</td>
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<tr>
<td>*AMT 2475 Engine Cooling and Exhaust Systems</td>
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<tr>
<td>*AMT 2490 Propellers and Unducted Fans</td>
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<tr>
<td><strong>Total Airframe &amp; Power Plant Credits</strong></td>
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</table>

The following additional academic courses are required for students desiring the Associate in Applied Science degree in Aviation Maintenance Management:

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>*ENC 1101</td>
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<tr>
<td>CGS 1061C</td>
<td>Computer Concepts</td>
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<tr>
<td>ATT 1100</td>
<td>Aeronautical Science or</td>
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<tr>
<td>ASC 1010</td>
<td>History of Aviation</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
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<tr>
<td>SPC 1024</td>
<td>Introduction to Speech</td>
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<td>Elective</td>
<td>Humanities/Fine Arts</td>
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<td>Elective</td>
<td>Social/Behavioral Sciences</td>
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<td>*MTB 1310</td>
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<td>*MAT 1033</td>
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<td>HSC 1101C</td>
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<td></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

**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.
Biomedical Engineering Technology Associate Applied Science Degree Major Code A006

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.

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 1317C Technical Computer Applications 3  
*CET1123C Microprocessors I 4  
Total Term Semester Hours 7

Second Year Term I
SPC 1024 Intro to Speech Communication or 3  
SPC 1600 Public Speaking 3  
*EET 2142C Linear Techniques II 4  
*HSC 1531 Medical Terminology or 4  
*MEA 1233 Anatomy and Physiology 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 Technology Internship 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 in this catalog or online.
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 Community College for the first time during the 2005-06 academic year. Other students should refer to their applicable catalog.
It is strongly recommended that students see an academic advisor or counselor every term

Biomedical Engineering Technology Advanced Technical Certificate Major Code 4268

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:

*EST 2438C Adv. Biomedical Instrumentation 3  
CGS 2263 Local Area Networking 3  
CDA 1403C PC Support-Operating Systems 3  
*CDA 1302C PC Support-Hardware 3  
*CET 2131C Microprocessors II 4  
*EET 2326C Electronic Communications 4  
Total Semester Hours 20
**Program Description**
The Building Construction Technology Program, offered at the Downtown Higher Education Complex (Willis Holcombe Center), 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.

**First Year Term I**
- CGS 1100 Introduction to Computer Applications 3
- ENC 1101 Composition I 3
- MAC 1105 College Algebra 3
- ARC 1056C Digital Media Interpretation 2
- BCN 1272 Building Construction Plans Interpretation 2
- BCT 1767 OSHA Standards 1
  **Total Term Semester Hours** 14

**First Year Term II**
- *BCN 1252C Building Construction Drawing I 4
- FFP 1510 Codes and Standards 3
- BCT 2114 MEP Plans Interpretation 2
- BCT 1600 Construction Estimating I 2
  **Total Term Semester Hours** 15

**First Year Term III, Session II**
- Elective Social/Behavioral Science 3
- Elective Humanities/Fine Arts 3
  **Total Term Semester Hours** 6

**Second Year Term I**
- BCT 2760 Building Codes and Regulations 3
- *BCN 2256C Building Construction Drawing II 4
- BCN 2561 Mechanical and Electrical Systems 3
- BCN 2614C Construction Estimating II 3
- BCN 1706 Construction Documents 2
  **Total Term Semester Hours** 15

**Second Year Term II**
- BCT 2787C MEP Drawing 3
- SPC1600 Public Speaking or
  SPC 1024 Introduction to Speech Communications 3
- BCT 1743 Construction Law 2
- GRA 2403 Project Management 3
- BCT 2941L Building Construction Field Experience 1
- BCT 2705 Infrastructure Coordination 2
  **Total Term Semester Hours** 14
  **Total Program Semester Hours** 64

*Requires a pre- or co-requisite. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.
### BUSINESS ADMINISTRATION

**Business Administration Associate in Applied Science Major Code A032**

**Program Description**
The Associate in Applied Science degree in Business Administration, offered at all BCC locations, is designed for students seeking immediate employment in business and for those presently employed in a business career that desire advancement. This program develops students in a broad range of business functions and is designed for those students seeking careers or advancement in the areas of supervisory or middle management.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Second Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 2241 Business Law I</td>
<td>Elective Mathematical or Science 3</td>
</tr>
<tr>
<td>GEB 1011 Introduction to Business</td>
<td>*BUL 2242 Business Law II 3</td>
</tr>
<tr>
<td>MTB 1103 Business Mathematics</td>
<td>Elective Humanities/Fine Arts 3</td>
</tr>
<tr>
<td>MAR 1011 Principles of Marketing</td>
<td>SPC 1024 Intro to Speech Communications or 3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 12</td>
<td>SPC 1600 Introduction to Public Speaking 3</td>
</tr>
<tr>
<td></td>
<td>GEB 2949 Co-op Work Experience/internship or 3</td>
</tr>
<tr>
<td></td>
<td>*Elective Business 3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2001 Principles of Accounting I 3</td>
</tr>
<tr>
<td>CGS 1100 Introduction to Computer Applications</td>
</tr>
<tr>
<td>OST 2335 Communications in the Workforce 3</td>
</tr>
<tr>
<td>MNA 2345 Principles of Supervision 3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term III</th>
<th>Second Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ACG 2011 Principles of Accounting II 3</td>
<td>*ECO 2023 Principles of Economics II 3</td>
</tr>
<tr>
<td>*ENC 1101 Composition I</td>
<td>#Elective Business 3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 6</td>
<td><strong>Total Program Semester Hours</strong> 64</td>
</tr>
</tbody>
</table>

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online. #Business Electives are satisfied by the following courses: GEB 2112, MAR 2141, MKA 1021, MNA 1161, MAN 2604, TAX 2000, TAX 2010, REE 1040, or MNA 1134

### International Business Management Associate in Applied Science Major Code A007

**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.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>First Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013 Principles of Economics I 3</td>
<td>ACG 2001 Principles of Accounting I 3</td>
</tr>
<tr>
<td>GEB 1011 Introduction to Business</td>
<td>#MAN 2604 International Business Environment 3</td>
</tr>
<tr>
<td>MAR 2141 International Marketing</td>
<td>+Elective Business 3</td>
</tr>
<tr>
<td>MTB 1103 Business Mathematics</td>
<td>+Elective Business or</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 12</td>
<td>Co-op Work Experience 3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Term Semester Hours</strong> 12</td>
</tr>
</tbody>
</table>
Business Administration Associate in Science Degree Major Code 2119

**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.

### General Education
- **#ECO 2013** Principles of Economics I 3
- *ECO 2023** Principles of Economics II 3
- *ENC 1101 Composition I 3
- *ENC 1102 Composition II 3
- Humanities/Fine Arts Elective 3
- *MAC 1105 College Algebra 3
- #MAC 2233 Business Calculus 3
- SPC 1600 Introduction to Public Speaking 3

**Total Semester Hours 24**

### Program Pre-requisites
- ACG 2001 Principles of Accounting I 3
- *ACG 2011 Principles of Accounting II 3
- *ACG 2071 Managerial Accounting 3
- CGS 1100 Introduction to Computer Applications 3
- *QMB 2100 Quantitative Mth. of Business 3

**Pre-requisite Semester Hours 15**

### Professional Core:
- BUL 2241 Business Law I 3
- CGS 1510 Electronic Spreadsheet 3
- ECO 2220 Money and Banking 3
- FIN 1100 Personal Finance 3
- MAN 2021 Introduction to Management 3

**Total Semester Hours 25**

### Total Professional Core Semester Hours 25

### Total Program Semester Hours 64

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

#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.
Business Management Technical Certificate Major Code 62671

Program Description
The Business Management 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 A.S. or A.A.S. Degree in either Business Administration or Marketing Management.

Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 2241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>GEB 1103</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MTB 1103</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAR 1101</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Term II
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce or</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1134</td>
<td>Contact Center Operations</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Total Certificate Semester Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

*Requires a pre-requisite. See course description in this catalog or online.

Business Management Technical Certificate Customer Service Specialization Major Code 62672

Program Description
The Customer Service Technical Certificate, offered at A. Hugh Adams Central, North, 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.

Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MTB 1103</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce or</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1134</td>
<td>Contact Center Operation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
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</table>

Term II
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 1011</td>
<td>Introduction to Business or</td>
<td>3</td>
</tr>
<tr>
<td>GEB 2949</td>
<td>Co-op-Specialization Customer</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUL 2241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Total Certificate Semester Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Business Management Technical Certificate Sports Management Specialization 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; youth organizations; tourism industry (hotels, cruise ships, adventure tours, etc.). Upon successful completion of this program, the student can also proceed toward completion of A.S. degree in Recreation Technology.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>LEI 1000</td>
<td>Introduction to Recreation</td>
<td>3</td>
</tr>
<tr>
<td>HSC 2400</td>
<td>First Aid</td>
<td>3</td>
</tr>
<tr>
<td>PET 1303</td>
<td>Foundations of Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>HFT 2600</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>LEI 1700</td>
<td>Recreation for Special Groups</td>
<td>3</td>
</tr>
<tr>
<td>LEI 2433</td>
<td>Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>HLP 1081</td>
<td>Health Fitness</td>
<td>2</td>
</tr>
<tr>
<td>Activity Course Elective</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Certificate Semester Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>
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 A.S. or A.A.S. 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.

Business Specialist Technical Certificate Major Code 6288

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CGS1100</td>
<td>Introduction to Computer Application</td>
<td>3</td>
</tr>
<tr>
<td>MAN2064</td>
<td>International Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>MTB1103</td>
<td>Business Math</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Semester Hours 12

Business Specialist Technical Certificate Major Code 6288

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG2001</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>GEB1011</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MNA2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>OST2335</td>
<td>Communications in the Workplace</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Semester Hours 12
**Program Description**

The increasing availability of computers has created a high demand for technicians with a two-year college degree. Most of the tasks that professional engineers used to perform with the calculator can now be delegated to engineering technicians with the skills acquired from this two-year program. The program has been implemented to upgrade or prepare students for the various disciplines in civil engineering (structural, sanitary, highway, land development, etc.) for both the private sector and the government. Positions available in the industry may be as civil engineering technicians to perform computer-oriented tasks for the professional engineer (hydraulics, land development, highways, structural analysis, and drafting) or as field inspectors for all the structural and civil engineering applications.

This program, offered at the Downtown Higher Education Complex (Willis Holcombe Center), is oriented toward entry-level students, but many of the courses offered reflect the requirements of the industry for the kind of help that civil engineers need at their level.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Second Year Term I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>*BCN 2256C Building Construction Drawing II</td>
</tr>
<tr>
<td>CGS 1000 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>ETC 1250C Materials and Processes</td>
<td>*SUR 2140C Route Surveying</td>
</tr>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Elective Social/Behavioral Science</td>
<td>*ENC 2210 Technical Report Writing</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>BCT 1600 Building Construction Estimating</td>
</tr>
<tr>
<td>14</td>
<td>BCT 2941L Field Experience</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th>Second Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 1252C Building Construction Drawing I</td>
<td>*BCN 2614C Planning and Estimating</td>
</tr>
<tr>
<td>MAC 1114 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>ETD 1320 Basic CAD</td>
<td>Elective Humanities/Fine Arts</td>
</tr>
<tr>
<td>PHY 1001 Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1001L Applied Physics Lab</td>
<td>ARC 2580 Structures</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>BCT 2705 Infrastructure Coordination</td>
</tr>
<tr>
<td>15</td>
<td>EVS 2005 Water/Waste Water</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term III, Session II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 1024 Intro to Speech Communications or</td>
<td></td>
</tr>
<tr>
<td>SPC 1600 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>*SUR 2001 Surveying</td>
<td>1</td>
</tr>
<tr>
<td>*SUR 2001L Surveying Lab</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Term II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*Requires a pre- or co-requisite. See course description in this catalog or online.</td>
<td></td>
</tr>
</tbody>
</table>

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.
**COMPUTER ENGINEERING TECHNOLOGY**  
Computer Engineering Technician 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.

**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
- **CDA 1403C** PC Support-OP System (Session 2) 3
- **CDA 1302C** PC Support Hardware (Session 4) 3  
**Total Term Semester Hours** 16

**First Year Term III**  
- **CET 1123C** Microprocessors I 4
- **CET 1317C** Technical Computer Applications 3
- **CGS 2263** Local Area Networking 3  
**Total Term Semester Hours** 10

**Second Year Term I**  
- **ENC 1101** Composition I 3
- **CET 2131C** Microprocessors II 4
- **CET 2489C** Networking Technology 2
- **SPC 1024** Intro to Speech Communications or
- **SPC 1600** 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 2494C** Advanced Networking 3
- **CTS 2312C** 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 in this catalog or online.

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 Community College for the first time during the 2005-06 academic year. Other students should refer to their applicable catalog.

It is strongly recommended that students see an academic advisor or counselor every term.
COMPUTER INFORMATION ADMINISTRATOR

Computer Systems Specialist Associate in Applied Science Major Code A010
Computer Systems Specialist Associate in Science Major Code 21491
Computer Information Technology Tech Support Specialist Associate in Science Option Major Code 21493
Information Technology Tech Support Specialist Associate in Applied Science Option Major Code A0101
Information Technology Support Specialist Technical Certificate Help Desk Specialist Option Major Code 62822
Information Technology Support Specialist Technical Certificate Microsoft Office Specialist (MOS) Option Major Code 62823
Information Technology Support Specialist Certificate Sun Certified Solaris (UNIX) System Administrator Option Major Code 62824
Information Technology Analysis Linux System Administrator Option Technical Certificate Major Code 6284

Computer Systems Specialist Associate in Applied Science Major Code A010

Program Description
The Computer Systems Specialist Associate in Applied Science Degree, offered at A. Hugh Adams Central Campus and North Campus, is designed to prepare for the growing business market of microcomputer applications, Internet, security, programming, networking, and troubleshooting.

First Year Term I**
*ENC 1101  Composition I  3
*MTB 1310  Applied Mathematics or Intermediate Algebra  3
CGS 1100  Introduction to Computer Applications  3
CGS 1557C  Internet Site Design  3
(1)Elective Business Elective  3

Total Term Semester Hours 15

First Year Term II
CDA 1403 C  PC Support-OP. Sys (session 2)  3
* CDA 1302C  PC Support-Hardware (session 4)  3
*COP 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
CGS 1518C  Microsoft Specialist: Advanced Excel  3
CGS 2263  Local Area Networking  3

Total Term Semester Hours 6

Second Year Term I
* CET 2489C  Networking Technology  2
CGS 1540C  Database Management or
CTS 1431C  Microsoft Specialist: Advanced Access  3
*COP 2171C  Visual Basic Programming  3

Total Term Semester Hours 13

Second Year Term II
SPC 1024  Intro to Speech Communication or
SPC 1600  Public Speaking  3
Elective  Elective Social/Behavioral Science  3

Total Term Semester Hours 14

Total Program Semester Hours 63

*Requires a pre- or co-requisite. See course description in this catalog or online.
(1)Business Elective: Any course with ACG, BUL, GEB, MAN, or MAR.

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 Community College for the first time during the 2004-05 academic year. Other students should refer to their applicable catalog.

It is strongly recommended that students see an academic advisor or counselor each term.

Computer Systems Specialist Associate in Science Major Code 21491

Students seeking an Associate in Science degree shall substitute MTB 1310 requirement in the Associate in Applied Science degree with MAC 1105, College Algebra or higher-level Mathematics.
COMPUTER INFORMATION TECHNOLOGY  
Associate in Science Tech Support Specialist Option Major Code 21493

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>15 credits</th>
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<tr>
<td>ENC 1101 Composition</td>
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<tr>
<td>MAC 1105 College Algebra*</td>
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<tr>
<td>SPC 1024 Introduction to Speech Communications or Public Speaking</td>
<td>3</td>
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<tr>
<td>Enc / FA Humanities / Fine Arts Elective</td>
<td>3</td>
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<td>Soc / Beh Social / Behavioral Science Elective</td>
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**Tech Support Specialist Core Courses:** 30 credits

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>CDA 1403C PC Support &amp; Service – Operating Systems (Session 2)</td>
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<tr>
<td>CDA 1302C PC Support &amp; Service – Hardware¹</td>
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<tr>
<td>CEN 1509C Network²</td>
<td>4</td>
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<tr>
<td>CEN 1300C Implementing Microsoft Windows Professional²</td>
<td>4</td>
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<tr>
<td>CTS 1860C I-Net³</td>
<td>4</td>
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<tr>
<td>CGS 2810C Help Desk³</td>
<td>4</td>
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<tr>
<td>CS Elective Computer Science Elective**</td>
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<tr>
<td>CS Elective Computer Science Elective**</td>
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**Tech Support Specialist Areas of Specialization** (Choose one): 18 credits

**Microsoft Office Specialist** (4)

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<td>CGS 1100 Introduction to Computer Applications</td>
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<td>CTS 1240C Microsoft Specialist: Advanced Word⁴</td>
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<td>CTS 1280C Microsoft Specialist: Advanced Excel⁴</td>
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<tr>
<td>CTS 1570C Microsoft Specialist: Advanced PowerPoint⁴</td>
<td>3</td>
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<tr>
<td>CTS 1760C Microsoft Specialist: Advanced Outlook⁴</td>
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<tr>
<td>CGS 1542C Microsoft Specialist: Advanced Access⁴</td>
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<tr>
<td>CTS 2750C Supporting Microsoft Office⁵</td>
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**Linux System Administrator** (5)

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<th>Course</th>
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<td>CTS 1111C Linux⁶</td>
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<td>CTS 1173C Linux Installation and Configuration⁷</td>
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<td>CTS 1321C Linux Administration⁸</td>
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<tr>
<td>CTS 1301C Linux Networking⁹</td>
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<tr>
<td>CTS 1311C Linux Security¹⁰</td>
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**Sun Solaris (UNIX System Administrator** (6)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>COP 1334C Introduction to C++¹¹</td>
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<tr>
<td>COP 1341 Unix¹²</td>
<td>3</td>
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<tr>
<td>CTS 1112C Sun: Solaris System Administration I¹³</td>
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<tr>
<td>CTS 1344C Sun: Advanced Shell Scripting¹⁴</td>
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<tr>
<td>CTS 1113C Sun: Solaris System Administration II¹⁴</td>
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**Total Credits**: 63

---

*Any course with a CDA, CEN, CET, CIS, or COP prefix

* Students pursuing an A.A.S. degree may substitute MTB1310 – Applied Mathematics or MAT1033 – Intermediate Algebra

¹ Prerequisite – CDA 1403C (with a grade of C or higher)
² Prerequisite – CDA 1403C (with a grade of C or higher); Co-Requisite – CDA 1302C
³ Prerequisites – CDA 1403C and CDA 1302C and CEN 1509C (each with a grade of C or higher)
⁴ Prerequisite – CGS 1100 (with a grade of C or higher)
⁵ Prerequisites – CTS 1240C and CTS 1280C and CTS 1570C and CGS 1542C (each with a grade of C or higher)
⁶ Prerequisite – CDA 1403C and CDA 1302C (each with a grade of C or higher)
⁷ Prerequisite – CTS1111C (with a grade of C or higher)
⁸ Prerequisite – CTS 1173C (with a grade of C or higher)
⁹ Prerequisite – CTS 1321 (with a grade of C or higher)
¹⁰ Prerequisite – CTS1301C (with a grade of C or higher)
¹¹ Prerequisite – MAT1033 or MTB1310
¹² Prerequisite – COP1334C
¹³ Prerequisite – COP1341 (with a grade of C or higher)
¹⁴ Prerequisite – CTS1112C (with a grade of C or higher)
### General Education Requirements:

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<td>ENC 1101</td>
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<td>Introduction to Speech Communications or SPC 1600</td>
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<tr>
<td>SPC 1600</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>Hum / FA</td>
<td>Humanities / Fine Arts Elective</td>
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<tr>
<td>Soc / Beh</td>
<td>Social / Behavioral Science Elective</td>
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**Total Credits:** 15

### Tech Support Specialist Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CDA 1403C</td>
<td>PC Support &amp; Service – Operating Systems (Session 2)</td>
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<tr>
<td>CDA 1302C</td>
<td>PC Support &amp; Service – Hardware¹ (Session 4)</td>
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<td>CEN 1509C</td>
<td>Network+⁴</td>
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<tr>
<td>CEN 1300C</td>
<td>Implementing Microsoft Windows Professional²</td>
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<tr>
<td>CTS 1860C</td>
<td>I-Net+³</td>
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<td>CGS 2810C</td>
<td>Help Desk³</td>
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<td>CS Elective</td>
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<td>CS Elective</td>
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</table>

**Total Credits:** 30

### Tech Support Specialist Areas of Specialization (Choose one):

1. **Microsoft Office Specialist**
   - CGS1100 Introduction to Computer Applications | 3 |
   - CTS 1240 Microsoft Specialist: Advanced Word⁶ | 3 |
   - CTS 1280C Microsoft Specialist: Advanced Excel⁶ | 3 |
   - CTS 1570C Microsoft Specialist: Advanced PowerPoint⁶ | 3 |
   - CTS 1760C Microsoft Specialist: Advanced Outlook⁶ | 1 |
   - CGS 1542C Microsoft Specialist: Advanced Access³ | 3 |
   - CTS 2750C Supporting Microsoft Office⁵ | 2 |

2. **Linux System Administrator**
   - CTS 1111C Linux⁵ | 4 |
   - CTS 1173C Linux Installation and Configuration⁷ | 3 |
   - CTS 1211C Linux Administration⁶ | 4 |
   - CTS 1301C Linux Networking⁹ | 4 |
   - CTS 1311C Linux Security¹⁰ | 3 |

### Term I

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<tr>
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<tr>
<td>CDA 1403C</td>
<td>PC Support &amp; Service – Operating Systems (Session 2)</td>
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<tr>
<td>CDA 1302C</td>
<td>PC Support &amp; Service – Hardware¹ (Session 4)</td>
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<td>CEN 1509C</td>
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**Total Term Semester Hours:** 10

### Term II

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<td>CEN 1300C</td>
<td>Implementing Microsoft Windows Professional² or CTS 1111C</td>
<td>Linux+²</td>
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<td>CGS 2810C</td>
<td>Help Desk³ (Session 4)</td>
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</table>

**Total Term Semester Hours:** 8

**Total Program Semester Hours:** 18

1. **Prerequisite – CDA 1403C (with a grade of C or higher)***
2. **Prerequisite – CDA 1403C (with a grade of C or higher); Co-Requisite – CDA 1302C***
3. **Prerequisites – CDA 1403C and CDA 1302C and CEN 1509C (each with a grade of C or higher)***
4. **Prerequisite – CGS 1100 (with a grade of C or higher)***
5. **Prerequisite – CTS 1240C and CTS 1280C and CTS 1570C and CGS 1542C (each with a grade of C or higher)***
6. **Prerequisite – CDA 1403C and CDA 1302C (each with a grade of C or higher)***
7. **Prerequisite – CTS 1111C (with a grade of C or higher)***
8. **Prerequisite – CTS 1173C (with a grade of C or higher)***
9. **Prerequisite – CTS 1321C (with a grade of C or higher)***
10. **Prerequisite – CTS 1301C (with a grade of C or higher)***
11. **Prerequisite – MAT 1033 or MTB1310***
12. **Prerequisite – COP 1334C***
13. **Prerequisite – COP 1341 (with a grade of C or higher)***
14. **Prerequisites – CTS 1112C (with a grade of C or higher)***

---

**INFORMATION TECHNOLOGY SUPPORT SPECIALIST Technical Certificate**

### Help Desk Specialist Option Major Code 62822

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>CDA 1403C</td>
<td>PC Support &amp; Service – Operating Systems (Session 2)</td>
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<tr>
<td>CDA 1302C</td>
<td>PC Support &amp; Service – Hardware¹ (Session 4)</td>
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<tr>
<td>CEN 1509C</td>
<td>Network+⁴</td>
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**Total Term Semester Hours:** 10

**Total Program Semester Hours:** 18

1. **Prerequisite – CDA 1403C (with a grade of C or higher)***
2. **Prerequisite – CDA 1403C (with a grade of C or higher); Co-Requisite – CDA 1302C***
3. **Prerequisites – CDA 1403C and CDA 1302C and CEN 1509C (each with a grade of C or higher)***
### INFORMATION TECHNOLOGY SUPPORT SPECIALIST TECHNICAL CERTIFICATE

#### Microsoft Office Specialist (MOS) Option Major Code 62823

<table>
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<th>Term I</th>
<th>Course</th>
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<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications (Session 2)</td>
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<td>CTS 1240C</td>
<td>Microsoft Specialist: Advanced Word</td>
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<tr>
<td>CTS 1280C</td>
<td>Microsoft Specialist: Advanced Excel</td>
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<th>Course</th>
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<tr>
<td>CTS 1570C</td>
<td>Microsoft Specialist: Advanced PowerPoint</td>
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<td>CTS 1760C</td>
<td>Microsoft Specialist: Advanced Outlook</td>
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<td>CTS 1431C</td>
<td>Microsoft Specialist: Advanced Access</td>
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<td>CTS 2750C</td>
<td>Supporting Microsoft Office</td>
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<td><strong>Total Program Semester Hours</strong></td>
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1. Prerequisite – CGS 1100 (with a grade of C or higher)
2. Prerequisite – CTS 1240C and CTS 1280C and CTS 1570C and CTS 2750C (each with a grade of C or higher)

### INFORMATION TECHNOLOGY SUPPORT SPECIALIST CERTIFICATE

#### Sun Certified Solaris (UNIX) System Administrator Option Major Code 62824

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<td>UNIX (Session 4)</td>
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1. Prerequisite – MAT 1033 or MTB 1013
2. Prerequisite – COP 1334C
3. Prerequisite – COP 1341 (with a grade of C or higher)
4. Prerequisite – COP 134xC (with a grade of C or higher)

### INFORMATION TECHNOLOGY

#### Linux System Administrator Option Technical Certificate Major Code 6284

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<th>Course</th>
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<td>CDA 1302C</td>
<td>PC Support &amp; Service – Hardware</td>
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<td>CTS 1111C</td>
<td>Linux+ (Session 4)</td>
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<td>CTS 1321C</td>
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<th>Hours</th>
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<tbody>
<tr>
<td>CTS 1301C</td>
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<td>CTS 1311C</td>
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*Any course with a CDA, CEN, CET, CIS, or COP prefix

1. Prerequisite – CDA 1403C (with a grade of C or higher)
2. Prerequisite – CDA 1403C (with a grade of C or higher); Co-Requisite – CDA 1302C
3. Prerequisite – CTS 1111C (with a grade of C or higher)
4. Prerequisite – CTS 1173C (with a grade of C or higher)
5. Prerequisite – CTS 1321C (with a grade of C or higher)
6. Prerequisite – CTS 1301C (with a grade of C or higher)
**Application Programmer Associate in Science Major Code 2195**

**Program Description**
The Associate in Science Degree in Application Programmer, offered at the North and A. Hugh Adams Central Campuses, is designed to prepare students for the dynamic world of applications programming and 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.

**First Year Term I**
- **ENC 1101** Composition I 3
- **MAC 1105** College Algebra 3
- **CGS 1100** Introduction to Computer Applications 3
- **Elective** Field Elective 3
- **COP 1334C** Introduction to C++ Programming 3

**Total Term Semester Hours** 15

**First Year Term II**
- **ENC 1102** Composition II or **ENC 2210** Professional and Technical Writing 3
- **COP 1337C** Intermediate C++ Programming 3
- **COP 2171C** Visual Basic Programming 3
- **CGS 1540C** Database Management 3
- **SPC 1024** Intro to Speech Communication or **SPC 1600** Intro to Public Speaking 3

**Total Term Semester Hours** 15

**First Year Term III**
- **Elective** Computer Science Elective 3
- **Elective** Field Elective 3

**Total Term Semester Hours** 6

**Second Year Term I**
- **CIS 2321** System Development and Design 3
- **CTS 1111C** LINUX+ 3
- **COP 2331** Object Oriented Design and Prog. 3
- **Elective** Computer Programming Elective 3
- **Elective** Social/Behavioral Science 3

**Total Term Semester Hours** 15

**Second Year Term II**
- **Elective** Computer Programming elective 3
- **Elective** Computer Science Elective 3
- **Elective** Field Elective 3
- **Elective** Humanities/Fine Arts Elective 3

**Total Term Semester Hours** 12

**Total Program Semester Hours** 63

*Requires a pre- or co-requisite. See course description in this catalog or online.

Technical courses should be taken in the sequence and term suggested unless approved by the Department Head.

#Students choosing CTS 1111C (4 credits) instead of COP 1341 may take a two-credit computer science elective in replacement of the three credit computer science elective to stay within the number of credits for the degree.

- (1) Computer Programming Electives: Any course with prefix COP.
- (2) Computer Science Elective: Any course with prefix CDA, CEN, CET, CGS, CIS, COP, or CTS.

This program of study applies to students who enroll in Broward Community College for the first time during the 2004-05 academic year. Other students should refer to their applicable catalog.

Students who meet these degree requirements will have satisfied the speech requirements for this major.

It is strongly recommended that students see an academic advisor or counselor every term.
## COMPUTER PROGRAMMING SPECIALIST CERTIFICATE

Sun Certified Java Programmer Major Code 62388

<table>
<thead>
<tr>
<th>Term I</th>
<th>COP 1334C</th>
<th>Introduction to C++ Programming(^1) (Session 2)</th>
<th>3</th>
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<tbody>
<tr>
<td>COP 1337C</td>
<td>Intermediate C++ Programming(^2) (Session 4)</td>
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<td>COP 1341</td>
<td>UNIX(^2) (Session 4)</td>
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<tr>
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<th>COP 2331C</th>
<th>Object-Oriented Design and Programming(^3)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2800C</td>
<td>Programming in Java(^3)</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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term III</th>
<th>COP 2805C</th>
<th>Sun: Advanced Java Programming(^4)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>18</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Prerequisite – MAT 1033 or MTB 1310
2 Prerequisite – COP 1334C
3 Prerequisite – COP 1337C
4 Prerequisites – COP 1341 and COP 2331C and COP 2800C

## Software Development Associate in Science Major Code 21133

**Program Description**
The Associate in Science Degree in Software Development, offered at the North Campus, is designed to prepare students for specialization in the development of software in a variety of technical environments. The degree prepares the student for immediate employment in such careers as Programmer, Programmer/Analyst, Systems Analyst, and Software Engineer.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>CGS 1100</th>
<th>Introduction to Computer Applications</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 1334C</td>
<td>Introduction to C++</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>12</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th>*ENC 2210</th>
<th>Professional and Tech Writing</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>*COP 1337C</td>
<td>Intermediate C++</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 1341</td>
<td>Unix Operating System</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 2171C</td>
<td>Visual Basic Programming</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CGS 1540C</td>
<td>Database Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term III</th>
<th>*CIS 2321</th>
<th>Systems Design and Development</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Introduction to Public Speaking</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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Term I</th>
<th>*COP 2331C</th>
<th>Object-Oriented Design and Programming Using C++</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 2821C</td>
<td>Visual Basic Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 2700C</td>
<td>Database Programming using SQL</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 2701C</td>
<td>Access VBA Programming</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Term II</th>
<th>*COP 2800C</th>
<th>Programming in JAVA</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>*COP 2227C</td>
<td>Solution Architectures</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*COP 2706C</td>
<td>Business Development Using Visual Basic</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(^1)Elective</td>
<td>Computer Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>63</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\)Requires a pre- or co-requisite. See course description in this catalog or online.

\(^1\)Computer Science Elective – Any course with prefix CDA, CEN, CET, CGS, CIS, COP, or CTS.

This program of study applies to students who enroll in Broward Community College for the first time during the 2004-05 academic year. Other students should refer to their applicable catalog.

It is strongly recommend that students see an academic advisor or counselor every term.
Program Description
The primary mission of the Broward Community College Institute of Public Safety, located on A. Hugh Adams Central Campus, is to prepare the student as a Criminal Justice Practitioner and for such jobs as Police Officer, Corrections (jail/prison) Officer, U.S. Customs or I.N.S. Inspector, Crime Scene Technician, Community/Police Service Aide or Polygrapher. The Institute of Public Safety is certified by the Florida Criminal Justice Standards and Training Commission as a training center which authorizes the basic Law Enforcement and Corrections Academy training as well as in-service, advanced and career development training to meet local needs.

Students seeking to transfer to a university for a baccalaureate degree for a “professional position” such as Probation Officer, Parole Officer, Special Agent for U.S. Federal Agencies (such as FBI or DEA), Juvenile Counselor, or Social Caseworker should take an appropriate Associate in Arts Degree Program. Program sheets are available in the Office of Student Affairs/Counseling Office.

Criminal Justice Technology Associate in Science Core Courses
An A.S. 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.

Core Courses (Required for all students):
*ENC 1101 Composition I  3
*ENC 1102 Composition II or  3
*ENC 2210 Technical Report Writing  3
Elective Mathematics/Natural Science  3
Elective Humanities/Fine Arts  3
POS 2041 National Government or  3
POS 2112 State and Local Government  3
PSY 2012 General Psychology  3
SYG 2000 General Sociology  3
SPC 1024 Intro to Speech Communications or  3
SPC 1600 Public Speaking  3
CGS 1000 Introduction to Computers or  3
CGS 1100 Introduction to Computer Applications  3
CCJ 1020 Introduction to Criminal Justice  3
CJL 1062 Constitutional Law  3
CCJ 2191 Human Behavior in Criminal Justice  3
CJT 2100 Criminal Investigation  3
#HSC 1101C Healthful Living (Major 21101 only) 1
Total Core Semester Hours  40

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:
CCJ 2000 Introduction to Corrections  3
CCJ 2162 Probation and Parole Procedures  3
*CCJ 2500 Juvenile Justice  3
*CCJ 2933 Corrections Practicum  3
CJD 1420 Correctional Law  3
CJD 1763 Interpersonal Skills in Criminal Justice  3
CJE 1300 Introduction to Criminal Justice Administration and Management  3
CJE 2170 Comparative World Police  3
CJE 2400 Police Community Relations  3
CJL 1100 Criminal Law  3
CJL 1130 Criminal Evidence  3
CJL 2060 Civil Rights Agencies  3
CJT 2110 Introduction to Criminalistics  3
DSC 1011 Terrorism & Domestic Security  3
Total Criminal Justice Elective Credits  12
+General Education Electives  12
Total Program Semester Hours  64

Students must fulfill a mathematics competency exit requirement through placement test or coursework.
### Crime Scene Emphasis Major Code 21102

<table>
<thead>
<tr>
<th>Core Courses (Required for all students-see above)</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specialization Options-Crime Scene Emphasis</strong></td>
<td></td>
</tr>
<tr>
<td>CJL 1100  Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJL 1130  Criminal Evidence and Court Procedures</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective (includes Lab)</td>
<td>7</td>
</tr>
<tr>
<td>CJT 2110  Introduction to Criminalistics (Offered Term 1 &amp; Term II, evening class)</td>
<td>3</td>
</tr>
<tr>
<td>CJT 2120  Forensics Photography (Offered in Term 1 and Term II, evening class)</td>
<td>3</td>
</tr>
<tr>
<td>*CJT 2130 Criminalistics Practicum (Offered in Term III, evening class)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Crime Scene Emphasis Semester Hours 22

*CJT 2115 Advanced Forensic Investigation (Offered in Term 1, evening class) or General Education Elective Credits from college level courses in Areas 2-5 3

Total Program Semester Credits 64

*Requires a pre- or co-requisite. See course description in this catalog or online.

Students must fulfill a mathematics competency exit requirement through placement test or coursework.

### Polygraph Emphasis Major Code 21104

<table>
<thead>
<tr>
<th>Core Courses (Required for all students see above)</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following courses in Polygraph (CJD/CJT) are the credits awarded to a student through Experiential Learning for completing the polygraph training at Deception Control, Inc., Fort Lauderdale. Applicants must submit verification of completion of approved polygraph training to the Director of the Criminal Justice Degree Programs and to Experiential Learning.</td>
<td></td>
</tr>
<tr>
<td>CJD 2250  Interviews and Interrogations</td>
<td>3</td>
</tr>
<tr>
<td>CJD 2250  Polygraph Theory and Operations</td>
<td>3</td>
</tr>
<tr>
<td>CJD 2251  Test Questions Construction and Semantics, Personnel Screening</td>
<td>3</td>
</tr>
<tr>
<td>CJD 2252  Test Questions Construction and Semantics, Criminal Cases</td>
<td>3</td>
</tr>
<tr>
<td>CJD 2253  Chart Analysis, Validity and Reliability</td>
<td>4</td>
</tr>
<tr>
<td>CJT 2254  Polygraph Operations Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Polygraph Emphasis Semester Hours 19

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 in this catalog or online.

Students must fulfill a mathematics competency exit requirement through placement test or coursework.
CRIMINAL JUSTICE CERTIFICATES
Broward County Correctional Officer Academy Major Code 5270
Broward County Correctional Probation Officer Academy Major Code 5282
Broward County Police Academy Major Code 5269
Law Enforcement Officer-Crossover from Correction Officer Major Code 5278
Law Enforcement Officer-Crossover from Correctional Probation Officer Major Code 5296
Police Service Aide Academy Major Code 5271

Program Description
The Florida Criminal Justice Standards and Training Commission recognize the Broward Community College Institute of Public Safety, located at A. Hugh Adams Central Campus, as a Law Enforcement and Corrections Training Center. As an authorized Training Center, the Institute of Public Safety offers six certificate of achievement programs: The Broward County Police Academy Basic Recruit Certificate Program, The Broward County Correctional Officer Academy Basic Recruit Certificate Program, The Broward County Correctional Probation Officer Academy Certificate Program, Law Enforcement Officer-crossover from Correction Officer Certificate Program, Law Enforcement Officer-crossover from Correctional Probation Officer, and the Police Service Aide Certificate Program. 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.

Broward County Correctional Officer Academy Major Code 5270
Upon successful completion of the Broward County 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 Broward County Corrections Academy. To find out what tests you must take before you can be hired or sponsored by a corrections or law enforcement agency, contact the Testing Center at the Institute of Public Safety at (954) 201-6931. A person who is accepted into the Broward County Correctional Officer Academy nine post-secondary adult vocational courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJD 0770</td>
<td>46</td>
</tr>
<tr>
<td>CJD 0771</td>
<td>22</td>
</tr>
<tr>
<td>CJD 0772</td>
<td>42</td>
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<tr>
<td>CJD 0773</td>
<td>62</td>
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<tr>
<td>CJD 0750</td>
<td>50</td>
</tr>
<tr>
<td>CJD 0741</td>
<td>26</td>
</tr>
<tr>
<td>CJD 0752</td>
<td>64</td>
</tr>
<tr>
<td>Total Clock Hours</td>
<td>532</td>
</tr>
</tbody>
</table>

Students attend the Broward County Corrections Academy Monday through Friday, 8:00 AM to 5:00 PM for approximately fourteen 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% of scheduled class sessions. Students will wear uniforms and must follow Corrections Academy Rules of Conduct.

Broward County Correctional Probation Officer Academy Major Code 5282
Upon successful completion of the Broward County 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 Broward County Correctional Probation Officer Academy Program will take the following eight post-secondary adult vocational courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJD 0790</td>
<td>60</td>
</tr>
<tr>
<td>CJD 0792</td>
<td>68</td>
</tr>
<tr>
<td>CJD 0793</td>
<td>70</td>
</tr>
<tr>
<td>CJD 0794</td>
<td>58</td>
</tr>
<tr>
<td>CJD 0795</td>
<td>80</td>
</tr>
<tr>
<td>CJK 0255</td>
<td>16</td>
</tr>
<tr>
<td>CJK 0031</td>
<td>40</td>
</tr>
<tr>
<td>CJK 0095</td>
<td>20</td>
</tr>
<tr>
<td>Total Clock Hours</td>
<td>412</td>
</tr>
</tbody>
</table>
Students attend the Broward County Correctional Probation Academy program Monday through Friday, 8:00 AM to 5:00 PM for approximately eleven 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.

### Broward County Police Academy Major Code 5269

Upon successful completion of the Broward County 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 Broward County 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.

<table>
<thead>
<tr>
<th>Clock Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK 0006</td>
<td>Introduction and Law</td>
</tr>
<tr>
<td>CJK 0010</td>
<td>Human Issues</td>
</tr>
<tr>
<td>CJK 0015</td>
<td>Communications</td>
</tr>
<tr>
<td>CJK 0020</td>
<td>Vehicle Operations</td>
</tr>
<tr>
<td>CJK 0031</td>
<td>First Aid for Criminal Justice Officers</td>
</tr>
<tr>
<td>CJK 0040</td>
<td>Firearms</td>
</tr>
<tr>
<td>CJK 0050</td>
<td>Defensive Tactics</td>
</tr>
<tr>
<td>CJK 0060</td>
<td>Patrol</td>
</tr>
<tr>
<td>CJK 0070</td>
<td>Investigations</td>
</tr>
<tr>
<td>CJK 0075</td>
<td>Investigating Offenses</td>
</tr>
<tr>
<td>CJK 0080</td>
<td>Traffic Stops</td>
</tr>
<tr>
<td>CJK 0085</td>
<td>Traffic Crash Investigation</td>
</tr>
<tr>
<td>CJK 0090</td>
<td>Tactical Applications</td>
</tr>
<tr>
<td>CJK 0095</td>
<td>Criminal Justice Special Topics</td>
</tr>
<tr>
<td><strong>Total Clock Hours</strong></td>
<td><strong>760</strong></td>
</tr>
</tbody>
</table>

Students attend the Broward County 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.

### CMS Law Enforcement Officer-crossover from Correctional Officer Major Code 5278

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.

<table>
<thead>
<tr>
<th>Clock Hours</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>CJK 0211</td>
<td>Cross-over Correctional to CMS Law Enforcement</td>
</tr>
<tr>
<td>CJK 0212</td>
<td>Cross-over Correctional to Law Enforcement CMS High-Liability</td>
</tr>
<tr>
<td>CJK 0213</td>
<td>Cross-over Correctional to Law Enforcement Tactical Application</td>
</tr>
<tr>
<td>CJK 0060</td>
<td>Patrol</td>
</tr>
<tr>
<td>CJK 0070</td>
<td>Investigations</td>
</tr>
<tr>
<td>CJK 0075</td>
<td>Investigating Offenses</td>
</tr>
<tr>
<td>CJK 0080</td>
<td>Traffic Stops</td>
</tr>
<tr>
<td>CJK 0085</td>
<td>Traffic Crash Investigations</td>
</tr>
<tr>
<td>CJK 0020</td>
<td>Vehicle Operations</td>
</tr>
<tr>
<td><strong>Total Clock Hours</strong></td>
<td><strong>434</strong></td>
</tr>
</tbody>
</table>

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.

### Law Enforcement Officer-crossover from Correctional Probation Officer Major Code 5296

Upon successful completion of the Law Enforcement Officer-crossover from Correctional Probation Officer program, a currently certified Correctional Probation Officer is eligible to take the state officer certification examination 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.
Clock Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJD 0796</td>
<td>Legal Crossover Correctional Probation to Law Enforcement</td>
<td>46</td>
</tr>
<tr>
<td>CJD 0797</td>
<td>Crossover Correctional Probation to Law Enforcement</td>
<td>64</td>
</tr>
<tr>
<td>CJK 0040</td>
<td>CMS Criminal Justice Firearms</td>
<td>80</td>
</tr>
<tr>
<td>CJK 0020</td>
<td>Vehicle Operations</td>
<td>48</td>
</tr>
<tr>
<td>CJD 0731</td>
<td>Law Enforcement Patrol</td>
<td>64</td>
</tr>
<tr>
<td>CJD 0732</td>
<td>Law Enforcement Traffic</td>
<td>46</td>
</tr>
<tr>
<td>CJD 0734</td>
<td>Law Enforcement Investigations</td>
<td>64</td>
</tr>
</tbody>
</table>

Total Clock Hours 412

A person who is accepted into the Cross-Over from Correctional Probation Officer to Law Enforcement Program will take one college credit course and seven post-secondary adult vocational courses. Students attend the program Monday through Friday either 8 AM to 12 PM for 20 weeks or 8 AM to 5 PM for 10 weeks, as the individual program is scheduled. In accordance with State law, students must score 80 percent or higher on all tests given in each course and attendance is mandated. Students will wear uniforms and must follow the Police Academy Rules of Conduct.

Police Service Aide Academy Major Code 5271

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK 0441C</td>
<td>Police Service Aide</td>
<td>110</td>
</tr>
<tr>
<td>CJK 0442</td>
<td>Traffic Accident/ Crash Investigator</td>
<td>80</td>
</tr>
<tr>
<td>CJK 0451</td>
<td>Parking Enforcement Specialist</td>
<td>16</td>
</tr>
</tbody>
</table>

Total Clock Hours 206

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.
CUSTOMER ASSISTANCE TECHNOLOGY
Vocational Technical Certificate Major Code 5298

Program Description
This vocational certificate program, located at North Campus, prepares students for employment in customer service positions. The content includes the development of interpersonal communications, conflict resolution, leadership, decision-making, problem-solving, supervisory and employability skills; diversity awareness; telephone techniques, and technical applications in the customer care environment.

<table>
<thead>
<tr>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 0010 Office Skills Training I 75</td>
</tr>
<tr>
<td>OTA 0312 Office Communications I 75</td>
</tr>
<tr>
<td>MKA 0043C Customer Assistance I 75</td>
</tr>
<tr>
<td>OTA 0001 Office Support Tech I 75</td>
</tr>
<tr>
<td>MKA 0047C Customer Service Rep 75</td>
</tr>
<tr>
<td>OTA 0002 Office Support Tech II 75</td>
</tr>
<tr>
<td><strong>Total Clock Hours</strong></td>
</tr>
<tr>
<td><strong>450</strong></td>
</tr>
</tbody>
</table>
DATABASE TECHNOLOGY

Oracle Professional Database Administrator Associate in Science Major Code 21492
Oracle Professional Database Developer Associate in Science Major Code 21134
Microsoft Professional Database Administrator (MCDBA) Option Associate in Science Major Code 21494
Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386
Oracle Software Engineering Technical Certificate Major Code 62385

Oracle Professional Database Administrator Associate in Science Major Code 21492

Program Description
The Oracle Professional 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.

Students must have college level math placement scores to enroll in this program.

First Year Term I
CEN 1509C Network* 4
*COP 1334C Intro. to C++ Programming 1 3
*ENC 1101 Composition I 3
*MAC 1105 College Algebra 3
Total Term Semester Hours 13

First Year Term II
*CIS 2321 Systems Development and Design 2 3
*COP 1337C Intermediate C++ Programming* 3
#Elective Humanities/Fine Arts 3
*COP 1341 UNIX 3
SPC 1024 Intro to Speech Communications or
SPC 1600 Intro to Public Speaking 3
Total Term Semester Hours 15

First Year Term III
*CIS 2342 Designing Data Serv/Data Models 3
*COP 2331C Object-oriented Design and Pro 3
Total Term Semester Hours 6

Second Year Term I
*COP 2740C Intro to Oracle SQL and PL/SQL 4
*COP 2741C Oracle DBA: Database Admin 5 4
*COP 2800C Programming in Java 3
*CTS 1112C Sun: Solaris Sys Administration* or
*CTS 1111C Linux* 4
Total Term Semester Hours 15

Second Year Term II
*COP 2742C Oracle DBA: Network Admin II 7 4
*COP 2744C Oracle DBA: Performance Tuning* 4
#Elective Computer Science 3
Elective Social/Behavioral Science 3
Total Term Semester Hours 14
Total Program Hours 63

#Any course with a CGS, CIS, CET, COP, CDA, or CEN prefix, except CGS 1000, CGS 1061C, or CGS 1570.

*Requires a pre- or co-requisite. See course description in this catalog or online.

1. College level math placement scores
2. Pre-requisite – COP 1334C
3. Pre-requisite – COP 1337C
4. CIS 2342 and COP 1334C (each with grade of C or higher)
5. Pre-requisite – COP 2740C (with grade of C or higher)
6. Pre-requisite – COP 1341 (with grade of C or higher)
7. Pre-requisite – COP 2741 and COP 1341 (each with grade of C or higher)
8. Pre-requisite – COP 2742C and CTS 1112C or CTS 1111C (each with grade of C or higher)

It is strongly recommended that students see an academic advisor or counselor every term.

Students who test into college preparatory courses must successfully complete all required college preparatory course to qualify for graduation.
Oracle Professional Database Developer Associate in Science Major Code 21134

**Program Description**
The Oracle Professional 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.

### First Year Term I
- *COP 1334C Introduction to C++ Programming*\(^1\) 3
- *ENC 1101 Composition I* 3
- GEB 1011 Introduction to Business 3
- *MAC 1105 College Algebra* 3

**Total Term Semester Hours** 12

### First Year Term II
- *COP 1337C Intermediate C++ Programming*\(^2\) 3
- *COP 1341 UNIX*\(^2\) 3
- #Elective Computer Science 4
- SPC 1024 Intro to Speech Communication or SPC 1600 Intro to Public Speaking 3

**Total Term Semester Hours** 16

### First Year Term III
- CIS 2342 Designing Data Services and Data Models\(^2\) 3
- *COP 2331C Object-oriented Design and Programming*\(^3\) 3

**Total Term Semester Hours** 6

### Second Year Term I
- *COP 2740C Intro to Oracle: SQL and PL/SQL*\(^4\) (Session 2) 4
- *COP 2745C Oracle Developer: Develop PL/SQL Program Units*\(^4\) (Session 4) 4
- #Elective Computer Science 4
- Elective Humanities/Fine Arts 3

**Total Term Semester Hours** 15

Microsoft Professional Database Administrator (MCDBA) Option Major Code 21494

### First Year Term I
- CDA 1403C PC Support & Service -- Operating Systems (Session 2) 3
- CDA 1302C PC Support & Service -- Hardware\(^1\) (Session 4) 3
- COP 1334C Introduction to C++ Programming\(^3\) 3
- ENC 1101 Composition 3
- MAC 1105 College Algebra 3

**Total Term Semester Hours** 15

### Term II
- CEN 1509C Network+ 4
- CTS 1431C Microsoft Specialist: Advanced Access or CGS 1540C Database Management 3
- CIS 2321 Systems Design & Development\(^3\) 3

**Total Term Semester Hours** 7

### Second Year, Term I
- CEN 1301C Implementing Microsoft Windows Server\(^6\) (Session 2) 4
- CEN 1315C Implementing Microsoft Windows Network Infrastructure\(^7\) (Session 4) 4
- CTS 1433C Querying Microsoft SQL Server with Transact-SQL\(^8\) 3
- Hum / FA Humanities / Fine Arts Elective 3

**Total Term Semester Hours** 14

*Any course with a COP, CDA, CET, CGS, CIS or CEN prefix, except CGS 1000, CGS 1060, CGS 1061C or CGS 1570.

*Requires a pre- or co-requisite or proper score on the placement test. See course description in this catalog or online.

1. College level math placement scores.
2. Pre-requisite – COP 1334C
3. Pre-requisite – COP 1337C
4. Pre-requisite – CIS 2342 and COP 1334C (each with grade of C or higher)
5. Pre-requisite – COP 2740C (with grade of C or higher)
6. Pre-requisite – COP 2745C (with grade of C or higher)

It is strongly recommended that students see an academic advisor or counselor every term.
Oracle Systems Administrator Technical Certificate Major Code 62386
(Database Administrator Option)

Program Description
This A. Hugh Adams Central Campus Program is designed for students seeking to successfully complete Oracle Certified Professional (OCP) certification in Database Administration. The student who enrolls in this program must have mathematics placement core above MAT 1033.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 1509C</td>
<td>Network+</td>
<td>4</td>
</tr>
<tr>
<td>*COP 1334C</td>
<td>Intro. to C++Programming</td>
<td>3</td>
</tr>
<tr>
<td>*CIS 2342</td>
<td>Designing Data Serv. and Data Models</td>
<td>3</td>
</tr>
<tr>
<td>*COP 1341</td>
<td>UNIX</td>
<td>3</td>
</tr>
<tr>
<td>*CTS 1112C</td>
<td>Sun: Solaris System Admin. I or II</td>
<td>4</td>
</tr>
<tr>
<td>*COP 2740C</td>
<td>Intro to Oracle SQL and PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>*COP 2741C</td>
<td>Oracle DBA: Database Admin. I</td>
<td>4</td>
</tr>
<tr>
<td>*COP 2742C</td>
<td>Oracle DBA: Database Admin. II</td>
<td>4</td>
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<tr>
<td>*COP 2744C</td>
<td>Oracle DBA: Performance Tuning</td>
<td>4</td>
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</table>

**Total Program Semester Hours** 32

*Requires a pre- or co-requisite. See course description in this catalog or online.

1. Pre-requisite – MAT 1033 with grade of "C" or higher or appropriate placement score.

Oracle Software Engineering Technical Certificate Major Code 62385
(Database Developer Option)

Program Description
This A. Hugh Adams Central Campus program is designed for students seeking to successfully complete the Oracle Certified Professional (OCP) certification in Database Development. The student who enrolls in this program must have mathematics placement core above MAT 1033.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*COP 1334C</td>
<td>Intro. To C++Programming</td>
<td>3</td>
</tr>
<tr>
<td>*CIS 2321</td>
<td>Systems Development and Design</td>
<td>3</td>
</tr>
<tr>
<td>*CIS 2342</td>
<td>Designing Data Serv. and Data Models</td>
<td>3</td>
</tr>
<tr>
<td>*COP 1337C</td>
<td>Intermediate C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>*COP 2331C</td>
<td>Object-Oriented Design and Prog.</td>
<td>3</td>
</tr>
<tr>
<td>*COP 1341</td>
<td>UNIX</td>
<td>3</td>
</tr>
<tr>
<td>*COP 2740C</td>
<td>Intro to Oracle SQL and PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>*COP 2745C</td>
<td>Oracle Developer: Develop PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>*COP 2746C</td>
<td>Oracle Developer: Build internet</td>
<td>4</td>
</tr>
</tbody>
</table>

It is strongly recommended that students see an academic advisor or counselor every term.

Broward Community College  Catalog 2006-2007  www.broward.edu  141
*COP 2800C  Programming in Java\textsuperscript{3}  \hspace{1cm} 3

\textbf{Total Program Semester Hours} \hspace{1cm} 33

*Requires a pre- or co-requisite or proper placement score on the placement test. See course description in this catalog or online.

1. Pre-requisite – MAT 1033 with grade of "C" or higher or appropriate placement score
2. Pre-requisite – COP 1334C
3. Pre-requisite - COP 1337C
4. Pre-requisite – COP 1334C and CIS 2342 (each with a grade of C or higher)
5. Pre-requisite – COP 2740C (with a grade of C or higher)
6. Pre-requisite – COP 2745C (with a grade of C or higher)

It is strongly recommended that students see an academic advisor or counselor 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 skills.

It is a 10-month full-time day program. Successful completion of this program enables students to receive a Certificate of Achievement and enables the student to take the Dental Assisting National Board and have expanded duties certification. 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.

Admission information can be obtained at 954-201-6782. Applicants should call the associate dean at (954) 201-6056 for specific 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. See page 32.
- Student sign off required on Program Overview written information
- Applicants must complete the Pre-Health Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474, and CAE 0476) prior to admission to the program.

**Requirements for the Dental Assisting Vocational Certificate:**
- Students must meet the TABE test score requirements at the time of graduation.
- Complete 1,134 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:

<table>
<thead>
<tr>
<th>Term I</th>
<th>Clock Hours</th>
<th>Term III</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DEA 0025</strong> Preclinical</td>
<td>60</td>
<td><strong>DES 0802</strong> Clinical Procedures II</td>
<td>30</td>
</tr>
<tr>
<td><strong>DEA 0025L</strong> Preclinical Laboratory</td>
<td>120</td>
<td><strong>DES 0802L</strong> Clinical Procedures II Lab</td>
<td>135</td>
</tr>
<tr>
<td><strong>DEA 0000</strong> Introduction to Dentistry</td>
<td>30</td>
<td><strong>Total Term Clock Hours</strong></td>
<td>165</td>
</tr>
<tr>
<td><strong>DES 0021</strong> Dental Anatomy and Physiology</td>
<td>45</td>
<td><strong>Pre Health Core hours</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>DES 0100</strong> Dental Materials</td>
<td>35</td>
<td><strong>Total Program Clock Hours</strong></td>
<td>1,114</td>
</tr>
<tr>
<td><strong>DES 0100L</strong> Dental Materials Laboratory</td>
<td>45</td>
<td><strong>Total Program Semester Hours (6 cr)</strong></td>
<td>96</td>
</tr>
<tr>
<td><strong>DES 0840</strong> Preventive Dentistry</td>
<td>40</td>
<td><strong>Total PSAV Certificate Hours</strong></td>
<td>1,209</td>
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<tr>
<td><strong>DES 0200</strong> Dental Radiography</td>
<td>40</td>
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<tr>
<td><strong>DES 0200L</strong> Dental Radiography Laboratory</td>
<td>60</td>
<td></td>
<td></td>
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<tr>
<td><strong>DES 0830</strong> Expanded Functions I</td>
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<td></td>
<td></td>
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<tr>
<td><strong>Total Term Clock Hours</strong></td>
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<table>
<thead>
<tr>
<th>Term II</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td><strong>DEA 0831</strong> Expanded Functions II</td>
<td>30</td>
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<tr>
<td><strong>DEA 0831L</strong> Expanded Functions II Lab</td>
<td>60</td>
</tr>
<tr>
<td><strong>DES 0801</strong> Clinical Procedures I</td>
<td>30</td>
</tr>
<tr>
<td><strong>DES 0801L</strong> Clinical Procedures I Lab</td>
<td>165</td>
</tr>
<tr>
<td><strong>DEA 0130</strong> Allied Dental Theory</td>
<td>30</td>
</tr>
<tr>
<td><strong>DES 0502</strong> Dental Office Management</td>
<td>39</td>
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<tr>
<td><strong>DES 0400</strong> Basic Anatomy and Physiology</td>
<td>30</td>
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<tr>
<td><strong>DEA 0150</strong> Dental Psychology</td>
<td>30</td>
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<tr>
<td><strong>Total Term Clock Hours</strong></td>
<td>414</td>
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<th>Semester Hours</th>
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<tr>
<td>SPC 1024 Introduction to Speech</td>
<td>3</td>
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<tr>
<td><strong>ENC 1101</strong> Composition I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See the course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

#Students are exempt from taking this course if they received a grade of “C” or higher in 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
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 accredited Dental Assisting Program. Graduates from the Dental Assisting Program are qualified to take the Dental Assisting National Board (DANB) Examination. 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 12 month Dental Hygiene Program. The student has up to three years to apply to this program. Students in the Dental Hygiene Program will be qualified to take the Dental Hygiene National Board and upon graduation the State Board examination. Upon passing both examinations, the graduate is licensed as a Registered Dental Hygienist (RDH) in the State of Florida.

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 954-201-6735. 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 Hygiene Program Associate in Science Degree:
- Applicants must fulfill the requirements for admission to the Health Science Programs. See page 32.
- 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 degree GPA, effective for Fall 2006 class.
- 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.
- The applicant who has completed all pre-requisite Dental Hygiene general education courses with a “C” or higher and has successfully completed an accredited Dental Assisting Program within the current academic year, but has not received national certification as a Dental Assistant (CDA) may submit an application to the program. A copy of the Dental Assisting National Board Certificate must be submitted prior to 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.
- Applicant must show verification of current CPR (BCLS) Certification.
- Complete the following pre-requisite courses with a grade of “C” or higher:
  - BSC 1085 Anatomy and Physiology I 3
  - BSC 1085L Anatomy and Physiology I Lab 1
  - CHM 1033 Chemistry for Health Sciences 3

Requirements for the Associate in Science Degree in Dental Hygiene:
- Completion of 88 semester hours with a degree grade point average of 2.0 or higher.
- Completion 20 clock hours of course work through the Continuing Education for Health Related Professions Department (954) 201-6768 within one year of entering the program. These 20 clock hours include: CAE 0382, AIDS; CAE 0476, TB/OSHA; CAE 0299, CPR; CAE 0474, Domestic Violence and CAE0528, Medical Errors.
- Completion of all courses in the degree program with a grade of “C” or higher.
- Completion of an ADA accredited Dental Assistant Program will provide credits in the following courses (an experiential learning fee will be charged):
  - DES 1021 Dental Anatomy and Physiology 3
  - DES 1100 Dental Materials 2
  - DES 1100L Dental Materials Lab 1
  - DES 1200 Dental Radiography 2
  - DES 1200L Dental Radiography Lab 1
  - DES 1840 Preventive Dentistry 2
  - DES 1830 Expanded Functions I 3
  - DES 1831 Expanded Function II 1
  - ***ENC 1101 Composition 3
  - ***SPC 1024 Introduction to Speech Communications 3

Complete the following general education courses:
- 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 2013 Microbiology 3
- *MCB 2013L Microbiology Lab 1
- Elective Humanities (with writing requirement) 3
- **#CHM 1033 Chemistry for Health Sciences 3
- **#BSC 1085 Anatomy and Physiology I 3
- **#BSC 1085L Anatomy and Physiology I Lab 1

Total Semester Hours 21
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1061C</td>
<td>Computer Concepts</td>
<td>1</td>
</tr>
<tr>
<td>HUN 1202</td>
<td>Essentials of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Semester Hours</strong></td>
<td><strong>28</strong></td>
</tr>
</tbody>
</table>

**Complete the following Dental Hygiene Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DEH 1003</strong></td>
<td>Preclinical Dental Hygiene I</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 1003L</strong></td>
<td>Preclinical Dental Hygiene I Lab</td>
<td>3</td>
</tr>
<tr>
<td><strong>DEH 1800</strong></td>
<td>Dental Hygiene I</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 1800L</strong></td>
<td>Dental Hygiene I Clinic</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 1802</strong></td>
<td>Dental Hygiene II</td>
<td>4</td>
</tr>
<tr>
<td><strong>DEH 1802L</strong></td>
<td>Dental Hygiene II Clinic</td>
<td>3</td>
</tr>
<tr>
<td><strong>DES 1051</strong></td>
<td>Pain Control and Dental Anesthesia</td>
<td>1</td>
</tr>
<tr>
<td><strong>DEH 1130</strong></td>
<td>Oral Histology and Embryology</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 1602</strong></td>
<td>Periodontology</td>
<td>3</td>
</tr>
<tr>
<td><strong>DES 2050</strong></td>
<td>Dental Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 2400</strong></td>
<td>General and Oral Pathology</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 2701</strong></td>
<td>Community Dental Health</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 2701L</strong></td>
<td>Community Dental Health Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>DEH 2804L</strong></td>
<td>Dental Hygiene III Clinic</td>
<td>4</td>
</tr>
<tr>
<td><strong>DEH 2806</strong></td>
<td>Dental Hygiene IV</td>
<td>2</td>
</tr>
<tr>
<td><strong>DEH 2806L</strong></td>
<td>Dental Hygiene IV Clinic</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>39</strong></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See the course description in this catalog or online.

**Requires all pre-requisite and general education courses be completed prior to taking this course.

***Students who have not completed ENC 1101 or SPC 1024 in their Dental Assisting Certificate Program shall be required to enroll in these courses prior to entering the Dental Hygiene Program.

#Pre-requisite course for entry to the program.

It is strongly recommended that students see an academic advisor or counselor every term.
DIAGNOSTIC MEDICAL SONOGRAPHY TECHNOLOGY (ULTRASOUND)
Associate in Applied Science Major Code A012
Associate in Science Major Code 2176
Technical Certificate Major Code 6230

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.

Clinical education is performed in local clinics and hospitals and is offered concurrently with the didactic courses. On completion of the 24-month program, students will be eligible to write the exams of the American Registry of Diagnostic Medical Sonographers.

Applicants should call 954-201-2058 or 6111 or 2890 for all admissions related questions. Applicants should call the program manager at (954) 201-2089 for specific program information. All didactic courses are taught in Bldg 41, Broward Community College, North Campus, 1000 Coconut Creek Boulevard, Coconut Creek Florida.

Criteria for Admission to Diagnostic Medical Sonography Technology Associate in Applied Science Degree and Associate in Science Degree:
- Applicants must complete requirements for admission to Health Science Programs
- Applicant must be a graduate of an accredited two-year Radiography Program which leads to registration and/or licensure. Applicants who have a minimum of a two-year patient care related Health Science Degree and are certified and/or licensed in the degree of specialization are also welcome to apply. Preference is given to Registered Radiographers.
- A minimum 3.0 Degree GPA is required. Applicants with less than a 3.0 but who have a 2.8 or above may petition the department for an exception.

Requirements for the Associate in Applied Science in Diagnostic Medical Sonography:
- 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

Diagnostic Medical Sonography Associate in Applied Science Major Code A012

First Year-Summer Session Term III
SON 1170 Sonography of the Circulatory System 2
SON 1100 Principles and Protocols of Sonographic Imaging 3
Total Term Semester Hours 5

Term I, Fall Term, First Year
*SON 1211 Medical Sonographic Physics I 3
*SON 1111 Abdominal Sonography I 3
*SON 1121 OB/GYN Sonography I 3
*SON 1214 Practical Aspects of Sonography I 3
*SON 1804 Clinical Education 3
Total Term Semester Hours 15

Term II, Spring Term, First Year
*SON 1212 Medical Sonographic Physics II 3
*SON 1112 Abdominal Sonography II 3
*SON 1122 OB/GYN Sonography II 3
*SON 1215 Practical Aspects of Sonography II 3
*SON 1814 Clinical Education 3
Total Term Semester Hours 15

Term III, Summer Term, Second Year
*SON 1141 Small Parts Sonography 3
*SON 1824 Clinical Education 4
Total Term Semester Hours 7

Completion of the above listed courses qualifies the student to write the ARDMS Examinations in OB/GYN, Abdomen, and Physics and Instrumentation and receive a certificate of completion. See section on Diagnostic Medical Sonography Certificate.

Term I, Fall Term, Second Year
ENC 1101 Composition I 3
CGS 1061C Computer Concepts 1
*SON 2400 Echocardiography I 3
*SON 2834 Clinical Education 3
SPC 1600 Public Speaking or SPC 1024 Intro to Speech Communications 3
Elective Social/Behavioral Science 3
Total Term Semester Hours 16

Term II, Spring Term, Second Year
Elective Humanities 3
*SON 2161 Neonatal Neurosonology 2
*SON 2401 Echocardiology II 3
*MTB 1310 Applied Mathematics or MAT 1033 Intermediate Algebra 3
*SON 2844 Clinical Education 3
Total Term Semester Hours 14

Total Program Semester Hours 72

*Requires a pre- or co-requisite. Refer to the course descriptions found in this catalog or online.
It is strongly recommended that students see an academic advisor or counselor every term.

146  www.broward.edu  Catalog 2006-2007  Broward Community College
Diagnostic Medical Sonography Technology (Ultrasound) Associate in Science Major Code 2176

Students seeking an Associate in Science degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics or MAT 1033, Intermediate Algebra requirement in the Associate in Applied Science degree with MAC 1105 College Algebra or higher level mathematics course or any College Level Science Course.

General Sonography Specialist (Ultrasound) Technical Certificate Major Code 6230

**Program Description**
The General Sonography Specialist Technical Certificate Program prepares individuals for an exciting career as a Sonographer. Students perform clinical practice in local hospitals and clinics utilizing a variety of equipment to become proficient in producing diagnostic sonograms.

The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, Florida 33756 Phone (727) 210-2350, upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

Applicants should call the program manager at (954) 201-2089 for specific program information. Applicants should call 954-201-2058 or 2890 for all admissions related questions. All didactic courses are taught in Bldg 41, Broward Community College, North Campus, 1000 Coconut Creek Blvd., Coconut Creek Florida.

**Criteria for Admission to General Sonography Specialist-Technical Certificate:**
- Applicants must fulfill the general requirements for admission to Health Science Programs
- Applicant must be a graduate of an accredited two-year Radiography Program which leads to registration and/or licensure. Applicants who have a minimum of a two-year patient care related Health Science Degree and are certified and/or licensed in the degree of specialization are also welcome to apply. Preference is given to Registered Radiographers
- A minimum 3.0 degree GPA is required. Applicants with less than a 3.0 but who have a 2.8 or above may petition the department for an exception.

**Requirements for the General Sonography Specialist-Technical Certificate:**
- Completion of 42 semester hours with a grade point average of 2.0 or higher.
- Completion of all courses in the certificate with a grade of “C” or higher.
- Completion of the following courses (the program is sequential and full time):

  **Summer Term III**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SON 1100</td>
<td>Principles and Protocols</td>
<td>3</td>
</tr>
<tr>
<td>SON 1170</td>
<td>Sonography of the Circulatory System</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Credits</strong></td>
<td></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

  **First Year, Term I**
  *SON 1211 Medical Sonographic Physics I  3
  *SON 1111 Abdominal Sonography I         3
  *SON 1121 OB/GYN Sonography I            3
  *SON 1214 Prac. Aspects of Sonography I  3
  *SON 1804 Clinical Education             3
  | **Total Term Semester Credits**          |                     | **15**  |

  **First Year, Term II**
  *SON 1212 Medical Sonographic Physics II 3
  *SON 1112 Abdominal Sonography II        3
  *SON 1122 OB/GYN Sonography II           3
  *SON 1215 Prac. Aspects of Sonography II 3
  *SON 1814 Clinical Education             3
  | **Total Term Semester Credits**          |                     | **15**  |

  **First Year, Term III**
  *SON 1141 Small Parts Sonography         3
  *SON 1824 Clinical Education             4
  | **Total Term Semester Credits**          |                     | **7**   |
  | **Total Certificate Semester Hours**     |                     | **42**  |

Completion of the above listed courses qualifies the student to write the ARDMS Examinations in OB/GYN, Abdomen, and Physics and Instrumentation.

*Requires a pre- or co-requisite or proper score on placement test. Refer to the course descriptions found in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

Criteria for Admission to General Sonography Specialist-Technical Certificate:
- Applicants must fulfill the general requirements for admission to Health Science Programs
- Applicant must be a graduate of an accredited two-year Radiography Program which leads to registration and/or licensure. Applicants who have a minimum of a two-year patient care related Health Science Degree and are certified and/or licensed in the degree of specialization are also welcome to apply. Preference is given to Registered Radiographers.
- A minimum 3.0 degree GPA is required. Applicants with less than a 3.0 but who have a 2.8 or above may petition the department for an exception.

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- Completion of all courses in the certificate with a grade of “C” or higher.
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</tr>
<tr>
<td>SON 1170</td>
<td>Sonography of the Circulatory System</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Term Semester Credits</strong></td>
<td></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

  **First Year, Term I**
  *SON 1211 Medical Sonographic Physics I  3
  *SON 1111 Abdominal Sonography I         3
  *SON 1121 OB/GYN Sonography I            3
  *SON 1214 Prac. Aspects of Sonography I  3
  *SON 1804 Clinical Education             3
  | **Total Term Semester Credits**          |                     | **15**  |

  **First Year, Term II**
  *SON 1212 Medical Sonographic Physics II 3
  *SON 1112 Abdominal Sonography II        3
  *SON 1122 OB/GYN Sonography II           3
  *SON 1215 Prac. Aspects of Sonography II 3
  *SON 1814 Clinical Education             3
  | **Total Term Semester Credits**          |                     | **15**  |

  **First Year, Term III**
  *SON 1141 Small Parts Sonography         3
  *SON 1824 Clinical Education             4
  | **Total Term Semester Credits**          |                     | **7**   |
  | **Total Certificate Semester Hours**     |                     | **42**  |
**DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY**  
Digital Media/Multimedia Technology Associate in Applied Science Major Code A018  
Digital Media/Multimedia 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  
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.

**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>CSG 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>OST 1841</td>
<td>Instructional Design for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1721C</td>
<td>Web Programming</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1131C</td>
<td>App. Graphics for Multimedia</td>
<td>3</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>CGS 1557C</td>
<td>Internet Site Design</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2871C</td>
<td>Multimedia Authoring</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2850C</td>
<td>Digital Video/Audio</td>
<td>3</td>
</tr>
<tr>
<td>OST 2826C</td>
<td>Presentation Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**  
15

**Term III, Session I or Session II**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Humanities/Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>#Elective Multimedia</td>
<td>3</td>
<td></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>*GRA 2160C</td>
<td>Multimedia Animation</td>
<td>3</td>
</tr>
<tr>
<td>Elective Mathematics/Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**  
15

- Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

- Multimedia Elective-choose two of the following courses:
  - GRA 2161C Advanced Image Editing 3
  - OST 2826C Presentation Graphics 3

**Total Program Semester Hours**  
64

- It is strongly recommended that students see an academic advisor or counselor every term.

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRA 1721C</td>
<td>Web Programming</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1131C</td>
<td>App. Graphics for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1557C</td>
<td>Internet Site Design</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2877C</td>
<td>Web Animation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one from the following two courses:**  
- OST 1811C Desktop Publishing 3
- OST 2825C Document Design 3
- GRA 2162C Introduction to 3D Animation 3

**Total Program Semester Hours**  
15

**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 A.S. degree who require additional coursework to be employed in Internet positions. An Advanced Technical Certificate in Multimedia Web Development will be awarded after a minimum of 18 credit hours are completed from the following courses:

**Select 18 Credits of 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>GRA 2724C</td>
<td>Advanced Web Animation</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2134C</td>
<td>Advanced Multimedia Animation</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2872C</td>
<td>Streaming Media for a the Web</td>
<td>3</td>
</tr>
<tr>
<td>COP 2801C</td>
<td>JavaScripting</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>

*Requires a pre-requisite. See course description in this catalog or online.*
Digital Media/Multimedia Production Technical Certificate Major Code 6287

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRA 1131C</td>
<td>App. Graphics for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>OST 1841</td>
<td>Instructional Design for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2850C</td>
<td>Digital/Video/Audio Editing</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2871C</td>
<td>Multimedia Authoring I</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2160C</td>
<td>Multimedia Animation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

---

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>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>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

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</th>
<th>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 1301</td>
<td>Human Relations in Business and Industry</td>
<td>3</td>
</tr>
</tbody>
</table>
EARLY CHILDHOOD EDUCATION  
Associate in Science Major Code 2166

**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 BCC locations.

**General Education Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1061C</td>
<td>Computer Concepts</td>
<td>1</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>(Area 5)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Healthful Living</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Semester Hours**

36

*(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.

**Early Childhood Education Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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 in this catalog or online.
Electronic Commerce Associate in Applied Science Major Code A0171

Program Description
The Electronic Commerce (E-Commerce) Program is designed to introduce students to all aspects involved in the management of an E-Commerce business via the internet. Students will examine the marketing, merchandising, customer service, payment, internalization, shipping, inventory, and legal aspects of Electronic Commerce. Upon successful completion of CGS designated courses the student is eligible to sit for exams which can lead to certificates in CompTIA-Net+ and CIW E-Commerce Strategies and Practices. For more information, please contact Business Administration Department Chair at your nearest BCC Campus:
Central Campus (954) 201-6710
South Campus (954) 201-8933
North Campus (954) 2012360

First Year Term I
CGS 1100 Introduction to Computer Applications 3
MAR1011 Principles of Marketing 3
MNA 1821C Introduction to E-Commerce 3
*ENC 1101 Composition I 3
MAN 2021 Introduction to Management 3
Total Term Semester Hours 15

First Year Term II
*MNA 1822C Management of E-Commerce 3
CSG 1601C I-Net+ 4
MNA 1161 Introduction to Customer Service 3
ACG 2001 Principles of Accounting 3
SPC 1024 Introduction to Speech Communication or 3
SPC 1600 Introduction to Public Speaking 3
Total Term Semester Hours 16

Second Year Term I
* ECO 2013 Principles of Economics I 3
*MNA 2823C E-Commerce Case Studies 3
*CGS 2172 CIW: E-Commerce Strategies and Practices I 3
Business Elective (choose one) 3
*ACG 2011 Principles of Accounting II 3
ACG 2071 Managerial Accounting 3
BUL 2241 Business Law 3
*ECO 2023 Principles of Economics II 3
*ECO 2220 Money & Banking 3
MKA 1511 Advertising 3
MKA 2102 Retailing 3
MKA 1021 Salesmanship 3
MAR 2141 International Marketing 3
FIN 1100 Finance 3
Total Term Semester Hours 12

Second Year Term II
Elective Mathematics or Science 3
MAT 1033 Intermediate Algebra 3
MTB 1310 Applied Mathematics 3
MAC 1105 College Algebra or 3
Any three credit Science Course 3
Elective Humanities/Fine Arts Elective 3
OST 2335 Communications in the Workforce 3
Business Elective (Choose One) 3
*ACG 2011 Principles of Accounting II 3
ACG 2071 Managerial Accounting 3
BUL2241 Business Law 3
*ECO 2023 Principles of Economics II 3
*ECO 2220 Money & Banking 3
MKA 1511 Advertising 3
MKA 2102 Retailing 3
MKA 1021 Salesmanship 3
MAR 2141 International Marketing 3
FIN 1100 Finance 3
Total Term Semester Hours 12

Third Year Term I
*MNA 2824 E-Commerce Practicum 3
*CGS 2173C CIW: E-Commerce Strategies & Practices II 4
GEB 2430 Business Ethics 1
Business Elective (choose one) 1
*GRA 1491C Graphic Design Industry 1
HSC 1101C Introduction to Healthful Living 1
OST 1103 Basic Keyboarding 1
OST 2053 Successful Job Search 1
OST 1795 Telecommunications 1
Total Term Semester Hours 9
Total Program Semester Hours 64

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor each term.
### Program Description

The Electronic Commerce (E-Commerce) Certificate Program is designed for students who have successfully completed any of Broward Community College’s Business Degree programs including certificates. This certificate is for the student who wishes to broaden or enhance their business knowledge to include the management of an E-Commerce business via the internet and is designed to be completed in one year. Upon successful completion of CGS designated courses the student is eligible to sit for exams which can lead to certificates in CompTIA-NET + and CIW E-Commerce Strategies and Practices. For more information, please contact the Business Administration Associate Dean at your nearest BCC Campus.

Central Campus 954-201-6710  
South Campus 954-201-8933  
North Campus 954-201-2360.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1100</td>
<td>Intro to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAR1011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1821 C</td>
<td>Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*MNA 1822C</td>
<td>Management of E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1601C</td>
<td>I-Net +</td>
<td>4</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
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<td><strong>10</strong></td>
</tr>
</tbody>
</table>

#### Second Year Term III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*MNA 2823C</td>
<td>E-Commerce Case Studies</td>
<td>3</td>
</tr>
<tr>
<td>*CGS 2172</td>
<td>CIW: E-Commerce Strategies and Practices I</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective (choose one.)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

- BUL 2241  Business Law
- MAN 2021  Introduction to Management
- MAR 2141  International Marketing
- MKA 1511  Advertising
- MKA 2102  Retailing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKA 1021</td>
<td>Salesmanship</td>
<td></td>
</tr>
<tr>
<td>FIN 1100</td>
<td>Personal Finance</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### Second Year Term IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*MNA 2824C</td>
<td>E-Commerce Practicum</td>
<td>3</td>
</tr>
<tr>
<td>*CGS 2173C</td>
<td>CIW: E-Commerce Strategies and Practices II</td>
<td>4</td>
</tr>
<tr>
<td>GEB 2430</td>
<td>Business Ethics</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor each term.
ELECTRONICS ENGINEERING TECHNOLOGY
Associate in Applied Science Major Code A013

Program Description
This program, offered at the North Campus, prepares students to work as engineering assistants, field service technicians, and as research assistants. This program transfers directly to Nova Southeastern University. This degree may transfer to those upper level institutions offering BET and BSET degrees. Students should consult the colleges to which they wish to transfer. This program was awarded the Secretary of Education's Award for the most outstanding technical program in the ten state region of the southeastern United States.

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
*CET 1317C Technical Computer Applications 3
*CET 1123C Microprocessors I 4
*ENC 1101 Composition I 3
Total Term Semester Hours 10

Second Year Term I
*CET 2131C Microprocessors II 4
*EET 2142C Linear Techniques II 4
*EET 2355C Data Communications 3
*SPC 1024 Introduction to Speech Communications 3
Total Term Semester Hours 14

Second Year Term II
*EET 2326C Electronic Communications 4
(1)Elective Field Elective 3
(1)Elective Field Elective 3
Elective Social/Behavioral Science 3
Elective Humanities/Fine Arts 3
Total Term Semester Hours 16
Total Program Semester Hours 68

(1) Field Electives – students are to select two of the following courses consistent with their career goals:

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

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 Community College for the first time during the 2005-06 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
Broward Community College has developed a three stage program in Emergency Medical Services to meet the needs of the community. The Applied Technology Diploma for the EMT and the Technical Certificate for the Paramedic are included in the two-year Associate in Science Degree Program. Satisfactory completion of the EMT Technical Certificate 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 Examination. Those desiring an Associate in Science degree may elect to take additional general academic and specialized EMS courses.

This program is accredited by the Joint Review Committee on Education Programs for the EMT-Paramedic.

Applicants should call (954) 201-6920 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 A.S. 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 candidate’s ability to perform duty.
- Freedom from any addiction to alcohol or any controlled substance

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.

Emergency Medical Technician Applied Technology Diploma Major Code B003

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

All other interested individuals will be admitted based upon date of application and space availability.

Requirements for EMT-Applied Technology Program:
- Completion of 11 semester hours with a grade of “C” or higher in all EMS courses listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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>
</tbody>
</table>

Total Semester Hours 11

*Requires a pre- or co-requisite. See course description in this catalog or online.
Paramedic Technical Certificate Major Code 6208

Applicants should call (954) 201-6920 for additional information. Program is offered at Health Sciences, Central and North.

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, and Public Safety personnel. All other interested individuals will be admitted based on date of application and space availability.
- Successfully complete an EMT Program as verified by a program Completion Certificate in order to enter the Paramedic Program.
- An EMT state certificate is required in order to enter the Paramedic II sequence of courses.

<table>
<thead>
<tr>
<th>Term I</th>
<th>Term II</th>
<th>Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 2010</td>
<td>Body Systems for the Paramedic</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2631</td>
<td>Paramedic Science I – Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2631L</td>
<td>Paramedic Science I – Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2650</td>
<td>Paramedic Science I, Field Clinical</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>*EMS 2632</td>
<td>Paramedic Science II-Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2632L</td>
<td>Paramedic Science II, Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2633</td>
<td>Paramedic Science II, Cardio Respiratory Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2641</td>
<td>Paramedic Science, Hospital Clinical I</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2651</td>
<td>Paramedic Science II, Field Clinical</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

- Requires a pre- or co-requisite. See course descriptions in this catalog or online.

Pre-requisite: Florida State EMT I certification

It is strongly recommended that you see an academic advisor or counselor every term.

Emergency Medical Services Associate in Science Major Code 2160

Applicants should call (954) 201-6920 for additional information. EMS courses offered at Health Sciences, Central and North; general education courses are offered at all BCC locations.

Requirements for the Associate in Science in Emergency Medical Services are the following:

- Completion of 73 semester hours of credit and a degree grade point average of 2.0 or higher.
- Completion of all courses in the degree program with a grade of “C” or higher.

Complete the following General Education courses:

| Elective | Humanities | 3 |
| Elective | Science/Mathematics (college-level) | 3 |
| #ENC 1101 | Composition I | 3 |
| SPC 1024 | Intro to Speech Communications or Public Speaking | 3 |
| PSY 2012 | General Psychology | 3 |
| CGS 1100 | Introduction to Computer Applications | 3 |

**Total Semester Hours** 18

Complete the following EMS courses:

| *EMS 1119 | EMT Lecture | 6 |
| *EMS 1119L | EMT Skills Lab | 1 |
| *EMS 1411 | EMT Hospital Clinical | 2 |
| *EMS 1421 | EMT Field Clinical | 2 |
| *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 2652 | Paramedic Science III, Field Clinical | 3 |

It is strongly recommended that you see an academic advisor or counselor every term.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*EMS 2651</td>
<td>Paramedic Science II Field Clinical</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2634</td>
<td>Paramedic Science III Trauma Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2634L</td>
<td>Paramedic Science III Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2635</td>
<td>Paramedic Science III Medical Emergencies Lecture</td>
<td>3</td>
</tr>
<tr>
<td>EMS 2642</td>
<td>Paramedic Science Hospital Clinical</td>
<td>2</td>
</tr>
<tr>
<td>EMS 2652</td>
<td>Paramedic Science III - Field Clinical</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2636</td>
<td>Paramedic Science IV Lecture</td>
<td>3</td>
</tr>
<tr>
<td>*EMS 2636L</td>
<td>Paramedic Science IV Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>*EMS 2643</td>
<td>Paramedic Science Hospital Clinical III</td>
<td>2</td>
</tr>
<tr>
<td>*EMS 2653</td>
<td>Paramedic Science IV Field Internship</td>
<td>4</td>
</tr>
<tr>
<td>*EMS 2311</td>
<td>Leadership Practicum</td>
<td>2</td>
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</tbody>
</table>

**Total Semester Hours** 73

*Requires a pre- or co-requisite. See course description in this catalog or online.

(1)Pre-requisite: Florida State EMT I certification

#Pre-requisite course for entry to the program.

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 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.

First Year Term I
*ENC 1101 Composition I 3
CHM 1025 Introduction to Chemistry 3
CHM 1025L Introduction to Chemistry Lab 1
BSC 1005 General Biology or
ORH 1000 Horticultural Biology 3
BSC 1005L General Biology Lab or
ORH 1000L Horticultural Biology Lab 1
SPC 1024 Introduction to Speech Communications 3
#EVR 2930 Environmental Science Seminar 1
Total Term Semester Hours 15

First Year Term II
*ENC 2210 Professional and Technical Writing 3
*EVR 1009 Environmental Science 3
ORH 1523 Native Upland Plants 2
ORH 1524 Native Wetland Plants 2
*EVS 2893C Environmental Sampling and Analysis 5
Total Term Semester Hours 15

First Year Term III, Session II or III
*Math (MTB 1310, MAT 1033, or MGF 1107) 3
Elective 3
Total Term Semester Hours 6

Second Year Term I
EVR 1862 Environmental Regulations 3
#EVR 2930 Environmental Science Seminar 1
SOS 2242C Wetlands Management I 3
*MCB 2010 Microbiology 3
*MCB 2013L Microbiology Lab 1
Elective Humanities/Fine Arts 3
Total Term Semester Hours 14

Second Year Term II
EVR 2949 Co-op Internship 3
GEO 1150C Introduction to Geographic Information Systems I 4
*PSC 1121 Physical Science or
*PHY1001 Applied Physics 3
PSC 1121L Physical Science Lab or
*PHY 1001L Applied Physics Lab 1
GEO 2370 Conservation of Natural Resources or
Elective Social Science 3
Total Term Semester Hours 14
Total Program Semester Hours 64

*Requires a pre- or co-requisite. See course description in this catalog or online.

#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 GEO 1150C.

It is strongly recommended that students see an academic advisor every term.

Geographic Information Systems Advanced Technical Certificate Major Code 4277

Pre-requisite: Associate in Science Degree in Environmental Science Technology or departmental approval of related degrees.

GEO 1154C Introduction to Geographic Information Systems II 3
GEO 1132 Remote Sensing and Applications 3
GEO 1156C Applications of Geographic Information Systems 3
Total Semester credits 9
FIRE SCIENCE TECHNOLOGY
Associate in Science Major Code 2118

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.

Fire Science General Education Requirements
*ENC 1101 English Composition I 3
*ENC 1102 English Composition II or
*ENC 2210 Technical Report Writing 3
SPC 1024 Introduction to Speech or
SPC 1600 Public Speaking 3
POS 2112 State and Local Government or
POS 2041 National Government 3
Elective CGS, CIS or COP computer class 3
Elective Humanities/Fine Arts 3
Elective Mathematics/Natural Science 3
Elective General Education Course (any college level course 9
Total Semester Hours 30

Fire Science Core Courses
FFP 1505 Fire Prevention Theory and Application 3
FFP 1120 Fire Protection through Building Construction 3
FFP 1810 Firefighting Tactics and Strategy 3
FFP 1540 Fire Protection & Detection Systems 3
FFP 2710 Fire Department Supervision 3
FFP 2740 Methods and Techniques Instruction 3
*FFP 2811 Application of Fire Ground Tactics 3
#FFP Electives 9
Total Semester Hours 30
Total Program Credit Hours 60

*Requires a pre or co-requisite. See course description in this catalog or online.
#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:

FFP 1000 Introduction to Fire Science 3
FFP 2939 Introduction to Command 3
FFP 2741 Fire Science Course Design 3
FFP 1780 Fire Administration I 3
FFP 1510 Codes and Standards 3
FFP 2111 Fire Chemistry 3
FFP 2781 Fire Administration II 3
FFP 2604 Origin and Cause 3
FFP 2630 Latent Investigation 3
FFP 2670 Legal Issues in Fire Investigation 3
FFP 2690 Fire Service Photography 3
FFP 2521 Construction and Plans Examination 3
FFP 2401 Hazardous Materials I 3
FFP 2402 Hazardous Materials II 3

+Recommended courses: STA 2023, PHI 2600, SYG 2010, PSY 2012, ECO 2013, CHM 1025, and EVR 1009.

BCC/FAU Joint A.S. Degree in Fire Science and Bachelor of Public Management Degree Program
Students completing this A.S. to B.P.M. combined four year program will receive the Associate in Science degree in Fire Science from Broward Community College AND the Bachelor of Public Management degree from Florida Atlantic University. After successfully completing the program at BCC, students then transfer to FAU. To find out which courses will be taken at FAU for the B.P.M. degree, call (954) 236-1003. Below are the courses to be taken at BCC, which will lead to the A.S. degree (Note: Students may choose to take the courses in a different order.

Term I at BCC
(1) FFP 1780 Fire Administration I 3
(1) FFP 1505 Fire Prevention Theory and Application 3
(2) MAT 1033 Intermediate Algebra 3
(1) ENC 1101 Composition I 3
(1) CGS1000C Introduction to Computers 3
Total Term Semester Hours 15

Term II at BCC
(1) FFP 1810 Firefighting Tactics and Strategy 3
(1) FFP 1540 Fire Protection and Detection Systems 3
(5) MGF 1106 Math for Liberal Arts Majors 3
(3) ENC 2210 Technical Report Writing 3
(3) SPC 1024 Introduction to Speech 3
Total Term Semester Hours 15

Term III at BCC
(1) FFP 2710 Fire Department Supervision 3
(1) FFP 1120 Fire Protection through Building Construction 3
(1) FFP 0000 Fire Science Electives (see advisor) 3
(1) XXX 1120 Foreign Language I 4
(1) ECO 2013 Principles of Economics I (with writing) 3
Total Term Semester Hours 16

Term IV at BCC
(1) FFP 2740 Techniques of Instruction in Fire Science 3
(1) FFP 2420 Application of Fire Ground Tactics 3
(1) STA 2023 Statistics 3
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXX 1121</td>
<td>Foreign Language</td>
<td>4</td>
</tr>
<tr>
<td>POS 2112</td>
<td>State and Local Government (with writing)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Hours**: 16

**Total Program Semester Hours**: 62

1. FFP prefixed courses are subject to change. Contact your BCC Fire Science Advisor to secure the most current list of FFP requirements. As the FFP courses are updated, the BPM degree requirements will adopt curriculum revisions without penalty.

2. Intermediate Algebra is recommended for most A.S. students. However, with a sufficient math background, you may be eligible to move directly into MGF 1106, Mathematics for Liberal Arts I. See a BCC advisor or counselor for more information.

3. Gordon Rule Writing course. To earn the Bachelors degree, you must complete sufficient coursework that counts as “Gordon Rule Writing” such as ENC prefixed courses or other BCC courses designated for writing. Completing this program will satisfy the Gordon Rule Writing requirement.

4. Any CGS, CIS, or COP prefixed course will satisfy the requirement for both the A.S. in Fire Science and BPM.

5. To earn the Bachelor degree, you must complete six hours of mathematics at the college level. MGF 1106 and STA 2023 each count toward that requirement.

6. If you completed two years of the same foreign language in high school, you need not complete this course. If so, then substitute any three credit hour 1000 or 2000 level Humanities course (see BCC advisor).

7. Take as writing course. This means you must designate at the time of registration that you are taking this course “for writing” enabling you to receive Gordon Rule Writing credit.
# GRAPHICS TECHNOLOGY

Graphix Design Technology Associate in Science Major Code 2192
Graphic Design Production Certificate Major Code 6289
Graphic Design Support Certificate Major Code 6290

## Program Description
The Graphics Technology Program, offered at the Downtown Higher Education Complex (Willis Holcombe Center), is designed to prepare students for the rapidly changing computer driven graphics design industry. The primary job titles are Junior Graphic Artist, Graphics Reporter and Web Designer.

### First Year Term I (Fall)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1201C</td>
<td>2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1300C</td>
<td>Drawing 1 or</td>
<td>3</td>
</tr>
<tr>
<td>PGY 1801C</td>
<td>Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2000</td>
<td>Art Appreciation or</td>
<td></td>
</tr>
<tr>
<td>ARH 2050</td>
<td>Art History I or</td>
<td></td>
</tr>
<tr>
<td>ARH 2051</td>
<td>Art History II</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics/Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>English Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Credits**: 15

### First Year Term II (Spring)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGY 1801C</td>
<td>Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1151C</td>
<td>Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1122C</td>
<td>Publication Design</td>
<td>3</td>
</tr>
<tr>
<td>*GRA 2190C</td>
<td>Introduction to Graphic Design</td>
<td>4</td>
</tr>
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</table>

**Total Term Semester Credits**: 13

### Term III (Summer)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PGY 1800C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Credits**: 3

### Second Year Term I (Fall)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*GRA 1201C</td>
<td>Digital Typography</td>
<td>3</td>
</tr>
<tr>
<td>*GRA 2171C</td>
<td>Advertising and Promotional Design</td>
<td>3</td>
</tr>
<tr>
<td>*GRA 2152C</td>
<td>Advanced Digital Imaging Design</td>
<td>3</td>
</tr>
<tr>
<td>*GRA 2841C</td>
<td>Web Publishing</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communication or</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
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</table>

**Total Term Semester Credits**: 15

### Second Year Term II (Spring)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>*GRA 2191C</td>
<td>Graphic Design II</td>
<td>4</td>
</tr>
<tr>
<td>*GRA 2185C</td>
<td>Art Direction and Final Production</td>
<td>3</td>
</tr>
<tr>
<td>*GRA 2181C</td>
<td>Graphic Design Portfolio</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Term Semester Credits**: 12

### Term III (Summer)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>*GRA 2940C</td>
<td>Graphic Design Internship</td>
<td>3</td>
</tr>
<tr>
<td>*PGY 2850C</td>
<td>Digital Audio/Video Editing or</td>
<td></td>
</tr>
<tr>
<td>*GRA 2162C</td>
<td>3d Animation</td>
<td></td>
</tr>
<tr>
<td>*CGS 2877C</td>
<td>Web Animation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Term Semester Credits**: 6

**Total Term Semester Credits**: 64

Completion of the Graphics Technology Program will satisfy SACS computer competency standards. It is strongly recommended that students see an academic advisor or counselor every term.

*Requires a pre- or co-requisite. See course description in this catalog or online.

#Requires a proper score on Placement Test.
## Graphic Design Production Certificate Major Code 6289

**Program Description**
The Graphic Design Production Certificate. 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.

Certificate requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1201C</td>
<td>2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1300C</td>
<td>Drawing 1 or</td>
<td></td>
</tr>
<tr>
<td>ART 2300C</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>PGY 1801C</td>
<td>Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1122C</td>
<td>Publication Design or</td>
<td></td>
</tr>
<tr>
<td>OST 1181C</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1151C</td>
<td>Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>*PGY 1800C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GRA 201C</td>
<td>Typography</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2171C</td>
<td>Advertising and Promotional Design or</td>
<td></td>
</tr>
<tr>
<td>*GRA 2152C</td>
<td>Advanced Digital Image Design</td>
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</tr>
<tr>
<td>GRA 2841C</td>
<td>Web Publishing</td>
<td>3</td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

### Total Certificate Credits

24

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## Graphic Design Support Certificate Major Code 6290

**Program Description**
The Graphic Design Support Certificate. The purpose of this program is to prepare students for employment as assistant graphic designers or to provide supplemental training for persons previously or currently employed in these occupations.

Certificate requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>ART 1201C</td>
<td>2-D Design</td>
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<tr>
<td>ART 1300C</td>
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<tr>
<td>ART 2330C</td>
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<tr>
<td>PGY 1801C</td>
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</tr>
<tr>
<td>GRA 1122C</td>
<td>Publication Design or</td>
<td></td>
</tr>
<tr>
<td>OST 1181C</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GRA 1151C</td>
<td>Digital Illustration</td>
<td>3</td>
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<tr>
<td>*PGY 1800C</td>
<td>Digital Photography</td>
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<tr>
<td>GRA 201C</td>
<td>Typography</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2171C</td>
<td>Advertising and Promotional Design or</td>
<td></td>
</tr>
<tr>
<td>*GRA 2152C</td>
<td>Advanced Digital Image Design</td>
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</tr>
<tr>
<td>GRA 2841C</td>
<td>Web Publishing</td>
<td>3</td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

### Total Credit Certificates

15
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). Responsibilities include coding of diagnoses and procedures; as well as processing, storage and retrieval of health information. Confidentiality, legal aspects, statistical reporting, performance improvement, and supervision of daily department activities comprise other functions. Professional practice experiences are provided in local health care facilities under the supervision of qualified professional personnel. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CHIIM).

Articulation Agreement
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 (954) 201-2084 for information.

First year applicants should call (954) 201-6056 for application information. For specific program information call the Program Manager at (954) 201-2084. Program is offered at Health Sciences, North Campus.

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. See page 32.
• A minimum 2.5 degree GPA.
• Complete the pre-requisite courses listed below with a grade of "C" or higher.
• Students who have not completed the pre-requisites, but seek early admission, must obtain departmental approval.
• Applicants must complete the Pre-Health Science Core certificate requirements (CAE 0299, CAE 0382, CAE 0474, and CAE 0476) prior to admission to the program.

Requirements for the Associate in Science in Health Information Management:
• Courses must be completed in the sequence as outlined in the program of study.
• Completion of 67 semester hours of credit and a minimum degree grade point average of 2.0 or higher.
• Completion of all courses in the degree program with a grade of "C" or higher.

Pre-requisite Courses:
HSC 1531 Medical Terminology 3
CGS 1100 Introduction to Computers 3
BSC 1085 Anatomy and Physiology I 3
*BSC 1085L Anatomy and Physiology I Lab 1
Total Semester Hours 10

First Year Term I
**BSC 1086 Anatomy and Physiology II 3
*BSC 1086L Anatomy and Physiology II Lab 1
*HIM 1000 Intro. to Health Info. Management 2
*HIM 1300 Healthcare Delivery Systems 3
*HIM 1436 Pathophysiology 3
MAT 0024 Elementary Algebra or higher 0
Total Semester Hours 12

First Year Term II
*ENC 1101 Composition I 3
SPC 1024 Introduction to Speech Communication 3
*HIM 1110 Health Data Concepts 3
*HIM 1250 Coding: Beginning 4
*HIM 1260 Health Insurance Billing 2
Total Semester Hours 15

First Year Term III
*HIM 1800 Professional Practice I 2
Elective Humanities/Fine Arts 3
Total Semester Hours 5

Second Year Term I
*HIM 2012 Law and Ethics 2
*HIM 2232 Coding: Intermediate 3
*HIM 2652 Health Information Systems 3
*HIM 2214 Health Statistics 2
*HIM 2110 Electronic Health Record 2
Total Semester Hours 12

Second Year Term II
*HIM 2234 Coding: Advanced 3
*HIM 2810 Professional Practice II 2
*HIM 2500 Performance Improvement 2
*HIM 2304 Supervision and Organizational Life 2
*# Elective Social/Behavioral Sciences 3
Total Semester Hours 12

Second Year Term III
HIM 2930 Transition Seminar 1
Total Semester Hours 1
Total Program Semester Hours 67

#Requires a pre- or co-requisite. See course description in this catalog or online.
#Recommend POS 2041, National Government or PSY 2012, General Psychology.
It is strongly recommended that you see an academic academic advisor every semester.
HEALTH SERVICES MANAGEMENT
Associate in Applied Science Major Code A014
Associate in Science Major Code 2129

Program Description
The Health Services Management Associate Degree Programs are designed for health care personnel who have completed a post secondary adult vocation or college certificate or degree from an accredited certificate or degree program in a health science area and are interested in administration/management or currently hold such a position. Students are awarded up to 20 credits based upon the length of the program and current work experience in the field.

Health care administrators plan, organize, and coordinate the delivery of health care at hospitals, nursing homes, public health agencies, outpatient clinics, medical and dental offices, and other health facilities. The curriculum was designed to provide the student with basic management skills allowing students to select courses most suitable to their career goals or work environment. Each student will complete one administrative practicum.

Students interested in a Bachelor Degree in Health Services Administration should ask about the Articulation Agreement with Florida International University (FIU). The Bachelor of Health Services Administration (BHSA) degree at FIU requires 60 lower division credit hours, which may be completed at BCC and a minimum of 60 upper division credit hours. Students may choose a nursing home administration specialization, which includes the 36 credit hours of core course work, 15 credit hours of nursing home administration, and 9 credit hours of electives. Please call (954) 940-5980 or (954) 760-5632 for further information.

Applicants should call (954) 201-6782 for admission information. Program information can be accessed at (954) 201-6904. General Education courses are offered at all BCC locations

Criteria for Admission to Health Services Management Associate in Applied Science and Associate in Science

- Applicants must fulfill the requirements for admission to Health Science Programs. See page 32.
- Student must have completed a postsecondary adult vocation or college certificate in an Allied Health area from an accredited program. Credits are awarded based upon length of program and current experience in field. Minimum work experience is six months at 32 hours per week post graduation.

Requirements for the Associate in Applied Science in Health Services Management

- Completion of 62 semester hours of credit with a degree grade point average of 2.0 or higher.
- Completion of all courses in the degree program, with a grade of "C" or higher.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HSC 1949</strong></td>
<td>Health Services Work Experience</td>
<td>20</td>
</tr>
<tr>
<td>HIM1300</td>
<td>Health Care Facilities and Delivery System</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2001</td>
<td>Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MAN 2021</td>
<td>Introduction Management</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Prof. and Tech. Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>HSC 1531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>*MTB 1310</td>
<td>Applied Mathematics or</td>
<td>3</td>
</tr>
<tr>
<td>*MAT 1033</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>*HSA 2810L</td>
<td>Practicum in Health Facility Ad</td>
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</table>

Total Semester Hours 50

Elective Courses

<table>
<thead>
<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td>Computer Applications</td>
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</tr>
<tr>
<td>Humanities/fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Social Science/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
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</table>

Total Elective Semester Hours 12

Total Program Semester Hours 62

*Requires a pre- or co-requisite. See course description in this catalog or online.

**Student must have PSAV certificate from an accredited program. Credits are awarded based upon length of program and current experience in field.

It is strongly recommended that students see an academic advisor or counselor every term.

Health Services Management Program Associate in Science Major Code 2129

Students seeking an Associate in Science Degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics or MAT 1033, Intermediate Algebra requirement in the Associate in Applied Science Degree with MAC1105 College Algebra or higher-level mathematics course or any College Level Science Course.
Hospitality and Tourism Management Associate in Applied Science Major Code A015

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.

Hospitality and Tourism Management Associate in Science Degree Major Code 2121

Students seeking an Associate in Science degree for the purpose of transferring into a state university shall substitute Mathematics or Science Elective requirement in the Associate in Applied Science degree with a college-level, transferable mathematics or science course and ENC 1102, Composition, in place of FSS 2500, Food Service Costing and Control.

First Year Term I
*ENC 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

Second Year Term I
SPC 1024 Introduction to Speech Communication 3
FSS 2500 Food Service Costing and Controls 3
HFT 2500 Marketing 3
HFT 1700 Introduction to Tourism Industry 3
HFT 1941 Operations and Service Practicum 3
Total Term Semester Hours 15

Second Year Term II
CGS 1100 Introduction to Computer Applications 3
HFT 2511 Convention and Group Business Marketing Management 3
HFT 2460 Financial Management 3
PSY 2012 General Psychology 3
HFT 2942 Management and Control Practicum 3
Total Term Semester Hours 15
Total Program Semester Hours 64

First Year Term III
Elective Humanities/Fine Arts 3
#Elective 1
Total Term Semester Hours 4

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

#GEB 2430, Business Ethics or any other one-credit elective.

It is strongly recommended that students see an academic advisor or counselor every term.
INDUSTRIAL MANAGEMENT TECHNOLOGY
Industrial Management Associate in Applied Science Major Code A033
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

Industrial Management Technology Associate in Applied Science Major Code A033

Academic Core Courses Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts (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 or Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communication or</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Academic Core Credits 18

Technical Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 2021</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>MNA 1161</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce or</td>
<td></td>
</tr>
<tr>
<td>*ENC 2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
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<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communication or</td>
<td></td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Introduction to Public Speaking</td>
<td></td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications</td>
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</tr>
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</table>

Total Technical Course Credits 42

Total A.A.S. Degree Credits 60

*Requires a pre- or co-requisite. See course description in this catalog or online.

Industrial Management Technology Associate in Science Degree Major Code 2194

Students seeking an Associate in Science degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics, with MAC 1105, College Algebra or higher.

#Twenty seven 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 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
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
Printing and Graphic Arts
Television Production

Technical education teachers who have completed the Broward County Public Schools ACTIVE Program may substitute vocational education coursework for Technical Education Core Courses.

Broward Community College  Catalog 2006-2007  www.broward.edu  165
INTERNET SERVICES TECHNOLOGY

CIW Master Designer Option Associate in Applied Science Major Code A036
CIW Master Designer Option Associate in Science Major Code 2196
Web Development Specialist Designer Option Technical Certificate Major Code 6285

CIW Master Designer Option Associate in Applied Science Major Code A036.

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 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1860C</td>
<td>I-Net+</td>
<td>4</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1824C</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
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Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CTS 1823C</td>
<td>Macromedia Dreamweaver 2</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1850C</td>
<td>Macromedia Flash 2</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2843</td>
<td>CIW E-Commerce Strategies and Practices I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II or</td>
<td></td>
</tr>
<tr>
<td>ENC 2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
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<tr>
<td><strong>Total Term Semester Hours</strong></td>
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Second Year, Term I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS/BUS</td>
<td>Computer Science/Business Elective*</td>
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<tr>
<td>CS/BUS</td>
<td>Computer Science/Business Elective*</td>
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<tr>
<td>CS/BUS</td>
<td>Computer Science/Business Elective*</td>
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<tr>
<td>ECO 2013</td>
<td>Principles of Economics</td>
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</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications or</td>
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<td>SPC 1600</td>
<td>Public Speaking</td>
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<tr>
<td><strong>Term Semester Hours</strong></td>
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Term Semester Hours

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
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<td>Computer Science/Business Elective*</td>
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<td>Computer Science/Business Elective*</td>
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<td>CS/BUS</td>
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<tr>
<td>GEB 2430</td>
<td>Business Ethics</td>
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<td>HUM/FA</td>
<td>Humanities/Fine Arts Elective</td>
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<tr>
<td><strong>Term Semester Hours</strong></td>
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</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td></td>
<td><strong>63</strong></td>
</tr>
</tbody>
</table>

*Any course with a ACG, CDA, CEN, CET, CIS, or COP, CTS, ECO, MAR, MNA prefix, except CGS2554C

1. Prerequisite – CTS 1860C (with a grade of C or higher)
2. Prerequisite – CTS 1823C (with a grade of C or higher)
3. Prerequisite – ENC 1101
4. Prerequisite – CGS 2843 (with a grade of C or higher)

Students pursuing an A.A.S. degree may substitute MTB1310 – Applied Mathematics or MAT1033 – Intermediate Algebra for MAC 1105. College Algebra

CIW Master Designer Option Associate in Science Major Code 2196

Second Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS/BUS</td>
<td>Computer Science/Business Elective*</td>
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<tr>
<td>CS/BUS</td>
<td>Computer Science/Business Elective*</td>
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<td>CS/BUS</td>
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<tr>
<td>GEB 2430</td>
<td>Business Ethics</td>
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<td>HUM/FA</td>
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<tr>
<td><strong>Term Semester Hours</strong></td>
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<td><strong>13</strong></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td></td>
<td><strong>63</strong></td>
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</table>

1. Prerequisite – CTS 1860C (with a grade of C or higher)
2. Prerequisite – CTS 1823C (with a grade of C or higher)
3. Prerequisite – ENC 1101
4. Prerequisite – CGS 2843 (with a grade of C or higher)
### WEB DEVELOPMENT SPECIALIST
**CIW Designer Option Technical Certificate Major Option 6285**

<table>
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<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
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<td><strong>First Year, Term I</strong></td>
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<tr>
<td></td>
<td>CGS 1100 Introduction to Computer Applications</td>
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<tr>
<td></td>
<td>CTS 1860C I-Net+</td>
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<tr>
<td></td>
<td>ENC 1101 Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>CTS 1842 Adobe Photoshop</td>
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<table>
<thead>
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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>CTS1823C Macromedia Dreamweaver¹ (Session 2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CTS 1850C Macromedia Flash² (Session 4)</td>
<td>3</td>
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<tr>
<td></td>
<td>CGS 2843 CIW E-Commerce Strategies and Practices I¹</td>
<td>3</td>
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<tr>
<td></td>
<td>CS/BUS Computer Science/Business Elective*</td>
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<tr>
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<td><strong>Total Term Semester Hours</strong></td>
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<table>
<thead>
<tr>
<th>Term III</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>CGS 1851C Cascading Style Sheets 1</td>
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<td></td>
<td>CGS 2840C CIW E-Commerce Strategies and Practices II²</td>
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<td>CS/BUS Computer Science/Business Elective*</td>
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<td><strong>Total Term Semester Hours</strong></td>
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<tr>
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<td><strong>Total Credits</strong></td>
<td><strong>35</strong></td>
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</table>

*Any course with a ACG, CDA, CEN, CET, CIS, COP, CTS, ECO, MAR, or MNA prefix, or CGS2554C

1. Prerequisite – CTS 1860C (with a grade of C or higher)
2. Prerequisite – CTS 1823C (with a grade of C or higher)
3. Prerequisite – CGS 2843 (with a grade of C or higher)
**INTERNET SERVICES TECHNOLOGY**

**CIW Master Designer Option Associate in Applied Science Major Code A036**

### First Year, Term I

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1860C</td>
<td>I-Net+</td>
<td>4</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>COP 1000C</td>
<td>Introduction to Computer Programming(^1) or</td>
<td>3</td>
</tr>
<tr>
<td>COP 1334C</td>
<td>Introduction to C++ Programming(^2)</td>
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**Total Term Semester Hours**: 13

### Term II

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS 1824C</td>
<td>CIW Design Methodology &amp; Technology: Concepts(^3) (Session 2)</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1821C</td>
<td>CIW Design Methodology and Technology: Site Development(^4) (Session 4)</td>
<td>3</td>
</tr>
<tr>
<td>CS ELEC</td>
<td>Computer Science Elective(^*)</td>
<td>4</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II or</td>
<td>3</td>
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<tr>
<td>MAT 1033</td>
<td>Intermediate Algebra or</td>
<td>3</td>
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<tr>
<td>MTB 1310</td>
<td>Applied Mathematics</td>
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**Total Term Semester Hours**: 16

### Second Year, Term I

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CTS 1850C</td>
<td>CIW Design Methodology and Technology: Dynamic Site Development(^5)</td>
<td>3</td>
</tr>
<tr>
<td>CTS 1851C</td>
<td>CIW Design Methodology and Technology: Multimedia(^6)</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2843</td>
<td>CIW E-Commerce Strategies and Practices I(^7)</td>
<td>3</td>
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<tr>
<td>Hum / FA</td>
<td>Humanities / Fine Arts Elective</td>
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<tr>
<td>ELECTIVE</td>
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**Total Term Semester Hours**: 15

### Total Program Semester Hours: 63

\(*\)Any course with a CDA, CEN, CET, CGS, CIS, or COP prefix, except CGS1000, CGS1060, CGS1061C, or CGS1570

1. Prerequisite – MAT 0024
2. Prerequisite – MAT 1033 or MTB 1310
3. Prerequisite – CTS 1860C (with a grade of C or higher)
4. Prerequisite – CTS 1824C (with a grade of C or higher)
5. Prerequisite – CTS 182EC (with a grade of C or higher)
6. Prerequisites CTS 1850C and CGS 1851C (each with a grade of C or higher)
7. Prerequisite – CGS 2413 (with a grade of C or higher)
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.

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. Legal assistants work in law firms, legal departments of major corporations, government agencies (federal, state and local), real estate departments of large businesses, trust departments of banks, brokerage houses, and insurance companies.

This program is approved by the American Bar Association (ABA). For additional information contact the Program Manager at Judson A. Samuels South Campus, 954-201-8011 or the Business Administration at Judson A. Samuels South Campus 954-201-8933 or the Business Administration office at North Campus, 954-201-2217

First Year Term I
*ENC 1101 Composition I 3
#CGS 1100 Intro To Computer Applications 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 1600 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.

#CGS 1100, Introduction to Computer Applications is transferable to A.A. Degree; OST 2764, 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:

CJL 1062 Constitutional Law 3
MTB 1103 Business Mathematics 3
SPN 1000 Elem. Spanish Conversation 3
PLA 2612C Adv. Title Search Procedures 3
BUL 2242 Business Law II 3
FIN 1100 Personal Finance or 3
PLA 2940 Legal Assisting Practicum 3

It is recommended that you see an academic advisor, counselor or the program manager every term.

Broward Community College Catalog 2006-2007 www.broward.edu 169
**Program Description**

The Associate in Applied Science degree in Marketing Management, offered at North and A. Hugh Adams Central Campuses, emphasizes the development of management and leadership skills needed in marketing occupations such as advertising, selling, entrepreneurship, and international business. Students have the opportunity to participate in both state and national marketing competitions through membership in BCC Delta Epsilon Chi. For additional information contact the Program Manager, A. Hugh Adams Central Campus, (954) 201-6725, or North Campus, (954) 201-2363. Student Alert: Students need to be aware that some courses are only offered once per year.

**First Year Term I**
- MAR 1011 Principles of Marketing 3
- MKA 1021 Salesmanship 3
- MKA 1930 Seminar I: Marketing in Perspective 3
- OST 2335 Communications in the Workforce 3
- Business Elective
  **Total Term Semester Hours** 15

**Second Year Term II**
- MKA 1930 Seminar I: Marketing in Perspective 3
- MKA 2102 Retailing 3
- MKA 2931 Seminar II: Research in Marketing 3
  **Total Term Semester Hours** 15

**First Year Term II**
- MKA 1511 Advertising 3
- MAR 2141 International Marketing 3
- MNA 1161 Introduction to Customer Service 3
- MKA 2102 Retailing 3
- Business Elective
  **Total Term Semester Hours** 15

**Second Year Term I**
- MKA 2932 Seminar III: Marketing Management 3
- Business Elective 3
- Elective Humanities/Fine Arts 3
- ECO 2013 Principles of Economics I 3
- ACG 2001 Principles of Accounting I 3
  **Total Term Semester Hours** 15

**Second Year Term II**
- MKA 2932 Seminar III: Marketing Management 3
- Business Elective 3
- Elective Humanities/Fine Arts 3
- ECO 2013 Principles of Economics I 3
- ACG 2001 Principles of Accounting I 3
  **Total Term Semester Hours** 15
Marketing Operations Technical Certificate Major Code 6240

Program Description
The Marketing Operations Certificate, offered at Central and North Campus, is a program designed to prepare students for immediate employment in the area of marketing. It will also meet the needs of those students who already have a two or four-year degree and are seeking new employability skills.

First Year Term I
MAR 1011 Principles of Marketing 3
MKA 1021 Salesmanship 3
MKA 1930 Seminar I: Marketing in Perspective 3
MNA 1821C Introduction to E-Commerce 3
Total Term Semester Hours 12

First Year Term II
MKA 1511 Advertising 3
MAR 2141 International Marketing 3
MNA 1161 Introduction to Customer Service 3
+MKA 2102 Retailing or 3
#GEB 2112 Entrepreneurship 3
Total Option Semester Hours 12
Total Certificate Semester Hours 24

*Requires a pre-requisite. See course description in this catalog or Online.

#Offered at A. Hugh Adams Central Campus only.

Students who test into college preparatory courses must successfully complete all required college preparatory courses to qualify for graduation.

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

(1) Must be college-level, transferable mathematics or science elective.

It is strongly recommended that students see an academic advisor or counselor every term.
MASSAGE THERAPY
Vocational Certificate Major Code 5281

Program Description
The Massage Therapy Program, offered at Health Science, North Campus, is a vocational certificate approved by the Florida Board of Massage Therapy. Graduates are eligible to take the Florida Board of Massage Therapy licensure examination.

The role of the Massage Therapist is to perform therapeutic massage as prescribed by Florida law. Duties and responsibilities may encompass skills of manipulation of the soft tissues of the human body. For application information please call (954) 201-2058. For specific program information please call the Program Manager at (954) 201-2074.

Requirements for the Vocational Certificate in Massage Therapy:
- Applicants must fulfill the requirements for admission to Health Science Programs. See page 32.
- Completion of the program clock hours with a 2.0 or higher certificate grade point average (GPA).
- Obtain TABE assessment scores at or above the state mandated grade level unless exempt.
- The following core courses should be completed by the end of the first term or can be completed before enrollment into the Massage Therapy Program: Health Care Career Core (HCP 0130); Basic Life Support (CAE 0299); HIV/AIDS (CAE 0382); Domestic Violence (CAE 0474); TB/OSHA/HEPATITIS (CAE 0476).
- **Total Clock Hours 95.**
- Complete all courses with a grade of “C” or higher.

### Clock Hours

#### Summer
<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HCP 0130</td>
<td>Health Careers Core</td>
<td>75</td>
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<tr>
<td>CAE 0299</td>
<td>Basic Life Support</td>
<td>8</td>
</tr>
<tr>
<td>CAE 0382</td>
<td>HIV/AIDS</td>
<td>4</td>
</tr>
<tr>
<td>CAE 0474</td>
<td>Domestic Violence</td>
<td>2</td>
</tr>
<tr>
<td>CAE 0476</td>
<td>OSHA/TB</td>
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#### Term I

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<tr>
<td>*MSS 0250</td>
<td>Introduction to Massage Therapy</td>
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<tr>
<td>*MSS 0250L</td>
<td>Introduction to Massage Therapy Lab</td>
<td>170</td>
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<td>*MSS 0001</td>
<td>Medical Ethics and Standards</td>
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<tr>
<td>*MSS 0150</td>
<td>Anatomy and Physiology of Body Systems</td>
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#### Term II

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<tr>
<td>*MSS 0281</td>
<td>Allied Modalities</td>
<td>15</td>
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<tr>
<td>*MSS 0281L</td>
<td>Allied Modalities Lab</td>
<td>120</td>
</tr>
<tr>
<td>*MSS 0156</td>
<td>Anatomy and Physiology Massage Therapy II</td>
<td>45</td>
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<tr>
<td>*MSS 0156L</td>
<td>Anatomy and Physiology Massage Therapy II Lab</td>
<td>60</td>
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#### Term III Session II

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<th>Credits</th>
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<tbody>
<tr>
<td>*MSS 0300</td>
<td>Hydrotherapy Modalities</td>
<td>15</td>
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<tr>
<td>*MSS 0300L</td>
<td>Hydrotherapy Modalities Lab</td>
<td>45</td>
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#### Term III Session III

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<tr>
<td>*MSS 0803L</td>
<td>Massage Therapy Clinical Prac.</td>
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<td><strong>Total Program Clock Hours</strong></td>
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-Restricts a Pre- or co-requisite course. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Medical Assisting Program is a 10-month vocational certificate program. The Broward Community 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 externships in physicians’ offices throughout Broward County which offer maximum flexibility. The externship 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 certifying exam of the American Association of Medical Assistants.

For all admissions type questions applicants should call (954)-201-6056 or 6735. Applicants should call the program manager for specific information at (954) 201-6906. All courses are taught in Bldg 8, Broward Community College, A. Hugh Adams Central Campus, 3501 S W Davie Road, Davie, FL.

Criteria for Admission into Medical Assisting Vocational Certificate:
- Applicants must fulfill the requirements for admission to Health Science Programs. Applicants must submit an original copy of a typing test verifying 35 WPM proficiency. The typing test shall be signed and dated by the professor administering the test. Applicants without signed typing tests should go to the Center for Health Science Education, A. Hugh Adams Central Campus, Building 8 and make arrangements to take this test in the Typing Lab. 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.

Requirements for the Vocational Certificate in Medical Assisting:
- Completion of 1156 clock hours, 9 college semester hours (144 contact hours) and a grade point average of 2.0 or higher. No grade lower than “C” will be acceptable in ALL courses required for the Medical Assisting Certificate.
- Obtain TABE Assessment scores at or above the state mandated grade level.

Pre-requisite Courses:
- HCP 0130 Health Careers Core Curriculum 75
- CAE 0299 Basic Life Support 8
- CAE 0382 HIV/AIDS 4
- CAE 0474 Domestic Violence 2
- CAE 0476 OSHA/TB 6
- CAE 0528 Prevention of Medical Errors 2
Total Clock Hours 95

Term I Session I
- HSC 1531 Medical Terminology 3
- MEA 1233 Anatomy and Physiology 3
Total Term Semester Hours 6

Term I Session I
- *MEA 0271 Administrative Office Procedures 64
- MEA 0258 Radiology for Medical Assisting I 64
- *MEA 0271L Admin. Office Procedures Lab 48
Total Term Clock Hours 176

Term I Session II
- *MEA 0255 Basic Laboratory Procedures I 48
- *MEA 0255L Basic Laboratory Procedures I Lab 48
Total Term Clock Hours 96

Term I Session IV
- *MEA 0256 Basic Laboratory Procedures II 48
- *MEA 0256L Basic Laboratory Procedures II Lab 48
- *MEA 0005 Introduction to Medical Assisting 32
Total Term Clock Hours 128

Term II, Session I
- MEA 0240 Clinical Procedures I 64
- MEA0204L Clinical Procedures I Lab 64
- MEA 0259 Radiography for MA II 64
- MEA 0259L Radiography for MA II Lab 48
- MEA 0242 Pharmacology for MA 64
- MEA0540 Electrocardiography for MA 37
- MEA 0540L Electrocardiography Lab 38
Total Term Clock Hours 379
### Term II Session II

- MEA 0382 Law and Ethics 32

*Total Semester Clock Hours* 32

### Term III Session II

- MEA 0800 Externship In Medical Assisting 224
- MEA 0952 Seminar in Medical Assisting 26

*Total Semester Clock Hours* 250

### Notes:

- *Requires a pre- or co-requisite. See course description in this catalog or online.*
- *(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.

It is strongly recommended that students see an academic advisor or counselor every term.
**Network Administrator**

Microsoft MCSE Associate in Science Major Code 21931  
Microsoft MCSE Associate in Applied Science Major Code A019  
Cisco CCNP Program Associate in Science Major Code 21933  
Cisco CCNP Program Associate in Applied Science Major Code A034  
Networking-Cisco CCNA Technical Certificate Major Code 62387  
Information Technology Technician Novell CNA Technical Certificate Major Code 6282  
Information Technology Management (Microsoft MCSA option) Major Code 6283

### Microsoft MCSE Associate in Science Major Code 21931

**Program Description**
The Microsoft MCSE Associate in Science and Associate in Applied Science degrees, offered at the A. Hugh Adams Central Campus, prepare students for employment opportunities as network support specialists and network administrators in Microsoft Windows environments. It is designed for students seeking to successfully pass the seven Microsoft qualifying exams and attain the title Microsoft Certified System Engineer (MCSE).

<table>
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<tr>
<th>First Year Term I</th>
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<tbody>
<tr>
<td>CDA 1403C</td>
<td>PC Support and Service – Operating Systems (Session 2)</td>
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<tr>
<td>*CDA 1302C</td>
<td>PC Support and Service – Hardware¹ (Session 4)</td>
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<tr>
<td>*CEN 1509C</td>
<td>Network+</td>
<td>4</td>
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<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
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<tr>
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<thead>
<tr>
<th>First Year Term II</th>
<th></th>
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<tbody>
<tr>
<td>*CEN 1300C</td>
<td>Implementing Microsoft Windows Prof.²</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>*ENC 1102</td>
<td>Composition II or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*ENC 2210</td>
<td>Professional and Technical Writing</td>
<td>3</td>
<td></td>
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<tr>
<td>*MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Introduction to Speech Communications</td>
<td>3</td>
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<table>
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<tr>
<th>First Year Term III</th>
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<tbody>
<tr>
<td>*CEN 1301C</td>
<td>Implementing Microsoft Windows Server³ (Session 2)</td>
<td>4</td>
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<tr>
<td>*CEN 1315C</td>
<td>Implementing Microsoft Windows Network Infrastructure⁴ (Session 3)</td>
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<table>
<thead>
<tr>
<th>Second Year Term I</th>
<th></th>
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<tbody>
<tr>
<td>*CEN 1321C</td>
<td>Implementing Microsoft Windows Directory Services⁵ (Session 2)</td>
<td>4</td>
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<td><strong>Total Term Semester Hours</strong></td>
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</table>

| *CEN 1327C          | Planning and Maintaining Microsoft Windows Network Infrastructure | 4               |
| #Elective Computer Science | 4               |
| Elective Humanities/Fine Arts | 3               |
| **Total Term Semester Hours** | 15             |                |                |

<table>
<thead>
<tr>
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<td>###Elective MCSE</td>
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<tr>
<td>Elective Computer Science</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Elective Social/Behavioral Science</td>
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</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td>14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Total Program Semester Hours** | 63             |                |                |

*Any course with a CDA, CEN, CET, CIS, CTS or COP prefix.  
**CEN 1323C or CEN 1325C  
###CEN 1323C, CEN 1325C, CTS 2811C, CTS 2814, or CTS 2312C  
*Requires a pre- or co-requisite. See course description in this catalog or online.

Prerequisites requiring a grade of C or higher:  
1. Pre-requisite CDA 1403C  
2. Pre-requisite CDA 1403C, co-requisite CDA 1302C  
3. Pre-requisite CDA 1403C and CDA 1302C and CEN 1300C  
4. Pre-requisite CDA 1403C and CDA 1302C and CEN 1300C and CEN 1301C  
5. Pre-requisite CDA 1403C and CDA 1302C and CEN 1300C and CEN 1301C and CEN 1315C

It is strongly recommended that students see an academic advisor or counselor every term.

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**Microsoft MCSE Associate in Applied Science Major Code A019**

+Students pursuing an Associate in Applied Science Degree may substitute MAC 1105 with MTB 1310 Applied Mathematics or MAT 1033 Intermediate Algebra.
### Cisco CCNP Associate in Science Major Code 21933

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Second Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 1403C PC Support and Service-Operating Systems (Session 2)</td>
<td>*CET 2627C Cisco Networking VII B (Session 2) 5</td>
</tr>
<tr>
<td>CDA 1302C PC Support and Service-Hardware (Session 4) 3</td>
<td>*CET 2628C Cisco Networking VIII B (Session 4) 6</td>
</tr>
<tr>
<td>CET 1630C Network Cabling Technologies 4</td>
<td>Elective Social/Behavioral Science 3</td>
</tr>
<tr>
<td>*ENC 1101 Composition I 3</td>
<td>Total Term Semester Hours 14</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 13</td>
<td><strong>Total Program Semester Hours</strong> 63</td>
</tr>
</tbody>
</table>

1. Pre-requisite-CDA 1403C with grade of C or higher.
2. Pre-requisite-CDA 1403C and CDA 1302C and CET 1630C each with grade of C or higher.
3. Pre-requisite-CDA 1403C, CDA 1302C, CET 1630C and CET 1600C each with grade of C or higher.
4. Pre-requisite-CDA 1403C, CDA 1302C, CET 1630C, CET 1600C and CET 1610C each with grade of C or higher.
5. Pre-requisite-CET 1620C with grade C or higher or proof of CCNA certification.
6. Pre-requisite-CET 2625C with grade of C or higher.
7. Pre-requisite-CET 2626C, and CET 2627C each with grade of C or higher.

### Cisco CCNP Associate in Applied Science Major Code A034

Students seeking a Cisco CCNP Associate in Applied Science degree shall substitute MAC 1105 with MTB 1310, Applied Mathematics or MAT 1033, Intermediate Algebra.

### Networking-Cisco CCNA Technical Certificate Major Code 62387

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>#Computer Science Elective-Any course with a CDA, CEN, CET, CIS, or COP prefix.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 1403C PC Support and Service-Operating Systems (Session 2) 3</td>
<td>*Requires a pre-requisite</td>
</tr>
<tr>
<td>*CDA 1302C PC Support and Service Hardware (Session 4) 3</td>
<td></td>
</tr>
<tr>
<td>CET 1630C Network Cabling Technologies 4</td>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong> 10</td>
<td></td>
</tr>
</tbody>
</table>

1. Pre-requisite-CDA 1403C.
2. Pre-requisite-CDA 1403C and CDA 1302C and CET 1630C.
3. Pre-requisite-CDA 1403C and CDA 1302C and CET 1630C and CET 1600C.
4. Pre-requisite-CDA 1403C and CDA 1302C and CET 1630C and CET 1600C and CET 1610C.
5. Pre-requisite-CDA 1403C and CDA 1302C and CET 1630C and CET 1600C and CET 1610C and CET 1615C.

It is strongly recommended that students see an academic advisor or counselor every term.
## Information Technology Technician Novell CNA Technical Certificate Major Code 6282

**Program Description**
The Information Technology Technician (Novell CNA Certificate) offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as network support specialists and network administrators in Novell NetWare environments.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 1403C PC support and Service-Operating</td>
<td>3</td>
</tr>
<tr>
<td>Systems (Session 2)</td>
<td></td>
</tr>
<tr>
<td>*CDA 1302C PC Support and Service-</td>
<td></td>
</tr>
<tr>
<td>Hardware 1 (Session 4)</td>
<td>3</td>
</tr>
<tr>
<td>*CEN 1509C Network+</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*CEN 1300C Implementing Microsoft Windows</td>
<td>4</td>
</tr>
<tr>
<td>Professional 2</td>
<td></td>
</tr>
<tr>
<td>*CEN 1503C NetWare Administration 3</td>
<td>4</td>
</tr>
<tr>
<td>#Elective Computer Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>11</strong></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See course description in this catalog or online.

#Any Course with a CDA, CEN, CET, CIS, or COP prefix. Suggested elective: CEN 1504C

1. Pre-requisite-CDA 1403C with grade of C or higher
2. Pre-requisite-CDA 1403C with grade of C or higher; co-requisite-CDA 1302C
3. Pre-requisite-CDA 1403C and CDA 1302C each with grade of C or higher

## Information Technology Management (Microsoft MCSA Option) Technical Certificate Major Code 6283

**Program Description**
The Information Technology Management (Microsoft MCSA Option) Technical Certificate is offered on A. Hugh Adams Central Campus

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 1403C PC Support &amp; Services-Operating</td>
<td>3</td>
</tr>
<tr>
<td>Systems</td>
<td></td>
</tr>
<tr>
<td>*CDA 1302C PC Support &amp; Service –Hardware 1</td>
<td>3</td>
</tr>
<tr>
<td>*CEN 1300C Implementing Microsoft Windows</td>
<td>4</td>
</tr>
<tr>
<td>Professional 2</td>
<td></td>
</tr>
<tr>
<td>*CEN 1509C Network+</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*CEN 1301C Implementing Microsoft Windows</td>
<td>4</td>
</tr>
<tr>
<td>Server 2</td>
<td></td>
</tr>
<tr>
<td>*CEN 1315C Implementing Microsoft Windows</td>
<td>4</td>
</tr>
<tr>
<td>Network Infrastructure 3</td>
<td></td>
</tr>
<tr>
<td>#Elective MCSE elective</td>
<td>4</td>
</tr>
<tr>
<td>+Elective Computer Science Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

*Pre-requisites require a grade of C or higher:

1. CDA 1403C
2. Pre-requisite CDA 1403C, Co-requisite CDA 1302C
3. Pre-requisites CDA 1403C, CDA 1302C and CEN 1300C
4. Pre-requisites CDA 1403C, CDA 1302C, CEN 1300C, and CEN 1301C

#MCSE electives – CTS 2312C, CTS 2811C or CTS 2814C

+Computer Science Electives – any course with a CDA, CEN, CET, CIS, CTS, or COP prefix
NUCLEAR MEDICINE TECHNOLOGY
Nuclear Medicine Technology Associate in Science Major Code 2102
Nuclear Medicine Technology Specialist Technical Certificate Major Code 6224

Program Description
Nuclear Medicine Technologists prepare and administer tracer 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 images (scans).

Clinical Education is performed in local clinics and hospitals in Palm Beach and Broward counties and is offered concurrently with the didactic courses.

The Program maintains regional accreditation through the Southern Association of Colleges and Schools.

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 Radiography program which leads to registration and/or licensure. Preference is given to Registered Radiographers. Applicants who have a minimum of a two-year patient care related Health Science Degree and are certified and/or licensed in the degree of specialization are also welcome to apply. Upon completion of the twelve (12) months full-time day program, the student will be eligible to write the Nuclear Medicine Exam offered by, and become certified by, the American Registry of Radiologic Technologists and/or write the exam offered by the Nuclear Medicine Technology Certification Board. Successfully passing these exams will allow the student to become licensed by the State of Florida.

Applicants should call (954) 201-2058 or 2890 for admissions information. Applicants should call the Program Manager at (954) 201-2083 for specific program information.

The program is offered in building 41, BCC 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.

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., RADILOGIC TECHNOLOGY).
- Complete the following courses with a grade of “C” or higher: ENC 1101, BSC 1085, CHM 1033, and MTB 1310 or MAT 1033.

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

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<table>
<thead>
<tr>
<th>Nuclear Medicine Technology Specialist Technical Certificate Major Code 6224</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prerequisites</strong></td>
</tr>
<tr>
<td>*ENC 1101  College Composition 3</td>
</tr>
<tr>
<td>*CHM 1033  Chemistry for the Health Sciences 3</td>
</tr>
<tr>
<td>*BSC 1085  Anatomy and Physiology I 3</td>
</tr>
<tr>
<td>BSC 1085L Anatomy and Physiology I Lab 1</td>
</tr>
<tr>
<td>*MTB 1310  Applied Mathematics or *MAT 1033  Intermediate Algebra 3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong> 13</td>
</tr>
</tbody>
</table>

| **First Year Term I**                                                       |
| *NMT 1002  Introduction to Nuclear Medicine 3                              |
| *NMT 2534  Nuclear Med. Instrumentation 3                                   |
| *NMT 2485  Nuclear Medicine Methodology 3                                   |
| *NMT 2705L Nuclear Medicine Lab. I 1                                        |
| *NMT 2834  Clinical Education 2                                             |
| *NMT 2130  Nuclear Med. Radiopharmacy 3                                     |
| **Total Semester Hours** 15                                                  |

| **First Year Term II**                                                      |
| *NMT 1312  Nuclear Med. Radiation Protection and Safety 3                   |
| *NMT 2573  Quality Control/Assurance 3                                     |
| *NMT 2706L Nuclear Medicine Lab. II 1                                      |
| *NMT 2844  Clinical Education 3                                            |
| *NMT 2102  Nuclear Medicine Administration 2                              |
| PHY 1001  Applied Physics 3                                                |
| **Total Term Semester Hours** 15                                            |

| **First Year Term III**                                                     |
| *NMT 2061  Nuclear Medicine Seminar 3                                      |
| *NMT 2863  Clinical Education 2                                            |
| **Total Term Semester Hours** 5                                             |
| **Total Program Hours** 48                                                  |

*Requires a pre- or co-requisite. See course description in this catalog or online.
Nuclear Medicine Technology Associate in Science Major Code 2102

This Associate in Science degree program is a two-year 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 to write the Nuclear Medicine Exam offered by, and become certified by, the American Registry of Radiologic Technologists AND/OR write the exam offered by the Nuclear Medicine Technology Certification Board. Successfully passing these exams will allow the student to become licensed by the State of Florida.

Clinical Education is performed in local clinics and hospitals and is offered concurrently with the didactic courses. The program maintains regional accreditation throughout the Southern Association of Colleges and Schools.

**Criteria for Admission to Associate in Science Degree in Nuclear Medicine Technology:**
- Applicants must fulfill the requirements for admission to Health Science Programs. A minimum 2.5 degree GPA. Applicants must complete the Pre-Health Science Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474, and CAE 0476) after submitting the Health Science application and prior to entering the program.
- Applicants must complete the pre-requisite courses with a grade of “C” Plus or higher prior to submitting an application (See list below.).

**ADMISSION 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 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.

**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.

<table>
<thead>
<tr>
<th>Pre-requisite Courses</th>
<th>Total Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*CHM 1033 Chemistry for Health Sciences</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 Lab I</td>
<td>1</td>
</tr>
<tr>
<td>*MAT 1033 Intermediate Algebra or</td>
<td></td>
</tr>
<tr>
<td>*MTB 1310 Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**First Year Term I**
- *NMT 1002 Introduction to Nuclear Medicine | 3 |
- *NMT 1002L Nuclear Medicine Lab | 1 |
- PHY 1001 Applied Physics | 3 |
- PHY 1001L Applied Physics Lab | 1 |
- CGS 1000 Microcomputer Applications | 3 |
- HSC 1531 Medical Terminology | 3 |
| **Total Term Semester Hours** | **14** |

**First Year Term II**
- *NMT 1312 Radiation Protection and Safety | 3 |
- *NMT 1814 Nuclear Med. Clinical Ed. II | 3 |
- Elective Social/Behavioral Science | 3 |
- *BSC 1086 Anatomy and Physiology II | 3 |
- *BSC 1086L Anatomy and Physiology Lab II | 1 |
| **Total Term Semester Hours** | **13** |

**First Year Term III**
- SPC 1024 Introduction to Speech Communications | 3 |
- NMT 1824 Clinical Education III | 2 |
| **Total Term Semester Hours** | **5** |

**Second Year Term I**
- *NMT 2485 Nuclear Medicine Methodology | 3 |
- *NMT 2705L Nuclear Medicine Laboratory I | 1 |
- *NMT 2130 Nuclear Med. Radiopharmacy | 3 |
- *NMT 2834 Clinical Education IV | 2 |
- *NMT 2534 Nuclear Med. Instrumentation | 3 |
| **Total Term Semester Hours** | **12** |

**Second Year Term II**
- *NMT 2573 Quality Control/Assurance | 3 |
- *NMT 2706L Nuclear Medicine Laboratory II | 1 |
- *NMT 2102 Nuclear Medicine Administration | 2 |
- *NMT 2844 Clinical Education V | 3 |
- Elective Humanities/Fine Arts | 3 |
| **Total Term Semester Hours** | **12** |

**Second Year Term III**
- *NMT 2061 Nuclear Medicine Seminar | 3 |
- *NMT 2854 Clinical Education VI | 3 |
| **Total Term Semester Hours** | **6** |
| **Total Program Hours** | **75** |

*Requires a pre- or co-requisite. Refer to the course descriptions found in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.
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 means 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 practices 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 61 Broadway, 33rd Floor, New York, NY, 10006, (800) 669-1656, or Fax (212)-812-0390. www.nlnac.org.

The student who has met all educational and institutional requirements for an Associate in Science Degree in Nursing from Broward Community College is eligible to have his/her name submitted to the Florida Board of Nursing be considered as a candidate for the 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. 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 contact the Florida Board of Nursing web site http://www.doh.state.fl.us/mqa/nursing/nur_home.html or call 850-488-0595 or email MedicalQualityAssurance@doh.state.fl.us.

Program Description and Options
The Nursing Program offers two fulltime 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. 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) 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 courses require 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; community health; 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 capable to perform basic computer skills such as word processing, sending and receiving emails, and file management.

**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 XXI, Chapter 435.04 Level 2 Screening Standards may not be eligible for admission and/or may be dismissed from the nursing program. 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 Community 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 work place. The College policies related to substance abuse can be found in the current Broward Community 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 in order to enroll in any nursing course. Additionally, students must agree, at the time of admission into the program, to be drug tested at any time while in the program. Evidence of substance abuse will result in immediate administrative dismissal from the program. Nursing students must notify the Associate Dean of the Nursing Program if they are taking prescription drugs that have the potential to affect performance in the clinical area. 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.

**ALL NURSING STUDENTS WHO ARE ADMITTED, OR RE-ADMITTED, TO THE NURSING PROGRAM SHALL ADHERE TO ALL CURRENT DEPARTMENTAL POLICIES.**

**Criteria for Admission to the Nursing Program**

*Before submitting an application to the nursing program the student must:*  
- 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.

*Eligibility for admission into the nursing program will be dependent upon the following:*  
- 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 can be obtained from the Nursing Program web page.
- HCP0130 (Health Care Career Course) 75.0 Contact Hours. The student may be eligible for a waiver, contact Health Science Admissions for more information.
- Satisfactory score on the nursing preadmission exam.
- Satisfactory Criminal Background Check and Drug Screening.

*The following must be submitted to the Nursing Department on the campus where the student will be attending nursing courses prior the nursing orientation:*  
- 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 orientation day for nursing students.
- BLS-Basic Life Support for Health Care Providers (CAE0299). The curriculum must be approved by the American Heart Association 8 Contact Hours
- CAE0474 (Domestic Violence) 2.0 Contact Hours; CAE0382 (HIV/AIDS) 4.0 Contact Hours; CAE 0476 (OSHA/TB/Hepatitis) 6.0 Contact Hours; CAE 0528 (Prevention of Medical Errors) 2.0 Contact Hours
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 catalog. 

The following pre-requisite courses must be completed with a minimum 2.5 GPA, prior to submitting the Nursing Program admissions application: 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*CHM 1033</td>
<td>Chemistry for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1085</td>
<td>Anatomy 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 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>

Additional General Education Courses Required: 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<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>*APB 1600</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>*MTB 1370</td>
<td>Math for Health Related Professions</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>Humanities/Fine Arts (writing requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Social/Behavior Science | 3 |

Total Semester Credit Hours: **27**

**GENERIC (RN) OPTION*** 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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Total Semester Hours: **45**

Total Program Semester Hours: **72**

**LPN/RN TRANSITION OPTION*** 

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Total Semester Hours: **36**

**LPN Transfer Credit:**

**Total Program Semester Hours:** **72**

*Requires a pre- or co-requisite. Refer to the course descriptions found in this catalog or online.  
**Upon completion of NUR 2020 and NUR 2000L, nine (9) semester credits will be awarded for the LPN license. A fee will be charged.  
***Successful completion of the Nursing Program will satisfy the SACS oral communication competency standard.

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.
OFFICE ADMINISTRATION
Legal Office Specialization Associate in Applied Science Major Code A021
Medical Office Specialization Associate in Applied Science Major Code A022
Medical Office Management Technical Certificate Major Code 6281
Office Management Specialization Associate in Applied Science Major Code A023
Office Software Applications Specialization Associate in Applied Science Major Code A024
Office Management Technical Certificate Major Code 6237
Office Specialist Technical Certificate Major Code 6280
Office Support Technical Certificate Major Code 6279

Legal Office Specialization Associate in Applied Science Major Code A021

Program Description
The Legal Office Specialization Associate in Applied Science Degree, offered at the North and South Campus, emphasizes legal techniques procedures, and the office skills used in law offices. Specialization in one or two legal fields is accomplished by careful selection of electives.

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<td>Legal Office Techniques I</td>
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<td>Business Mathematics</td>
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<td>OST 1330</td>
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<tr>
<td>Business English</td>
<td>Co-Op or Elective</td>
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<td>It is strongly recommended that students see an academic advisor or counselor every term.</td>
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It is strongly recommended that students see an academic advisor or counselor every term.

Medical Office Specialization Associate in Applied Science Major Code A022

Program Description
The Medical Office Specialization Associate in Applied Science Degree, offered at the North and South Campus, emphasizes medical terminology and the office skills used in medical offices.

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It is strongly recommended that students see an academic advisor or counselor every term.

Broward Community College
Catalog 2006-2007
www.broward.edu
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*Requires a pre- or co-requisite or proper score on placement test. See course description in catalog or online.

#Electives-select from courses with the prefixes ACG, CGS, HIM, MAN, MNA, GEB or ECO

It is strongly recommended that students see an academic advisor or counselor every term.

### Office Management Specialization Associate in Applied Science Major Code A023

**Program Description**
The Office Management Specialization Associate in Applied Science Degree, offered at the North and South Campus, emphasizes competencies in the most frequently used business computer applications. This program also prepares the student to assume some of the responsibility of the executive in the office.

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#Elective-select from OST, CGS, GEB, MAN, MNA, BUL, GRA, SPC, or ACG courses.

It is strongly recommended that students see an academic advisor, counselor or OST faculty member every term.

### Office Software Applications Specialization Associate in Applied Science Major Code A024

**Program Description**
The Office Software Applications Specialization Associate in Applied Science Degree, offered at the North and South Campus, prepares the student for employment as a skilled computer information processing specialist. Emphasis is placed on the design and preparation of text and graphical documents used in business offices.

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<td>Telecommunications 1</td>
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<td>Business English 1</td>
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<td><strong>Total Program Semester Hours</strong></td>
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</tbody>
</table>

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

#Elective-select from OST, CGS, GEB, MAN, MNA, BUL, GRA, SPC, or ACG courses.

It is strongly recommended that students see an academic advisor, counselor or OST faculty member every term.
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It is strongly recommended that you see an academic advisor or the program manager every term.

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</table>

*Requires a pre- or co-requisite. See course description in this catalog or online.

#Elective-select from BUL, CGS, GEB, MAN, MNA, OST, ACG, GRA, or SPC courses.

It is strongly recommended that students see an academic advisor or counselor every term.

---

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses and Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year Term I</strong></td>
<td><strong>CGS 1100</strong> Introduction to Computer Applications 3</td>
</tr>
<tr>
<td></td>
<td><strong>OST 1100L</strong> Keyboarding and Document Processing I 3</td>
</tr>
<tr>
<td></td>
<td><strong>OST 1330</strong> Business English 1</td>
</tr>
<tr>
<td></td>
<td><strong>OST 1110L</strong> Keyboarding and Document Processing II 3</td>
</tr>
<tr>
<td></td>
<td><strong>OST 2335</strong> Communications in the Workforce 3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
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</tr>
</tbody>
</table>

*Requires a pre or co-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that you see an academic advisor or the program manager every term.
First Year Term II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>OST 1355</td>
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</tr>
<tr>
<td>OST 2335</td>
<td>Communications in the Workforce</td>
<td>3</td>
</tr>
<tr>
<td>OST 2501</td>
<td>Office Management</td>
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<tr>
<td>OST 2601</td>
<td>Transcribing Machines</td>
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<td><strong>Total Term Semester Hours</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Requires a pre or co-requisite or proper score on placement test. See course description in this catalog or online.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Certificate Semester Hours 27

Office Specialist Technical Certificate Major Code 6280

Program Description
This technical certificate, offered at the North and South Campus, is designed to prepare students for employment in occupations such as: general office assistant, clerical service specialist, file room technician, office clerk, receptionist, records management specialist, or to provide supplemental training for persons previously or currently employed in these occupations.

Certificate Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OST 1100L</td>
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<td>3</td>
</tr>
<tr>
<td>*OST 1110L</td>
<td>Keyboarding and Document Processing II</td>
<td>3</td>
</tr>
<tr>
<td>OST 1330</td>
<td>Business English</td>
<td>1</td>
</tr>
<tr>
<td>OST 1831</td>
<td>Windows/Graphical Environment or</td>
<td></td>
</tr>
<tr>
<td>OST 2053</td>
<td>Successful Job Search</td>
<td>1</td>
</tr>
<tr>
<td>OST 1795</td>
<td>Telecommunications</td>
<td>1</td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
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<td>OST 1355</td>
<td>Records Management</td>
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</tr>
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<td>OST 2335</td>
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<td><strong>Total Program Semester Hours</strong></td>
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</table>

*Requires a pre or co-requisite or proper score on placement test. See course descriptions in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.

Office Support Technical Certificate Major Code 6279

Program Description
This technical certificate, offered at the North and South Campus, is designed to prepare students for employment in occupations such as: office assistant, data entry specialist/clerk, receptionist, information clerk, support clerk, or to provide supplemental training for persons previously or currently employed in these occupations.

Certificate Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OST 1100L</td>
<td>Keyboarding and Document Processing I</td>
<td>3</td>
</tr>
<tr>
<td>OST 1110L</td>
<td>Keyboarding and Document Processing II</td>
<td>3</td>
</tr>
<tr>
<td>OST 1330</td>
<td>Business English</td>
<td>1</td>
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<tr>
<td>OST 1831</td>
<td>Windows/Graphical Environment or</td>
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<tr>
<td>OST 2053</td>
<td>Successful Job Search</td>
<td>1</td>
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<tr>
<td>OST 1795</td>
<td>Telecommunications</td>
<td>1</td>
</tr>
<tr>
<td>CGS 1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
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<tr>
<td><strong>Total Program Semester Hours</strong></td>
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</tbody>
</table>

*Require a pre or co-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.
### Administrative Assistant Vocational Certificate Major Code 5279

#### Program Description
The Administrative Assistant Vocational Certificate Program, offered at the South Campus, is designed to prepare the student to obtain entry-level employment in an office as a Receptionist, Word Processor, or Data Entry Operator. The program of study concentrates on developing the interpersonal and computer skills required for success in an office work setting.

<table>
<thead>
<tr>
<th>Term I</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 0010 Office Skills Training I</td>
<td>75</td>
</tr>
<tr>
<td>OFT 0011 Office Skills Training II</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0001 Office Support Tech I</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0002 Office Support Tech II</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total Term Vocational Hours</strong></td>
<td><strong>300</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Term II</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCA 0450 Spreadsheet and Database Applications I</td>
<td>75</td>
</tr>
<tr>
<td>OCA 0451 Spreadsheet and Database Applications II</td>
<td>75</td>
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<tr>
<td>OTA 0940 Office Supervision I</td>
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<td>OTA 0948 Office Supervision II</td>
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<td><strong>Total Term Vocational Hours</strong></td>
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</tbody>
</table>

### Medical Administrative Specialist Vocational Certificate Major Code 5280

#### Program Description
The Medical Administrative Specialist Vocational Certificate Program, offered at the South Campus, is designed to prepare the student to obtain entry-level employment in a Health/Medical Office setting. The program of study concentrates on developing the interpersonal and computer skills required for success in an office work setting.

<table>
<thead>
<tr>
<th>Term I</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 0010 Office Skills Training I</td>
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<tr>
<td>OFT 0011 Office Skills Training II</td>
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<tr>
<td>OTA 0001 Office Support Tech I</td>
<td>75</td>
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<td>OTA 0002 Office Support Tech II</td>
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<table>
<thead>
<tr>
<th>Term II</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCA 0450 Spreadsheet and Database Applications I</td>
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<tr>
<td>OCA 0451 Spreadsheet and Database Applications II</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0612 Medical Secretarial I</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0613 Medical Secretarial II</td>
<td>75</td>
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<tr>
<td><strong>Total Term Vocational Hours</strong></td>
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<table>
<thead>
<tr>
<th>Term III Sess. II</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>OCA 0323 Office Supervision I</td>
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<td>OCA 0324 Office Supervision II</td>
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<table>
<thead>
<tr>
<th>Term III Sess. III</th>
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<td>OCA 0325 Office Supervision III</td>
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</table>
### Program Description
The Legal Administrative Specialist Vocational Certificate program, offered at the South Campus, is designed to prepare the student to obtain entry-level employment in a legal office as a Receptionist, Word Processor, or Data Entry Operator. The Program of Study concentrates on developing the interpersonal and computer skills required for success in an office work setting.

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>OFT 0010 Office Skills Training I</td>
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<tr>
<td>OFT 0011 Office Skills Training II</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0001 Office Support Tech I</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0002 Office Support Tech II</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total Term Vocational Hours</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCA 0450 Spreadsheet and Database Applications I</td>
<td>75</td>
</tr>
<tr>
<td>OCA 0451 Spreadsheet and Database Applications II</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0475 Legal Aspects of Business</td>
<td>75</td>
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<td><strong>Total Term Vocational Hours</strong></td>
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<table>
<thead>
<tr>
<th>First Year Term III Session II</th>
<th>Clock Hours</th>
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<tr>
<td>OTA 0312 Office Communications I</td>
<td>75</td>
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<tr>
<td>OTA 0313 Office Communications II</td>
<td>75</td>
</tr>
<tr>
<td>OTA 0476 Legal Office I</td>
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<tr>
<td>OTA 0477 Legal Office II</td>
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<tr>
<td><strong>Total Term Vocational Hours</strong></td>
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<table>
<thead>
<tr>
<th>First Year Term III Session III</th>
<th>Clock Hours</th>
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<tr>
<td>OTA 0478 Legal Office III</td>
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<tr>
<td>OTA 0323 Office Communication III</td>
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<tr>
<td><strong>Total Term Vocational Hours</strong></td>
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</tr>
<tr>
<td><strong>Total Program Vocational Hours</strong></td>
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</table>
Physical Therapist Assistant Program Associate in Science Major Code 2153

**Program Description**
The Physical Therapist Assistant Program is delivered to students at BCC and Edison College 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 at Center for Health Science Education, North Campus.

Applications should call (954) 201-2058 for admissions information. Applicants should call the associate dean at 954.201.2086 for specific program information.

**Criteria for Admission to the Physical Therapist Assistant-Associate in Science:**
- Applicants must have a minimum grade point average of 2.5.
- Applicants must complete all pre-requisite courses with a grade of "C" or higher prior to submitting a program application. See list of courses below.
- Applicants must successfully complete a continuing education course: Online Test Drive prior to the start of PHT courses in Term I, August. Completion of this course is not required for application to the program. Registration information will be provided to students following acceptance into the program.
- 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. Physical Examination information will be provided to students following application to the program.

**Requirements for the Physical Therapist Assistant Associate in Science:**
- 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:

<table>
<thead>
<tr>
<th><strong>Prerequisite Courses</strong></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>*BSC 1086 Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC 1086L Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
<tr>
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**Program: First Year Term I**
- ENC 1101 College Composition | 3  |
- PHT 1010 Physical Principles for PTA | 1  |
- PHT 1200 Introduction to Physical Therapy | 3  |
- PHT 1200L Introduction to Physical Therapy Lab | 1  |
- *PHT 1103 Anatomy for the PTA | 3  |
- *PHT 1103L Anatomy for the PTA Lab | 1  |
- *PHT 1300 Survey of Pathological Deficits | 4  |
- *PHT 1310 Survey of Musculoskeletal Deficits | 2  |
| **Total Term Semester Hours** | 18  |

**Term II**
- *PHT 1211 Disabilities and Therapeutic Procedures I | 2  |
- *PHT 1211L Disabilities and Therapeutic Procedures I Lab | 2  |
- *PHT 1350 Basic Pharmacology | 1  |
- *PHT 2224 Disabilities and Therapeutic Procedures II | 3  |
- *PHT 2224L Disabilities and Therapeutic Procedures II Lab | 2  |
- MAT 0024 Elementary Algebra and Lab | 0  |
- PSY 2012 General Psychology | 3  |

**Second Year Term I**
- *PHT 2810L Clinical Practicum I | 2  |
- PHT 1020 Therapeutic Communication for PTA | 2  |
| **Total Term Semester Hours** | 16  |

**Second Year Term II**
- *PHT 2704 Rehabilitative Procedures | 3  |
- *PHT 2704L Rehabilitative Procedures Lab | 1  |
- *PHT 2820L Clinical Practicum III | 5  |
- *PHT 2931 Transition Seminar | 2  |
| **Total Term Semester Hours** | 14  |

**Total Program Semester Hours** | 74  |

*Requires a pre- or co- requisite. See course description in BCC or Edison catalog or online. Successful completion of the Physical Therapist Assistant Program will satisfy the SACS 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.
Program Description

The advanced technical certificate (ATC), offered at North Campus, 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.

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 Health Sciences, North Campus.

Certificate Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 2203</td>
<td>Manual Techniques I</td>
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<tr>
<td>PHT 2203L</td>
<td>Clinical Practicum in Manual</td>
<td>2</td>
</tr>
<tr>
<td>Techniques I</td>
<td></td>
<td></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</td>
<td>2</td>
</tr>
<tr>
<td>Techniques II</td>
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<td></td>
</tr>
</tbody>
</table>

Total Term Semester Hours 10

Total Program Semester Hours 10

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.
RADIATION THERAPY PROGRAM Associate in Science Major Code 2159
RADIATION THERAPY SPECIALIST Technical Certificate Major Code 6228

Program Description
The Radiation Therapy Programs prepare individuals to assist the Radiation Oncologist with the management, control and care of patients receiving radiation therapy. Clinical education is performed in Broward and Palm Beach County hospitals and clinics and is offered concurrently with the didactic courses. The program maintains regional accreditation through the Southern Association of Colleges and Schools.

Radiation Therapist Specialist-Technical Certificate Track (Major Code 6228):
The Radiation Therapist Specialist Technical Certificate program prepares the Certified Radiologic Technologist (A.R.R.T.) to assist the Radiation Oncologist after one year of study. Upon completion of this 12 month full-time day program the student will be eligible to write the Radiation Therapy Exam offered by, and be certified by, the American Registry of Radiologic Technologists and to become licensed by the State of Florida. All courses are taught in Building 41, Broward Community College, North Campus, 1000 Coconut Creek Boulevard, Coconut Creek Florida.

For all admissions related questions the applicant should call 954-201-2058 or 2890. Applicants should call the program manager at (954) 201-2352 for specific program information.

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. (Effective August 2006)
• APPLICANTS MUST HAVE COMPLETED AN ACCREDITED RADIOGRAPHY PROGRAM AND BE CERTIFIED BY THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS.
• All applicants must submit transcripts documenting completion of Algebra at the Intermediate level or higher OR by successfully completing MAT 1033 Intermediate Algebra or MTB 1310 Applied Mathematics, with a grade of “C” or higher before applying to the program.

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.

Radiation Therapy Specialist Technical Certificate Major Code 6228

Pre-requisite Courses

*MAT 1033 Intermediate Algebra or
*MTB 1310 Applied Mathematics

Total Semester Hours 3

First Year Term I

*RAT 1001 Introduction to Radiation Therapy 3
*RAT 2021 Principles of Radiation Therapy I 3
*RAT 2617 Introduction to Radiation Therapy Physics I 3
*RAT 2023 Oncology 3
*RAT 2814 Clinic Education II 3
*RAT 2240 Radiation Pathology 3

Total Term Semester Hours 18

First Year Term II

*RAT 2022 Principles of Radiation Therapy II 3
*RAT 2618 Physics II 3
*RAT 2241 Radiobiology 2
*RAT 2824 Clinic Education III 3
*RAT 2657 Quality Assurance and Pharmacology 3

Total Term Semester Hours 14

First Year Term III

*RAT 2619 Dosimetry and Computer Treatment Planning 2
*RAT 2619L Dosimetry and Computer Treatment Planning Lab 1
*RAT 2834 Clinic Education IV 5

Total Term Semester Hours 8
Total Program Semester Hours 43

*Requires a pre- or co-requisite. See course description in this catalog or online.
Program Description
This Associate in Science degree program is a two-year program. APPLICANTS SHALL COMPLETE THE FIRST YEAR GENERAL EDUCATION COURSE REQUIREMENTS PRIOR TO THE ADMISSION TO THE SECOND YEAR OF THE PROGRAM. Admission to the Second Year will be limited to the availability of clinical placements. Upon completion of this degree program, the student will be eligible to write the Radiation Therapy Exam, and be certified by the American Registry of Radiologic Technologists and become licensed by the State of Florida as a Radiation Therapist. Clinical Education is performed in Palm Beach and Broward County hospitals and clinics and is offered concurrently with the didactic classes.

The program maintains regional accreditation through the Southern Association of Colleges and Schools.

For admission information, the applicant should phone 954-201-2058 or 2890. Applicants should call the program manager at (954) 201-2352 for specific program information. The program is offered on the BCC North Campus, 1000 Coconut Creek Boulevard, Coconut Creek, Florida.

Criteria for Admission to Radiation Therapy - Associate in Science Degree:
- Applicants must fulfill the general requirements for admission to Health Science Programs.
- A minimum 2.5 degree GPA. (Effective August 2006)
- Applicants must complete the Pre-Health Science Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474 and CAE 0476) after submitting the health science applicant and prior to entering the program.
- Applicants must complete the pre-requisite courses with a grade of “C” or higher prior to submitting an application. See list of courses below.

Radiation Therapy 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 Technologist 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.

Requirements for Associate in Science in Radiation Therapy Technology:
- Complete 77 hours of credit with a degree grade point average of 2.0 or higher.
- Complete the following courses with a grade of “C” or higher in all degree courses:

<table>
<thead>
<tr>
<th>Pre-requisite Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</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 1033 Intermediate Algebra or</td>
<td></td>
</tr>
<tr>
<td>*MTB 1310 Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BSC1086 Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>*BSC1086L Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

| First Year Term I                |       |
| RAT 1001 Introduction to Radiation Therapy | 3      |
| RAT 1614 Introduction to Radiation Therapy Physics | 3      |
| Elective Humanities              | 3     |
| CGS 1100 Computer Applications   | 3     |
| **Total Term Semester Hours**    | 12    |

| First Year Term II               |       |
| RAT 1111 Radiographic Process    | 2     |
| *RAT 1111L Radiographic Process Lab | 1    |
| SPC 1024 Intro to Speech Communications or | 3    |
| SPC 1600 Public Speaking         | 3     |
| Elective Social/Behavioral Science | 3      |
| *RAT 1021C Clinical Instrumentation | 2     |
| **Total Term Semester Hours**    | 11    |

| First Year Term III              |       |
| RAT 1804 Clinic Education I     | 3     |
| **Total Term Semester Hours**    | 3     |

| Second Year Term I              |       |
| RAT 2240 Radiation Pathology    | 3     |
| RAT 2021 Principles of Radiation Therapy I | 3    |
| RAT 2617 Advanced Physics I     | 3     |
| RAT 2023 Oncology              | 3     |
| RAT 2814 Clinic Education II   | 3     |
| **Total Term Semester Hours**   | 15    |

| Second Year Term II             |       |
| RAT 2022 Principles of Radiation Therapy II | 3    |
| RAT 2618 Advanced Physics II    | 3     |
| RAT 2241 Radiobiology          | 3     |
| RAT 2824 Clinic Education III  | 3     |
| RAT 2657 Quality Assurance and Pharmacology | 3    |
| **Total Term Semester Hours**   | 14    |

| Second Year Term III            |       |
| RAT 2619 Dosimetry and Computer Treatment Planning | 2    |
| RAT 2619L Dosimetry and Computer Treatment Planning Lab | 1    |
| RAT 2834 Clinic Education IV   | 5     |
| **Total Term Semester Hours**   | 8     |
| **Total Program Semester Hours**| 77    |

*Requires a pre- or co-requisite or proper score on placement test. See course description in this catalog or online.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
The Radiographer assists Radiologists and other Physicians by operating X-ray equipment and preparing patients for diagnostic X-rays. He/she takes radiographs of internal parts of the body to seek evidence of disease or injury or to provide other significant medical information. The Radiographer adjusts X-ray equipment, positions the patient and determines proper voltage, current and exposure time for each radiograph. The Radiographer may also process X-ray film, perform radiographs in surgery, and perform other tasks as assigned.

The Radiography Program maintains regional accreditation through the Southern Association of Colleges and Schools.

All radiography classes are taught in the Bldg 8 on the A. Hugh Adams Central Campus, 3501 S W Davie Road, Davie, FL Clinical practice is performed in local hospitals and is offered concurrently with the didactic classes. The clinical component includes six evening clinicals, each semester, in the second year of the program. Individuals will be eligible to write the exam of, and be certified by, the American Registry of Radiologic Technologists and become licensed by the State of Florida as a LRT (advanced) upon completion of the program. For program admission information, call 954-201-2058 or 2890. For specific program information call the associate dean at (954) 201-2080.

Radiologic Technology 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 at the ARRT Office at (651) 687-0048.

Note: All accepted applicants are guaranteed a clinical placement during the 22 months program. However, there are no guarantees that the clinical facility will be located close to the applicant’s home. It is possible that a student may have to drive at least one hour from their home to the clinical site for which they have registered. Applicants to the program may wish to consider this when applying to the program. Students rotate to three different clinical sites during the 22 months program.

Criteria for Admission to the Radiography Program Associate in Applied Science Degree
- Applicants must fulfill the requirements for admission to Health Science Programs. Students must have a minimum 2.5 degree GPA. (Effective August 2006)
- Applicants must complete Pre-Health Science Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474, and CAE 0476) after submitting the health science application prior to entering the program.
- Applicants must complete the pre-requisite courses with a grade of “C” or higher prior to submitting an application. See list of courses below.

Requirements for Associate in Applied Science Degree in Radiography
- Complete 77 semester credit hours (as listed) with a degree GPA of 2.0 or higher.
- No than a “C” in all degree courses.

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<thead>
<tr>
<th>Pre-requisite Courses</th>
<th>Total Semester Hours</th>
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<tbody>
<tr>
<td>*ENC 1101 Composition I</td>
<td>3</td>
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<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>
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<tr>
<td>*MTB 1310 Applied Mathematics or MAT 1033 Intermediate Algebra</td>
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<tr>
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<td>*RTE 1503L Radiographic Anatomy and Positioning Lab</td>
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<tr>
<td>*RTE 1000 Introduction to Radiologic Tech.</td>
<td>3</td>
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<tr>
<td>*RTE 1111 Nursing Procedures</td>
<td>2</td>
</tr>
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<td>*RTE 1804 Clinical Education I</td>
<td>2</td>
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<tr>
<td>Elective Humanities/Fine Arts</td>
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<tr>
<td>*RTE 1418 Principles of Imaging I</td>
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<td>*RTE 1613 Physics I</td>
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<td>*RTE 1814 Clinical Education II</td>
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<tr>
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<tr>
<td>*RTE 1932C Special topics</td>
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<tr>
<td>*RTE 1824 Clinical Education III</td>
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Hospital Based Radiography Associate in Applied Science Degree Major Code A026

Program Description
Broward Community College provides a means for graduates of accredited hospital based two year programs who are currently registered Radiologic Technologists, Nuclear Medicine Technologists, Radiation Therapy Technologists and Diagnostic Medical Sonographers to pursue an Associate in Applied Science degree. To qualify, the applicant must submit a copy of their A.R.R.T. or A.R.D.M.S. certificates plus a transcript from the program attended to the Experiential Learning Office. Applicants should call (954) 201-8889 for additional information.

The general education courses in this degree are offered at all BCC locations.

Criteria for Admission to the Associate in Applied Science Degree for Hospital Based Radiography Graduates
• Applicants must fulfill the Health Science Program requirements and must be certified or licensed in the specialty of study. Submit an Experiential Learning Application for previous training or experience. This form can be obtained from the Medical Imaging Associate Dean’s office located on A. Hugh Adams Central Campus, Building 8. Applicants who meet the requirements will be awarded 48 college credits.
• Attach to the Experiential Learning Application a transcript from the hospital based training program attended.
• Document satisfactorily completion of college preparatory courses if required.

Requirements for the Associate in Applied Science Degree for Hospital Based Radiography Graduates
• Completion of a minimum of 77 credits hours of credit which includes 48 semester hours of credit for previous training or experience with a degree GPA of 2.0 or higher.
• Complete the following course 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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<tbody>
<tr>
<td>HSC 1531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MBT 1310</td>
<td>Applied Mathematics or Math</td>
<td>3</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 1600</td>
<td>Public Speaking or</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro. to Speech Communication</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
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<tr>
<td>CGS 1100</td>
<td>Introduction to Computer Application</td>
<td>3</td>
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<tr>
<td>BSC 1085</td>
<td>Anatomy and Physiology I</td>
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<td>BSC 1085L</td>
<td>Anatomy and Physiology I Lab</td>
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<td>BSC 1086</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>BSC 1086L</td>
<td>Anatomy and Physiology II Lab</td>
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</table>

| Total General Education Hours | 29 |
| Experiential Learning Credits | 48 |
| Total Program Hours           | 77 |

*Requires a pre- or co-requisite. See course description in this catalog or online.
RECREATION TECHNOLOGY
Associate in Science Major Code 2191

Program Description
The Recreation Technology 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.

First Year Term

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
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<tr>
<td>LEI 1000</td>
<td>Introduction to Recreation</td>
<td>3</td>
</tr>
<tr>
<td>HSC 2400</td>
<td>First Aid</td>
<td>3</td>
</tr>
<tr>
<td>PET 1303</td>
<td>Foundations of Exercise Science</td>
<td>3</td>
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<tr>
<td>PEO 1031C</td>
<td>Individual Sports and Activities</td>
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#Elective Activity Course 1

Total Semester Hours 15

Second Year Term I

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<th>Course Title</th>
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<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or</td>
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<td>SPC 1600</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>CGS 1061C</td>
<td>Computer Concepts</td>
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<tr>
<td>MNA 2345</td>
<td>Principles of Supervision</td>
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<tr>
<td>LEI 2401</td>
<td>Recreation Management</td>
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<td>LEI 1260</td>
<td>Outdoor Recreation</td>
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Total Semester Hours 15

Second Year Term II

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<tr>
<td>SOP 2002</td>
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<tr>
<td>SYG 2000</td>
<td>Introduction to Sociology</td>
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<tr>
<td>HSC 2100</td>
<td>Personal and Community Health</td>
<td>3</td>
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<tr>
<td>HLP 1081</td>
<td>Health Fitness</td>
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<tr>
<td>PEO 1011C</td>
<td>Team Sports and Activities</td>
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<tr>
<td>LEI 1700</td>
<td>Recreation for Special Groups</td>
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<td>PEL 1041C</td>
<td>Recreation Activities</td>
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Total Semester Hours 15

First Year Term II

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<th>Course Title</th>
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<tbody>
<tr>
<td>EVR 1009</td>
<td>Environmental Science</td>
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#Elective Activity Course 1

Total Semester Hours 4

Note: Students are required to complete College Prep Math.

Second Year Term II

Humanities/Fine Arts Elective 3

HFT 2600 Hospitality Law 3

HFT 1700 Introduction to Tourism Industries Administration 3

LEI 2604 Recreation Technology and Equipment 3

HLP 2949 Co-op Work Experience 3

Total Semester Hours 15

Total Program Semester Hours 64

*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.

It is strongly recommended that students see an academic advisor or counselor every term.
Program Description
Respiratory Care is a specialty dealing with the diagnosis, treatment and rehabilitation of patients with cardiopulmonary disease. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the Committee 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.

Applicants should call (954) 201-2082 for admission information. For specific program information, applicants should call the program manager at (954) 201-2093

Criteria for Admission to the Respiratory Care-Associate in Science Degree:
Criteria for Admission to the Respiratory Care Program:

• 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 Community College and be accepted to the college.
• Applications are accepted for the Respiratory Care Program September 1st through May 5th of each year. Upon submission of your application the admissions department will notify you when they receive your application. The selection of students for the fall term occurs during the months of May and June. The application can be accessed via the BCC website or:
  http://www.broward.edu/locations/chse/PDF/forms/index.jsp
• Applicants must have a minimum grade point average of 2.5 in the prerequisite courses listed below.
• Applications will be evaluated for placement based on the following criteria:
  1. GPA in prerequisite courses or TABE standardized exam results if GPA less than 2.75
  2. Completion of a day of job shadowing – arranged by the program manager
  3. Previous completion of a college degree will be given precedence
  4. Experience in a health related field will be given precedence
• Along with the prerequisite courses listed below there are four “continuing education courses” that must be completed prior to the start of the program in August:
  CAE 0299 CPR /BLS (American Heart Association ) 8 clock hours, CAE 0382 HIV/AIDS 4 clock hours, CAE 0474 Domestic Violence 2 clock hours, CAE 0476 TB/OSHA/Hepatitis 6 clock hours
• 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 on line at http://www.broward.edu/locations/chse/PDF/forms/index.jsp
• A criminal background check and a drug screening is required by the admissions department.

Requirements for the Associate in Science Degree in Respiratory Care:
• Completion of 76 semester hours of credit and a 2.0 degree GPA.
• No grade lower that a “C” will be acceptable in any degree related course.

Pre-requisite Courses

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<tr>
<th>Course</th>
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<tr>
<td>ENC 1101</td>
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<td>BSC 1085</td>
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<tr>
<td>CHM 1032</td>
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<td>MTB 1310</td>
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<td>MAT 1034</td>
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First Year Term I

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<td>RET 1485</td>
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<td>HSC 1531</td>
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<tr>
<td>*BSC 1086</td>
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First Year Term II

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<td>*RET 1832L</td>
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<td>CVT 1200</td>
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<td>*RET 2418</td>
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**Second Year Term II**

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<td>*RET 2286</td>
<td>Management of the Intensive Care Patient</td>
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<td>*RET 2601</td>
<td>Respiratory Care Management</td>
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<td>Social/Behavioral Science</td>
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<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications <strong>or</strong></td>
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</tr>
<tr>
<td>SPC 1600</td>
<td>Public Speaking</td>
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*Requires a pre- or co-requisite or proper scores on placement test. See course description in this catalog or online.*
RESTAURANT MANAGEMENT  
Associate in Applied Science 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.

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<thead>
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<th>Second Year Term I</th>
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<td>#FOS 2201 Food Service Sanitation and Safety</td>
<td>ENC 1101 Composition I</td>
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<tr>
<td>#FSS 1221C Volume Foods</td>
<td>HFT 1210 Supervisory Development</td>
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<tr>
<td>#FSS 1240 Classical Cuisine</td>
<td>HFT 2500 Marketing</td>
</tr>
<tr>
<td>#FSS 1284 Catering</td>
<td>HFT 1941 Operations and Service Practicum</td>
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<tr>
<td>#FSS 2242 International Cuisine</td>
<td>PSY 2012 General Psychology</td>
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<tbody>
<tr>
<td>OST 2335 Communications in the Workforce</td>
<td>HFT 2942 Management and Control Practicum</td>
</tr>
<tr>
<td>HFT 2600 Hospitality Law</td>
<td>HFT 2460 Financial Management</td>
</tr>
<tr>
<td>SPC 1024 Introduction to Speech Communication</td>
<td>FSS 2500 Food Service Costing and Controls</td>
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<tr>
<td>HFT 2220 Organization and Personnel Management</td>
<td>+Elective</td>
</tr>
<tr>
<td>CGS 1100 Introduction to Computer Applications</td>
<td>MNA 1161 Introduction to Customer Service</td>
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<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td></td>
<td>13</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>Total Program Semester Hours</strong></td>
</tr>
<tr>
<td>15</td>
<td>64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Humanities/Fine Arts</td>
</tr>
<tr>
<td>*Elective Math or Science</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

#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.

+Business Ethics or any other one-credit elective

It is strongly recommended that students see an academic advisor or counselor.
### 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.

### First Year Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 1114C</td>
<td>Digital Techniques</td>
<td>5</td>
</tr>
<tr>
<td>*MTB 1325</td>
<td>Engineering Tech. Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>*EET 1015C</td>
<td>DC Circuits</td>
<td>5</td>
</tr>
</tbody>
</table>
**Total Term Semester Hours** | 14 |

### First Year Term II
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*EET 1141C</td>
<td>Linear Techniques I</td>
<td>5</td>
</tr>
<tr>
<td>*EET 1025C</td>
<td>AC Circuits</td>
<td>5</td>
</tr>
<tr>
<td>*ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>
**Total Term Semester Hours** | 13 |

### First Year Term III
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*CET 1317C</td>
<td>Technical Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>*CET 1123C</td>
<td>Microprocessors I</td>
<td>4</td>
</tr>
</tbody>
</table>
**Total Term Semester Hours** | 7 |

### Second Year Term I
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*CET 2131C</td>
<td>Microprocessors II</td>
<td>4</td>
</tr>
<tr>
<td>*EET 2355C</td>
<td>Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>*EET 2142C</td>
<td>Linear Techniques II</td>
<td>4</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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*EET 2326C</td>
<td>Electronic Communications</td>
<td>4</td>
</tr>
<tr>
<td>*EST 2224C</td>
<td>Fiber Optic Communications</td>
<td>3</td>
</tr>
<tr>
<td>*EET 2358C</td>
<td>Advanced Communication Tech.</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1024</td>
<td>Intro to Speech Communications or SPC 1600 Intro to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>
**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 in this catalog or online.

Technical courses should be taken in the sequence and term suggested unless approved by the Department Head.

These requirements apply to students who enroll in Broward Community College for the first time in academic year 2004-2005.

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 Applied Science Major Code A029
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.

Travel and Tourism Industry Management Associate in Applied Science Major Code A029

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th>Second Year Term I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>SPC 1024 Introduction to Speech Communication</td>
</tr>
<tr>
<td>HFT 1210 Supervisory Development</td>
<td>MKA 1021 Salesmanship</td>
</tr>
<tr>
<td>HFT 1700 Introduction to Tourism Industry and Administration</td>
<td>HFT 1941 Operations and Service Practicum</td>
</tr>
<tr>
<td>MTB 1103 Business Mathematics</td>
<td>HFT 2500 Marketing</td>
</tr>
<tr>
<td>GEA 2000 World Geography</td>
<td>#Elective</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td>Total Term Semester Hours</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term II</th>
<th>Second Year Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>OST 2335 Communications in the Workforce</td>
<td>CGS 1100 Introduction to Computer Applications</td>
</tr>
<tr>
<td>HFT 2220 Organization and Personnel Management</td>
<td>HFT 2730 Tour Packaging</td>
</tr>
<tr>
<td>HFT 2721 Travel Agency Management/Operations</td>
<td>HFT 2511 Convention and Group Business Marketing Management</td>
</tr>
<tr>
<td>Elective Mathematics or Science</td>
<td>HFT 2942 Management and Control Practicum</td>
</tr>
<tr>
<td>HFT 2600 Hospitality Law</td>
<td>MNA 1161 Introduction to Customer Service</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td>Total Term Semester Hours</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year Term III</th>
<th>#Business Ethics or any other one-credit elective.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Humanities/Fine Arts</td>
<td>Elective to be determined in consultation with the program advisor.</td>
</tr>
<tr>
<td>#Elective</td>
<td>It is strongly recommended that students seek an academic advisor or counselor every term.</td>
</tr>
<tr>
<td>Total Term Semester Hours</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Travel and Tourism Industry Management Associate in Science Program Major 2142

Students seeking an Associate in Science degree for the purpose of transferring into a state university shall substitute Mathematics or Science Elective requirement in the Associate in Applied Science degree with a college-level, transferable mathematics or science course and ENC 1102 Composition in place of the 3 credit elective.

*Requires a pre-requisite or proper score on placement test. See course description in this catalog or online.

#Electives to be determined in consultation with the program advisor.

It is strongly recommended that students see an academic advisor or counselor every term.
**VISION CARE TECHNOLOGY PROGRAMS**

**Ophthalmic Technology Associate in Applied Science Major Code A030**
Associate in Science Major Code 21892

**Opticianry Associate in Applied Science Major Code A031**
Associate in Science – Major Code 21891

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**Program Description**

The Associate Degree Programs in Vision Care Technology provide the student with the opportunity to develop competency in skills relative to caring for a patient's eyes. There are two tracts that a student may choose: Optician and Ophthalmic Technician. 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. An Ophthalmic Technician works with a Doctor of Ophthalmology in caring for the health of the patient's eyes. The technician is responsible for performing many different tests that enable the doctor to diagnose and treat visual and ocular medical problems. The duties include assessing acuity, binocular function, color vision, depth perception, and internal ocular pressure. Technicians also perform ophthalmic photography, visual field testing, ocular ultrasound, refractions, and other tasks as assigned.

Applicants should (954) 201-2058 for admission information. Applicants should call the Associate Dean at (954) 201-2017 for specific program information. The program is offered at Health Sciences, North.

**Criteria for Admission to the Ophthalmic Technology Program and the Opticianry Program:**

- Applicants must fulfill the requirements for admission to Health Science Programs. See page 32.
- A minimum 2.0 degree or high school GPA.
- Applicants must complete the Pre-Health Core requirements (HCP 0130, CAE 0299, CAE 0382, CAE 0474, and CAE 0476) prior to admission to the program.

**Requirements for the Associate in Applied Science in Ophthalmic Technology Major Code A030**

- Complete a minimum of 72 semester hours of credit and a degree grade point average of 2.0 or higher
- No grade lower than "C" will be acceptable in any course required for the degree.

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### Ophthalmic Technology Associate in Applied Science Major Code A030

<table>
<thead>
<tr>
<th>First Year Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT 1210 A and P of the Eye</td>
<td>3</td>
</tr>
<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>*ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*MTB 1310 Applied Mathematics or *MTB1033 Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year Term I</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*OPT 1450 Ophthalmic Dispensing Proc.</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 1450L Ophthalmic Dispensing Lab</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 2500 Contact Lens Theory</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 2500L Contact Lens Theory Lab</td>
<td>2</td>
</tr>
<tr>
<td>*OPT 2800L Vision Care Clinic</td>
<td>2</td>
</tr>
<tr>
<td>SPC 1600 Public Speaking or SPC 1024 Intro to Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### Second Year Term II

<table>
<thead>
<tr>
<th>Term III, Session II and Session III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT 2287 Ophthalmic Med. Practicum III</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
<td><strong>72</strong></td>
</tr>
</tbody>
</table>

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### First Year Term II

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>*OPT 1150 Ophthalmic Lenses</td>
</tr>
<tr>
<td>*OPT 1150L Ophthalmic Lenses Lab</td>
</tr>
<tr>
<td>*OPT 2375 Refractometry</td>
</tr>
<tr>
<td>*OPT 2879 Refractometry Practicum</td>
</tr>
<tr>
<td>*OPT 2090 Orientation to Vision Care Clinic</td>
</tr>
<tr>
<td>CGS 1100 Intro. To Computer Applications</td>
</tr>
<tr>
<td>Elective Humanities/Fine Arts</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
</tr>
</tbody>
</table>

---

**Total Program Semester Hours**

**12**

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**Total Program Semester Hours**

**72**

*Requires a pre- or co-requisite. See course description in this catalog or online.*
Requirements for the Associate in Science in Ophthalmic Technology Major Code 21892:
Students seeking an Associate in Science Degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics or MAT 1033, Intermediate Algebra requirement in the Associate in Applied Science Degree with the MAC 1105 College Algebra or higher level mathematics course or any College Level Science Course.

Requirements for the Associate in Applied Science in Opticianry Major Code A031:
- 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.

<table>
<thead>
<tr>
<th>Opticianry Associate in Applied Science Major Code A031</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year Term I</strong></td>
</tr>
<tr>
<td>OPT 1210 A and P of the Eye</td>
</tr>
<tr>
<td>OPT 1110 Physical and Geometric Optics</td>
</tr>
<tr>
<td>OPT 1110L Physical and Geometric Optics Lab</td>
</tr>
<tr>
<td>OPT 1330 Orientation to Vision Care</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
</tr>
<tr>
<td>*MTB 1310 Applied Mathematics or *MAT1033 Intermediate Algebra</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td><strong>First Year Term II</strong></td>
</tr>
<tr>
<td>*OPT 1150 Ophthalmic Lenses</td>
</tr>
<tr>
<td>*OPT 1150L Ophthalmic Lenses Lab</td>
</tr>
<tr>
<td>*OPT 2090 Orientation to Vision Care Clinic</td>
</tr>
<tr>
<td>*OPT 2375 Refractometry</td>
</tr>
<tr>
<td>OPT 2879 Refractometry Practicum</td>
</tr>
<tr>
<td>CGS 1100 Introduction to Computer Applications</td>
</tr>
<tr>
<td>Elective Humanities/Fine Arts</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td><strong>Second Year Term I</strong></td>
</tr>
<tr>
<td>*OPT 2420 Eyewear Fabrication I</td>
</tr>
<tr>
<td>*OPT 2420L Eyewear Fabrication I Lab</td>
</tr>
<tr>
<td>*OPT 2830L Contact Lens Clinic I</td>
</tr>
<tr>
<td>*OPT 2460 Ophthalmic Dispensing Clinic I</td>
</tr>
<tr>
<td>*OPT 2875 Ophthalmic Dispensing Practicum I</td>
</tr>
<tr>
<td>Elective Social/Behavioral Science</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td><strong>Second Year Term II</strong></td>
</tr>
<tr>
<td>*OPT 2421 Eyewear Fabrication II</td>
</tr>
<tr>
<td>*OPT 2421L Eyewear Fabrication II Lab</td>
</tr>
<tr>
<td>*OPT 2831L Contact Lens Clinic II</td>
</tr>
<tr>
<td>*OPT 2461 Ophthalmic Dispensing Clinic II</td>
</tr>
<tr>
<td>*OPT 2876 Ophthalmic Dispensing Practicum II</td>
</tr>
<tr>
<td>*OPT 2060 Ophthalmic Management and Practice</td>
</tr>
<tr>
<td><strong>Total Term Semester Hours</strong></td>
</tr>
<tr>
<td><strong>Total Program Semester Hours</strong></td>
</tr>
</tbody>
</table>

*Requires a pre- or co-requisite. See course description in this catalog or online.

Completion of the above listed courses qualifies the student as a candidate for the American Board of Opticians Certification Examination (ABOC), the National Contact Lens Examiners Registration Exam (NCLE).

Requirements for the Associate in Science Degree in Opticianry Major Code 21891
Students seeking an Associate in Science Degree for the purpose of transferring into a state university shall substitute MTB 1310, Applied Mathematics or MAT 1033, Intermediate Algebra requirement in the Associate in Applied Science Degree with MAC 1105 College Algebra or higher level mathematics course or any college level science course.
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. This numbering system is used by all public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

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 “course equivalency 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>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</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. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses “SYG_010” to identify its social problems 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, “SYG” means “Sociology, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and 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 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, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. 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.

**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**

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 in the 900-999 series (e.g., ART 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, Theater, and Music
D. Skills courses in Criminal Justice
E. Graduate courses
F. Courses not offered by the receiving institution
G. For courses at non-regionally accredited institutions, courses offered prior to the transfer date of the course

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Mr. B.G. Thompson, Associate Vice President for Academic Affairs, Office of Curriculum Services, Broward Community College, 225 E. Las Olas Boulevard, Fort Lauderdale, FL 33001 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 SunCom 205-0427.
<table>
<thead>
<tr>
<th>Course Index</th>
<th>Course Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Computer Science</td>
</tr>
<tr>
<td>ACG</td>
<td>CDA</td>
</tr>
<tr>
<td>TAX</td>
<td>CEN</td>
</tr>
<tr>
<td>Anthropology</td>
<td>CET</td>
</tr>
<tr>
<td>ANT</td>
<td>CGS</td>
</tr>
<tr>
<td>Architecture</td>
<td>CIS</td>
</tr>
<tr>
<td>ARC</td>
<td>COP</td>
</tr>
<tr>
<td>TAR</td>
<td>CTS</td>
</tr>
<tr>
<td>Art</td>
<td>Continuing Education for Health Related Professionals</td>
</tr>
<tr>
<td>ARH</td>
<td>HCP</td>
</tr>
<tr>
<td>ART</td>
<td>HUN</td>
</tr>
<tr>
<td>PGY</td>
<td>MLT</td>
</tr>
<tr>
<td>Astronomy</td>
<td>MTB</td>
</tr>
<tr>
<td>AST</td>
<td>NUR</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>ORH</td>
</tr>
<tr>
<td>AER</td>
<td>RTE</td>
</tr>
<tr>
<td>ARR</td>
<td>SON</td>
</tr>
<tr>
<td>DIM</td>
<td>Aviation Technology</td>
</tr>
<tr>
<td>ASC</td>
<td>AER</td>
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<tr>
<td>ATF</td>
<td>ART</td>
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<td>ASC</td>
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<td>AVM</td>
<td>BSC</td>
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ACG1003 ACCOUNTING SURVEY (3)
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

ACG2001 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: Students 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.
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 and introduces manufacturing and managerial accounting concepts and procedures. Topics covered include plant assets, accounting for equity rights, cash flow statement, financial statement analysis, cost concepts and job order costing. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in ACG2071, Managerial Accounting. A grade of less than "C" is not transferable to upper division.
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 the process cost system, cost behavior, cost-volume-profit analyses, budgeting, profit analysis, responsibility accounting, differential analysis capital investment analysis, quantitative techniques for inventory control, and decision-making under uncertainty. Advisement note: Students achieving less than a grade of "C" may experience academic difficulty in higher level courses. A grade of less than "C" is not transferable to upper division.
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 plant assets. Advisement Note: Students achieving less than a grade of "C" in ACG2100, Intermediate Accounting I, may experience academic difficulty in this course.
Prerequisite: ACG2001
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.
Prerequisite: ACG2100
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

ACG2360 COST ACCOUNTING (3) A study of the relationship of cost accounting to the control and decision-making functions of management. A review of accounting for costs precedes a detailed consideration of product costing for both job order and process cost systems. Advisement Note: Students achieving less than a grade of "C" in ACG2071 may experience academic difficulty in this course.
Prerequisite: ACG2071
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 0.00

ACG2949 CO OP WORK EXPERIENCE (3) A course designed to provide training in a students field of study through work experience. Students are graded on the basis of learning objectives and employer evaluations. Course may be repeated three times. 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 the registration approval.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

AER1010C INTRODUCTION TO AUTOMOTIVE TECHNOLOGY (4) A course designed to introduce the field of Automotive Service. Topics include auto service careers, shop safety, fuels, lubricants, fasteners, tools and equipment. An introduction to the major automobile systems and instruction in minor service procedures are provided.
Lec Hrs = 48 Lab Hrs = 48 Oth Hrs = 0 Fees = 33.75

AER1111C AUTOMOTIVE ENGINE REPAIR (4) A course designed to teach the principles and procedures necessary to completely rebuild an automotive engine and to provide the practical experience in the engine diagnosis, removal, disassembly, rebuilding, and dynamic check out. Topics include engine diagnosis; engine removal; engine disassembly; engine rebuilding; piston, pin and rod service; engine assembly; engine installation; valve adjustment; tune ups; and road test procedures. Special emphasis will be given to safety procedures and the specific tools, fasteners, and equipment to be used.
Lec Hrs = 48 Lab Hrs = 48 Oth Hrs = 0 Fees = 46.25

AER1300C ELECTRICAL SYSTEMS (4) A course designed to teach the principles and operations of the basic electrical systems found in automotive equipment and to provide practical experience in the service and repair of automobile heating and air conditioning systems, air conditioning tools and equipment, 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 = 46.25

**AER2230C MANUAL DRIVE TRAIN AND AXLES** *(4)*  
A course designed to teach the principles, operations, diagnosis and repair of manual transmissions and transaxles, drive shafts, axles, clutches and rear drive systems.  
Special emphasis will be given to safety and the specific tools and instruments to be used.
Lec Hrs = 48 Lab Hrs = 48 Oth Hrs = 0 Fees = 46.25

**AER2251C AUTOMATIC TRANSMISSIONS AND TRANSAXLE** *(4)*  
A course designed to teach the principles, operations, diagnosis and repair of automatic transmissions and transaxles.  
Special emphasis will be given to safety and the specific tools and instruments used.
Lec Hrs = 48 Lab Hrs = 48 Oth Hrs = 0 Fees = 58.75

**AER2410C BRAKE SYSTEMS AND CHASSIS REPAIR** *(4)*  
A course to teach the principles and operations of brake systems including disc systems, split systems, hydraulic cylinders, valving 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, disk brake systems, hydraulic cylinders, machining and measuring techniques, power boosters, and road tests procedures.

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 = 46.25

**AER2450C STEERING AND SUSPENSION SYSTEMS** *(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 tools and instruments to be used.
Lec Hrs = 48 Lab Hrs = 48 Oth Hrs = 0 Fees = 0.00

**AER2520C 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 = 0.00

**AER2523C 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 = 45.00

**AER2700 AUTOMOTIVE SERVICE MANAGEMENT** *(3)*  
A course designed for the study of an Automotive Service Department.  
Topics include warehousing system, inventory control systems, cost control and pricing merchandising and marketing, parts counter control, customer relations and organizational plans of service departments, work schedules, use of pricing, manuals, estimating, and pricing of work, 
analysis management cost accounting and customer relations.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AER2943 APPRENTICE EXPERIENCE** *(3)*  
On the job training at an automobile dealership.  
Each of the nine 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

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**AER2943 APPRENTICE EXPERIENCE** *(3)*  
On the job training at an automobile dealership.  
Each of the nine 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AER2945 APPRENTICE EXPERIENCE** *(3)*  
On the job training at an automobile dealership.  
Each of the nine 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AER2946 APPRENTICE EXPERIENCE** *(3)*  
On the job training at an automobile dealership.  
Each of the nine 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AER2944 APPRENTICE EXPERIENCE** *(3)*  
On the job training at an automobile dealership.  
Each of the nine 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

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**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.  
Instruction is at the University of Miami campus (PH:305-284-2870).

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.  
A leadership laboratory is included and provides cadets with leader/follower experiences.  
Instruction is at the University of Miami campus (PH:305-284-2870).

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.  
Instruction is at the University of Miami campus (PH:305-284-2870).

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 MAF 2362.  
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.  
Instruction is at the University of Miami campus (PH:305-284-2870).

Lec Hrs = 16 Lab Hrs = 16 Oth Hrs = 0 Fees = 0.00
Course Descriptions

AMH2101 HISTORY OF THE UNITED STATES (3)
A survey of American History from pre-Columbus to 1865. This course provides a general history of the political, economic, cultural, and social development of American society. Special emphasis is placed upon the Colonial period, the American Revolution, the rise of American Nationalism, the character and culture of American pre-Civil War, and the U.S. Civil War. Meets Area 3A general education requirements for the A.A. degree. Meets Area 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AMH2102 HISTORY OF THE UNITED STATES (3)
U.S. history from the post-Civil War Reconstruction period to the present. A general survey of the major forces shaping American life: development of modern industrialism; organization of laborers and farmers; immigration; the Progressive Era; World War I; the 1920’s; the Great Depression and New Deal; origins and impact of the Second World War; advent of the Cold War; post war domestic tensions; the complacent 1950’s; social/political unrest in the 1960’s; disillusionment and search for new directions since 1970. Meets Area 3A general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AMH2201 HISTORY OF THE AFRICAN AMERICAN (3)
A survey of the African American beginning in Africa and the emergence of slavery until the present time in America. Emphasis will be placed on the African Americans’ economic, political and cultural development and their contributions to our present society. Meets Areas 3A and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AMH2202 HISTORY OF THE UNITED STATES: 1945 TO THE PRESENT(3)
An examination of the major political, social, economic, cultural, military and diplomatic developments which have shaped the development of the modern American nation since 1945, including World War II, the Cold War, the McCarthy Era, the complacent fifties, the turbulent sixties, the disillusioning seventies, the conservative 1980’s, and the search for new directions since, to include events into the 21st century.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AMH2203 THE UNITED STATES: 1945 TO THE PRESENT (3)
A survey of the United States from 1945 to the present. The course is designed to provide students with an understanding of the development of the U.S. since World War II. It will include an examination of the major political, economic, social, and cultural developments, including the Vietnam War, the civil rights movement, and the economic crisis of the 1970s.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AML2100 AMERICAN LITERATURE: COLONIAL TO 1900(3)
Selected masterpieces of American literature before 1900, including works of Hawthorne, Whitman, Melville, and Crane. Meets Area 2A general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AML2200 AMERICAN LITERATURE (3)
Selected masterpieces of American literature since 1900, including works of Faulkner, Frost, and Hemingway. Meets Area 2A general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AML2600 AFRICAN-AMERICAN WRITERS (3)
Fiction, nonfiction, poetry, and drama by African-American writers such as Hammon, Wheatley, Mc Millan, Hughes, Wright, Ellison, Baldwin, Walker, and Morrison. Meets Areas 2A and 8 general education requirements for the A.A. degree. Meets Areas 2A or 5 general education requirements for the A.S. degrees. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AML2631 HISPANIC AMERICAN LITERATURE (3)
A view of the Latino/hispanic-American experience as illustrated in literature. Course will explore issues of exile, acculturation, disenfranchisement and indentity, among others. Readings shall reflect the diversity of the Latino community by including selections in various genres. Literary contributions from Mexican-American, Puerto Rican, and Cuban-American writers, among others, will be surveyed.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

AMT0001 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 = 34  Lab Hrs = 50  Oth Hrs = 0  Fees = 50.00

AMT0010 AIRCRAFT DRAWINGS (1)
This course covers aircraft drawings, care and use of blueprints, isometrics, orthographic and auxiliary projection lines and section, dimensions, limits, tolerances and allowances, 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 = 11  Lab Hrs = 15  Oth Hrs = 0  Fees = 0.00

AMT0020 WEIGHT AND BALANCE (1)
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 = 16  Lab Hrs = 23  Oth Hrs = 0  Fees = 25.00

AMT0030 FLUID LINES AND FITTINGS (1)
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 = 8  Lab Hrs = 16  Oth Hrs = 0  Fees = 30.00

AMT0040 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 and torquing methods, safety wiring, use of precision measuring equipment, shop safety, and technicians’ ethics and legal responsibilities.
Lec Hrs = 39  Lab Hrs = 41  Oth Hrs = 0  Fees = 0.00

AMT0050 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 = 19  Oth Hrs = 0  Fees = 0.00

AMT0060 CLEANING AND CORROSION CONTROL (1)
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 = 26  Oth Hrs = 0  Fees = 25.00

AMT0070 APPLIED MATHEMATICS (0)
Reviews principles of mathematical functions and studies their application to aircraft and powerplant maintenance operations.
Lec Hrs = 13  Lab Hrs = 7  Oth Hrs = 0  Fees = 0.00
AMT0081 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, and 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

AMT0090 BASIC PHYSICS (0)
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

AMT0110 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 = 25.00

AMT0115 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 = 40.00

AMT0120 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 = 0.00

AMT0130 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 = 75.00

AMT0140 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 hemi arc welding. Lab fee is required.
Lec Hrs = 15  Lab Hrs = 25  Oth Hrs = 0  Fees = 50.00

AMT0155 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 various aircraft control systems, analyzing and correcting faulty flight characteristics. Student fee charged.
Lec Hrs = 20  Lab Hrs = 45  Oth Hrs = 0  Fees = 40.00

AMT0160 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 = 25.00

AMT0200 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 = 50.00

AMT0210 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 = 50.00

AMT0220 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 = 40.00

AMT0230 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 = 40.00

AMT0240 COMMUNICATIONS AND NAVIGATION SYSTEM (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 = 40.00

AMT0250 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 = 40.00

AMT0260 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 = 50.00

AMT0270 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 = 40.00

AMT0285 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 airframe fire detecting and extinguishing systems. Student fee charged.
Lec Hrs = 10  Lab Hrs = 20  Oth Hrs = 0  Fees = 40.00

AMT0300 RECIPROCATING ENGINES (6)
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,
AMT0310 TURBINE ENGINES
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. Corequisites: AMT0300, AMT0400, AMT0420, AMT0320. Student fee charged.
Lec Hrs = 55 Lab Hrs = 55 Oth Hrs = 0 Fees = 75.00

AMT0410 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. Student fee charged.
Lec Hrs = 5 Lab Hrs = 10 Oth Hrs = 0 Fees = 25.00

AMT0420 ENGINE ELECTRICAL SYSTEMS & APU’s
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 = 24 Lab Hrs = 35 Oth Hrs = 0 Fees = 75.00

AMT0435 LUBRICATION SYSTEMS
Provides a comprehensive knowledge of the purpose and function of lubricants and lubrication system for powerplants. 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 = 30 Lab Hrs = 40 Oth Hrs = 0 Fees = 75.00

AMT0440 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. Student fee charged.
Lec Hrs = 38 Lab Hrs = 47 Oth Hrs = 0 Fees = 75.00

AMT0450 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. Student fee charged.
Lec Hrs = 10 Lab Hrs = 15 Oth Hrs = 0 Fees = 0.00

AMT0451 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 system. 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. Student fee charged.
Lec Hrs = 24 Lab Hrs = 35 Oth Hrs = 0 Fees = 75.00

AMT0460 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. Student fee charged.
Lec Hrs = 11 Lab Hrs = 14 Oth Hrs = 0 Fees = 40.00

AMT0475 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 = 13 Lab Hrs = 17 Oth Hrs = 0 Fees = 40.00

AMT0490 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 = 49 Oth Hrs = 0 Fees = 75.00

AMT1001 BASIC ELECTRICITY
Basic electricity. 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.
Lec Hrs = 34 Lab Hrs = 50 Oth Hrs = 0 Fees = 50.00

AMT1010 AIRCRAFT DRAWINGS
This course covers aircraft drawings, care and use of blueprints, isometrics, orthographic and auxiliary projection lines and sections, dimensions, limits, tolerances and allowances, geometric construction, practical layout work and identification of standard parts and materials, 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 = 11 Lab Hrs = 15 Oth Hrs = 0 Fees = 0.00

AMT1020 WEIGHT AND BALANCE
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 center gravity envelope is taught.
Lec Hrs = 16 Lab Hrs = 23 Oth Hrs = 0 Fees = 25.00

AMT1030 FLUID LINES AND FITTINGS
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, markings and routing of fluid lines.
Lec Hrs = 8 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00
AMT1040 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 and torquing methods, safety wiring, use of precision measuring equipment, shop safety, and technician's ethics and legal responsibilities.
Lec Hrs = 39 Lab Hrs = 41 Oth Hrs = 0 Fees = 25.00

AMT1050 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 = 19 Oth Hrs = 0 Fees = 50.00

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 = 25.00

AMT1070 APPLIED MATHEMATICS (1)
Reviews principles of mathematical functions and studies their application to aircraft and powerplant 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, and 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 = 9 Lab Hrs = 2 Oth Hrs = 0 Fees = 25.00

AMT1115 AIRCRAFT COVERINGS (1)
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.
Lec Hrs = 8 Lab Hrs = 4 Oth Hrs = 0 Fees = 40.00

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 number, touch up paint defects, and identify and select aircraft finishing materials. Pre or Corequisite: AMT1110
Lec Hrs = 10 Lab Hrs = 20 Oth Hrs = 0 Fees = 40.00

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 = 75.00

AMT1140 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 = 50.00

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 = 40.00

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 = 25.00

AMT1170 TEST /REVIEW/PRACTICAL (1)
Lec Hrs = 13 Lab Hrs = 25 Oth Hrs = 0 Fees = 80.00

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 = 50.00

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 hydraulics and pneumatics.
Lec Hrs = 35 Lab Hrs = 40 Oth Hrs = 0 Fees = 50.00

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 = 40.00

AMT1230 AIRCRAFT INSTRUMENTS SYSTEMS (1)
A basic familiarization of aircraft instruments and their function to include removal, installation, and the installed testing of such instruments.
Lec Hrs = 15 Lab Hrs = 10 Oth Hrs = 0 Fees = 40.00

AMT1240 COMMUNICATION 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 = 40.00
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 = 40.00

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 = 50.00

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 = 40.00

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 ice elimination are taught, providing the student 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 = 40.00

AMT2300 RECIPROCATING ENGINES (6)
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 = 58 Lab Hrs = 133 Oth Hrs = 0 Fees = 150.00

AMT2310 TURBINE ENGINES (2)
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 = 75.00

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 = 4 Lab Hrs = 11 Oth Hrs = 0 Fees = 40.00

AMT2400 ENGINE INSTRUMENT SYSTEMS (1)
Students will have a 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 = 10 Lab Hrs = 15 Oth Hrs = 0 Fees = 25.00

AMT2410 ENGINE FIRE PROTECTION SYSTEMS (1)
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 = 40.00

AMT2420 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 = 24 Lab Hrs = 35 Oth Hrs = 0 Fees = 75.00

AMT2435 LUBRICATION SYSTEMS (2)
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 = 30 Lab Hrs = 40 Oth Hrs = 0 Fees = 75.00

AMT2440 IGNITION SYSTEMS (2)
Students will have a 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 = 38 Lab Hrs = 47 Oth Hrs = 0 Fees = 75.00

AMT2450 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.
Lec Hrs = 10 Lab Hrs = 15 Oth Hrs = 0 Fees = 40.00

AMT2451 FUEL METERING SYSTEMS (2)
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 strainers are discussed and practical experience is gained in these areas.
Lec Hrs = 24 Lab Hrs = 35 Oth Hrs = 0 Fees = 75.00

AMT2460 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.
Lec Hrs = 11 Lab Hrs = 14 Oth Hrs = 0 Fees = 40.00

AMT2475 ENGINE COOLING AND 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 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 = 13 Lab Hrs = 17 Oth Hrs = 0 Fees = 40.00

AMT2490 PROPELLERS AND UNDUCTED FANS (2)
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 = 49 Oth Hrs = 0 Fees = 75.00

ANT2000 INTRODUCTION TO ANTHROPOLOGY (3)
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. Meets Area 3B and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ANT2100 INTRODUCTION TO ARCHAEOLOGY** (3) 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. Meets Area 3B general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ANT2211 INTRODUCTION TO WORLD ETHNOLOGY PEOPLE** (3) A survey of cultures on differing levels of development, focusing upon subsistence, social organization, religion, art, and culture change. Meets Areas 3B and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ANT2381 CULTURE AND SOCIETY OF SPAIN** (3) 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).

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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ANT2922 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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**APB1600 PHARMACOLOGY** (2) A course designed to introduce the Nursing student to the essential concepts and principles of pharmacology. Included are the concepts of pharmacokinetics and pharmacotherapeutics. There is an emphasis on the application of the nursing process as a practical organizational tool utilized in the care of the patient receiving pharmacological agents.

Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ARC1056C DIGITAL MEDIA** (2) Course is designed to provide a survey of current computer aided design software related 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, collaboration and information analysis of a project.

Lec Hrs = 16  Lab Hrs = 32  Oth Hrs = 0  Fees = 30.00

**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 parallel axonometric drawings and perspective drawings including one- and two-point.

Lec Hrs = 16  Lab Hrs = 48  Oth Hrs = 0  Fees = 45.00

**ARC1301 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: ARC2201, ARC1126C

Lec Hrs = 32  Lab Hrs = 64  Oth Hrs = 0  Fees = 45.00

**ARC1302 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: ARC1301, ARC2201 with a grade of “C” or higher. Corequisite: ARC1701

Lec Hrs = 32  Lab Hrs = 64  Oth Hrs = 0  Fees = 45.00

**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. Meets Area 2H general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. 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 work and philosophies of contemporary architects.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ARC2303 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: ARC1302 ARC2201

Lec Hrs = 16  Lab Hrs = 96  Oth Hrs = 0  Fees = 45.00

**ARC2304 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: ARC2303 ARC2461

Lec Hrs = 16  Lab Hrs = 96  Oth Hrs = 0  Fees = 45.00

**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. Prerequisite: ARC1301

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, strength, 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  
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00  

ARC2681 ENVIRONMENTAL TECHNOLOGY  
(3)  
The student will demonstrate a proficiency in the basic principles of comfort, safety, and efficiency theories and concepts in relationship with the environment according to accepted professional standards.  
Prerequisite: ARC2461  
Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 0  Fees = 5.00  

ARC2921 ARCHITECTURE STUDY ABROAD  
(3)  
A combination of classroom preparation plus travel to include sketching, photography, critique and review of architectural history and design. Variable content depending upon areas visited.  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00  

ARH2000 ART APPRECIATION  
(3)  
A course considering form and content in World Art, emphasizing its social and historical aspects so that students may become aware of how and why art is created as well as its contribution to culture. Meets Areas 2C and 8 general education requirement for A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00  

ARH2050 ART HISTORY I  
(3)  
Survey and analysis of architecture, painting, and sculpture as well as applied arts from Prehistory, Antiquity, Medieval, Renaissance and Baroque art periods, showing the significance of Art development resulting from social, international and cultural influences. Meets Areas 2C and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00  

ARH2051 ART HISTORY II  
(3)  
Survey and analysis of architecture, painting, and sculpture and new art forms from the 18th century to the present. Stressing the significance of Art's development resulting from international, social and cultural influences. Meets Areas 2C and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. 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 trips to museums, galleries and monuments in Seville.  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00  

ARR2290 ADVANCED AUTOBODY REPAIR  
(9)  
A course designed to teach intermediate and advanced concepts and techniques of Autobody Repair. This course includes manufacturing processes and materials, damage assessment, body measurement, advanced welding, exotic metal and plastic panel repairs, unibody and frame straightening, glass, convertible top and electrical system repair.  
Lec Hrs = 72  Lab Hrs = 144  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.  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 0.00  

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.  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 10.00  

ART1300C DRAWING I  
(3)  
Study of landscape and still life composition utilizing wet and dry drawing media.  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 0.00  

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  
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 will introduce the student to fine art and graphic art applications. A knowledge of programming is not required.  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 20.00  

ART2205C COLOR AND COMPOSITION  
(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.  
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  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 40.00  

ART2400C BEGINNING PRINTMAKING  
(3)  
A study of the processes and techniques in Intaglio and Relief printing. Instructor's approval or Prerequisite: ART1201C ART1300C  
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  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 0.00  

ART2501C PAINTING II  
(3)  
A creative exploration of oil or acrylic techniques and/or water media with an emphasis on composition.  
Prerequisite: ART2500C  
Lec Hrs = 0  Lab Hrs = 96  Oth Hrs = 0  Fees = 0.00
ART2540C WATERCOLOR  (3)
A creative exploration of watercolor techniques and media with an emphasis on composition.
Prerequisite: ART2101C ART3100C
Lec Hrs = 0      Lab Hrs = 96      Oth Hrs = 0      Fees = 0.00

ART2701C 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 permission or Prerequisite: ART2103C
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.
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: instructor's approval or Prerequisite: ART2750C
Lec Hrs = 0      Lab Hrs = 96      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. Prerequisite: Instructor permission or Prerequisite: ART2101C ART2103C ART3100C
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. Prerequisite: Instructor permission
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: ART3100C ART2330C
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. Prerequisite: instructor permission or Prerequisite: ART2103C ART2701C
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. Prerequisites: Instructor approval or Prerequisite: ART2500C ART2501C
Lec Hrs = 0      Lab Hrs = 96      Oth Hrs = 0      Fees = 0.00

ART2930C SPECIAL TOPICS: PAINTING  (3)
A painting studio course centered around topics of current interest or special interest to students. 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. Prerequisite: ART2500C ART2501C
Lec Hrs = 0      Lab Hrs = 96      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
Lec Hrs = 0      Lab Hrs = 96      Oth Hrs = 0      Fees = 35.00

ART2949 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

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.
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

ART2951 SEMINAR IN ART  (6)
A course designed for students who wish to combine the study of Art with travel in a foreign country. Variable content depending on areas visited.
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.
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.
Corequisite: ATT1100
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

ASC1210 METEOROLOGY  (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. Prerequisite: private pilot's license or instructor's permission or Prerequisite: ASC1100 ATT1100
Corequisite: ASC2210 ATT2212
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 Placement by Testing Department. 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 Placement by Testing Department 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 Placement by Testing Department or Prerequisite: ASC1100 ATT1100 Corequisite: ASC1210 ATT2120 Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**ASC2320 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 (A/C) 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, non-compliance, and management of government regulations. 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 emphasis 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

**AST1002 HORIZONS IN ASTRONOMY**

(3) This is an Open College directed self-study program consisting of five (5) on-campus meetings and supplemental videotape viewing at home. The course introduces the origin, characteristics, and evolution of the solar system, stars, and galaxies and studies the historical milestones in astronomy from the ancient astronomers to the modern space probes. Consideration is given to current and expected future trends in astronomical research and theories. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department. Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AST1003 ASTRONOMY OF THE SOLAR SYSTEM**

(3) Primarily descriptive and conceptual study of the solar system and astronomical instruments of general interest. Evening observing sessions in addition to the scheduled course hours may be required. An astronomy laboratory is recommended. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: ASC1100 ATT1100 Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AST1004 ASTRONOMY OF STARS AND GALAXIES**

(3) Primarily descriptive and conceptual study of objects and events beyond the solar system in our galaxy and in other galaxies. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: ASC1100 ATT1100 Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**AST1022L ASTRONOMY LABORATORY**

(1) A basic laboratory course to introduce students to the primary astronomical objects: the sun, moon, planets, stars and galaxies. Students will use the naked eye, telescopes and astronomical atlases to make observations of celestial objects. In addition, physical experiments will introduce principles of optics, light, and gravity utilized in astronomy. One three hour lab per week. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: AST1003 Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 12.00

**AST1037 SCIENTIFIC SEARCH FOR LIFE IN THE UNIVERSE**

(3) This interdisciplinary course examines the nature and history of life on earth, possible life-allowing 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. Placement by Testing Department or Prerequisite: MAT0024 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. Various audiovisual devices will be employed. Large portions of the course consist of directed study with the student designing and writing his own educational materials pertaining to audio visual concepts in Planetarium Education. Acquaints student with the celestial sphere and planet position. Placement by Testing Department or Instructor Approval. 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) part 141 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. Corequisite: ASC1100 ATT1100 Lec Hrs = 2 Lab Hrs = 50 Oth Hrs = 0 Fees = 25.00

**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 part 141. 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 ATF2600 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 141. 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 part 141. During this course, the student achieves qualification in complex aircraft. 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
Corequisite: ATT2110
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 to qualify the individual to take the 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
Corequisite: 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 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

ATF2660 FLIGHT SIMULATOR TURBOPROP (1)
This course provides a total of 16 hours of training in the Emil Buehler Flight Lab turbo-prop flight training device at South Campus. The course consists of 6 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: Flight Program Manager's prior approval is necessary.
Lec Hrs = 6 Lab Hrs = 10 Oth Hrs = 0 Fees = 200.00

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 airspeed, 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.
Corequisite: ASC1100
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
Corequisite: ASC1210 ASC2110
Lec Hrs = 48 Lab Hrs = 0 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 (FARs) 108, 121, 129, and 191. 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 airport 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 leases, and requirements of passenger safety and security of passenger terminals. The student is introduced to airport maintenance programs and systems as well as general aviation aviation. Requires special application and criminal background check. Prerequisite: instructor's permission or Prerequisite: AVM1440 AVM2301 AVM2410

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

AVM2301 GENERAL AVIATION MARKETING AND MANAGEMENT

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

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

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

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

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 or Prerequisite: AVM1440 AVM2301 AVM2410

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

AVM2950 AVIATION EDUCATION TRAVEL SEMINAR (1)

Through a combination of Lecture and observation, this travel seminar to the Washington, D.C. area is designed to provide aviation students with an overview of the role played by major aviation associations, congressional subcommittees and Federal agencies that shape the aviation industry. Student will also have a guided tour of aeronautical museums or facilities.

Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

AVS0090C OCP E: AVIONIC FUNDAMENTALS ITEMS

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 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)

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 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 SYSTEM

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 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

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 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

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

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BCN2253C BUILDING CONSTRUCTION DRAWING II (4)
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
Florida Building Code, formwork and shoring.

BCN1930 BUILDING CONSTRUCTION SPECIAL TOPIC (2)
An introductory course for the student presently working in the building construction industry. Subjects include the South Florida Building Code, formwork and shoring.
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

BCN2560 MECHANICAL AND ELECTRICAL SYSTEMS (3)
Prerequisite: BCN1251C
Used extensively as one of the tools for preparing drawings.
Lec Hrs = 48  Lab Hrs = 48  Oth Hrs = 0  Fees = 50.00
Presents fundamentals of air conditioning, heating, lighting, communicating and wiring for electrical equipment. Includes a study of specialty equipment such as solar heating.

BCN2614C CONSTRUCTION ESTIMATING II (3)
Prerequisite: BCT1770
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.
Lec Hrs = 16  Lab Hrs = 48  Oth Hrs = 0  Fees = 50.00

BCN2742 CONTRACTOR'S LICENSE PREPARATION (4)
A study designed to prepare for the general contractor's examination. State and Federal laws, safety codes, building codes, construction methods and technology, and practical field knowledge leading to Class, I, II or III license.
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 7.00

BCT1706 CONSTRUCTION DOCUMENTS (2)
This course 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 (2)
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

BCT1750 BUILDING CONSTRUCTION FINANCING (2)
A study of building construction financing and related contract requirements. Topics include construction loans, permanent building mortgages, construction bids and contracts, penalty and incentive provisions, progress payments and retention, escalation provisions, cost extras performance and bid bonds, company profits, cash flow and business loans.
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

BCT1767 OSHA STANDARDS (1)
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

BCT2040 MEP PLANS INTERPRETATION (2)
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 to correlate these permits 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 DRAWINGS (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 ArchiCAD, AutoCAD &/or MicroStation techniques will be used extensively for preparing drawings.
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

BCT2841L 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. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BOT2010L  
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. Dissection exercises included. One two hour period weekly. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BOT2010  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

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). Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BSC1005  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 15.00

BSC1005L GENERAL BIOLOGY LABORATORY  (1)  
Two hours of laboratory weekly which may be taken concurrently with BSC1005. For students planning to transfer where laboratory is required for science credit. Dissection exercises included. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. One two hour period weekly. Special fee charged. Placement by Testing Department.  
Pre or Corequisite: BSC1005  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

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 and function, cell reproduction, biochemistry and cell metabolism, classical and molecular genetics, and genetic engineering. Corequisite: BSC1010L  
Pre or Corequisite: CHM1040  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

BSC1010L INTRODUCTION TO BIOLOGY I LAB  (1)  
This laboratory course is the first of a two-semester sequence introducing science majors to biological principles including a study of the Five Kingdoms: Evolution and Population Dynamics, and Ecology. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BSC1010  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 35.00

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. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BSC1005  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

Prerequisite: BSC1010  BSC1010L
Corequisite: BSC1011L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

BSC1011L INTRODUCTION TO BIOLOGY II LAB  (1)  
This laboratory 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. Laboratory exercises compliment lecture topics. Dissection exercises included. 3 hours laboratory per week. Special fee charged. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: BSC1010  
Lec Hrs = 0  Lab Hrs = 48  Oth Hrs = 0  Fees = 35.00

BSC1085 HUMAN ANATOMY AND PHYSIOLOGY I  (3)  
A survey of the structure, function, and chemistry of the human body considering the following topics; 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. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. CHM1032, CHM1040, or CHM1045 is very strongly recommended (see your program requirements). Placement by Testing Department or Pre or Corequisite: BSC1085L  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

BSC1085L HUMAN ANATOMY AND PHYSIOLOGY I LAB  (1)  
Laboratory exercises coordinated with BSC1085 including microscope observation, experimentation, study of anatomical models, and dissection. Dissection exercises included. Meets Area 4C general education requirements for A.A. degree. Meets Area 4 or 5 general education requirements for the A.S. degree. 2 hrs. lab. per week. Special fee charged. CHM1032, CHM1040, or CHM1045 is strongly recommended (see your program requirements). Placement by Testing Department or Pre or Corequisite: BSC1085  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 15.00

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. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. 3 hrs. lec. wk. CHM1032, CHM1040, or CHM1045 is very strongly recommended (see your program requirements.) Placement by Testing Department or Pre or Corequisite: BSC1085  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

BSC1086L HUMAN ANATOMY AND PHYSIOLOGY II LAB  (1)  
Laboratory experiments coordinated with BSC1086, including microscope observation, study of anatomical models and dissection. Dissection exercises included. Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. CHM1032, CHM1040, or CHM1045 is very strongly recommended as a Prerequisite (see your program requirements). Special fee charged. Placement by Testing Department or Pre or Corequisite: BSC1085  
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 35.00

Prerequisite: BSC1085  BSC1085L
Corequisite: BSC1086L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 35.00

Prerequisite: BSC1011  BSC1011L
Corequisite: BSC1010  BSC1010L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Prerequisite: BSC1005  BSC1005L
Corequisite: BSC1010  BSC1010L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Prerequisite: BSC1010  BSC1010L
Corequisite: BSC1011  BSC1011L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Prerequisite: BSC1085  BSC1085L
Corequisite: BSC1086  BSC1086L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Prerequisite: BSC1085  BSC1085L
Corequisite: BSC1086  BSC1086L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Prerequisite: BSC1085  BSC1085L
Corequisite: BSC1086  BSC1086L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
BSC1810 BIOLOGY PRINCIPLES FOR TEACHERS I (3)
This course is designed for middle and high school science teachers. It covers the basic principles of biology including molecular biology, cell structure and function, and genetics. Lectures will include hands on activities and demonstrations. This is the first of a two course sequence. This course will not satisfy the general education requirements for the A.A. degree. Placement by Testing Department.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

BSC1811 BIOLOGY PRINCIPLES FOR TEACHERS II (3)
This course is designed for middle and high school science teachers. It is the second course in a two course sequence and covers the basic principles of modern biology, while focusing on the nature and activities of living organisms and their relationship to our planet. This course will not satisfy the general education requirements of the A.A. degree. Placement by Testing Department or Prerequisite: BSC1810
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

BSC1815 SURVEY OF BIOLOGY FOR ELEMENTARY TEACHERS (3)
Topics in biology which relate to the state- required minimum basic skills for K-5th grade will be explored including the definition of life, process of science, five kingdoms of organisms, animal biology, plant biology, human senses and ecology. Demonstrations and hands-on activities will be integrated into the program designed to strengthen the students’ knowledge base in biology. Course meets state certification requirements for elementary school teachers. Does not meet A.A. general education requirements. Placement by Testing Department.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

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 by Testing Department.
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.
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.
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CCJ2500 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. Instructor's approval or Prerequisite: CCJ1020
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.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CDA1302C A+ HARDWARE (3)
This course provides students with the hands-on experience and knowledge to properly install, configure, upgrade, troubleshoot, and repair microcomputers. This includes desktop and portable systems, printers, and basic networking. Students will also learn common safety and preventative maintenance procedures, as well as effective behaviors that contribute to customer satisfaction. The skills developed by students who complete this course will prepare them for the A+ Core Hardware Certification Exam. Prerequisite: CDA1403C
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 125.00

CDA1403C A+ OPERATING SYSTEMS (3)
This course provides students with an understanding of the Command Line, Windows 9X, and Windows 2000 for installing, configuring, upgrading, troubleshooting, and repairing microcomputer systems. The skills developed by students who complete this course will prepare them for the A+ Operating Systems certification exam. Students without a computer background are strongly advised to complete CGS1100 Introduction to Computer Applications before undertaking this course.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 125.00

CEM0013 MAINTAINING RESIDENTIAL TURF (3)
Course trouble shooting and solving turf grass problems in residential and small commercial properties.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 100.00

CEN1300C MICROSOFT WINDOWS PROFESSIONAL (4)
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows Professional on stand-alone and client computers that are part of a workgroup or domain. The skills developed by students completing this course will help prepare them for the Microsoft Windows Professional certification. Students who do not possess a networking background are strongly encouraged to complete CEN1509C (Network+) before attempting this course. Prerequisite: CDA1403C
Lec Hrs = 56 Lab Hrs = 8 Oth Hrs = 0 Fees = 150.00

CEN1301C IMPLEMENTING MICROSOFT WINDOWS SERVER (4)
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows Server to create file, print, Web, and Terminal servers. It also provides
students with the prerequisite knowledge and skills required for course CEN1315C. Implementing a Microsoft Windows Network Infrastructure. The skills developed by students completing this course will help prepare them for the Microsoft Server certification exam.

Prerequisite: CDA1302C CDA1403C CEN1300C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1315C IMPLEMENTING WINDOWS INFRASTRUCTURE (4)
This course is designed for support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products. It also provides students with the prerequisite knowledge and skills required for course CEN1321C, Implementing Microsoft Windows Directory Services. The skills developed by students completing this course will help prepare them for the Microsoft Network Infrastructure certification exam.

Prerequisite: CDA1302C CDA1403C CEN1300C CEN1301C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1321C IMPLEMENTING MICROSOFT WINDOWS ACTIVE DIRECTORY (4)
This course is designed to provide with the knowledge and skills necessary to install, configure and administer Microsoft's Windows Active Directory services. The courses also focus on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers. The skills developed by students completing this course will help prepare them for the Microsoft Active Directory certification exam.

Prerequisite: CDA1302C CDA1403C CEN1300C CEN1301C CEN1315C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1323C DESIGNING A SECURE MICROSOFT WINDOW NETWORK (4)
This course provides students with the knowledge and skills necessary to design a secure framework for small, medium, and enterprise network by using Microsoft's Windows technologies. The skills developed by students completing this course will help prepare them for the Microsoft Designing a Secure Windows Network certification exam.

Prerequisite: CEN1300C CEN1301C CEN1315C CEN1321C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1325C DESIGN MICROSOFT WINDOW SERVER ACTIVE DIRECTORY (4)
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory service and network infrastructure on an enterprise network. Strategies are presented to assist the student in identifying the information technology needs of an organization, and then designing an Active Directory structure and network infrastructure that meets those needs. The skills developed by students completing this course will help prepare them for the Microsoft Designing Directory Service and Network Infrastructure certification exam.

Prerequisite: CEN1300C CEN1301C CEN1315C CEN1321C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1327C PLAN MICROSOFT WINDOWS INFRASTRUCTURE (4)
This course provides students with the information and skills needed to plan and maintain a networking services infrastructure that supports the required network applications. Each unit provides a solution based on the needs of the organization. Some Microsoft Windows network solutions require a single technology, such as DHCP to provide Internet Protocol (IP) address configuration support. In other situations, several technologies options exist, such as Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP), to maintain an IP routing scheme. The skills developed by students completing this course will help prepare them for the Microsoft's Planning and Maintaining Network Infrastructure certification exam.

Prerequisite: CEN1300C CEN1301C CEN1315C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1503C NETWARE ADMINISTRATION (4)
Learn the basics of managing a NetWare network. This course teaches you how to use NetWare administrative tools to set up, manage and use basic network services, including file systems, network printing, security and e-mail. The skills developed by students completing this course will help prepare them for one or more Novell CNE Certification Exams.

Prerequisite: CDA1302C CDA1403C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1504C NETWARE ADVANCED ADMINISTRATION (4)
Learn advanced administration skills such as tuning the network and server for better performance and managing complex tree structures. This course teaches you how to oversee a complex NetWare networking environment, including Novell Directory Services (NDS) partitioning and replication, and time synchronization strategies. The skills developed by students completing this course will help prepare them for one or more Novell CNE Certification Exams.

Prerequisite: CEN1503C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CEN1509C NETWORK+ (4)
After successfully completing this course, student will understand the layers of the OSI model, be able to describe the features and functions of network components, and have the skills needed to install, configure, and troubleshoot basic networking hardware peripherals and protocols. The skills and knowledge developed by students in this course will help prepare them for the CompTIA Network+ certification exam.

Prerequisite: CEN1300C CEN1301C CEN1315C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CET1041C HOME TECHNOLOGY INTEGRATOR+ (4)
HTI+ is a vendor-neutral, cross-industry credential providing recognition that a Home Technology Integrator has attained a standard of excellence in the integrated home networks industry. It is based on a set of standards designed to measure mastery of core competencies in the installation, integration and trouble-shooting of: Home Security, AudioVideo, Computer Networks, Electrical Wiring, HVAC (Heating/Air Conditioning Systems), Cable/ Satellite, Broadband, Telecommunications and Structured Wiring. This course helps prepare students to be HTI professionals.

Prerequisite: CET1112C
Lec Hrs = 52  Lab Hrs = 12  Oth Hrs = 0  Fees = 150.00

CET1114C 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.

CET1112C 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.

Prerequisite: CET1112C
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

CET1317C 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 (Compuyet-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 MTB1325
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

CET1600C CISCO NETWORKING I (4)
This is the first in a series of four courses designed to provide students with classroom experience in the current and emerging networking technology of Cisco systems. Instruction includes, but is not limited to, network terminology and protocols, network standards, network topologies, LANs, WANs, the OSI model, IP addressing, cabling, cabling tools, routers, and router programming. Particular emphasis is given to decision-making and problem-solving techniques. The skills developed by students completing this course will help prepare them for the Cisco CCNA certification exam.
Prerequisite: CDA1302C CDA1403C
Lec Hrs = 56 Lab Hrs = 32 Oth Hrs = 0 Fees = 150.00

CET1610C CISCO NETWORKING II (4)
This is the second in a series of four courses designed to provide students with classroom experience in the current and emerging networking technology of Cisco systems. Instruction includes, but is not limited to, network terminology and protocols, network standards, network topologies, LANs, WANs, the OSI model, IP addressing, cabling, cabling tools, routers, and router programming. Particular emphasis is given to decision-making and problem-solving techniques. The skills developed by students completing this course will help prepare them for the Cisco CCNA certification exam.
Prerequisite: CET1600C
Lec Hrs = 56 Lab Hrs = 32 Oth Hrs = 0 Fees = 150.00

CET1615C CISCO NETWORKING III (4)
This is the third in a series of four courses designed to provide students with classroom experience in the current and emerging networking technology of Cisco systems. Instruction extends the student's knowledge and practical experience with switches and Local Area Network (LAN) and Virtual Local Area Network (VLAN) design, configuration, and maintenance. The skills developed by students completing this course will help prepare them for the Cisco CCNA certification exam.
Prerequisite: CET1610C
Lec Hrs = 56 Lab Hrs = 8 Oth Hrs = 0 Fees = 150.00

CET1620C CISCO NETWORKING IV (4)
This is the fourth in a series of four courses designed to provide students with classroom experience in the current and emerging networking technology of Cisco systems. Instruction introduces and extends the student's knowledge and practical experience with Wide Area Networks (WANs), Integrated Services Data Networks (ISDN), Point-to-Point Protocols (PPP) and Frame Relay design, configuration, and maintenance. The skills developed by students completing this course will help prepare them for the Cisco CCNA certification exam.
Prerequisite: CET1615C
Lec Hrs = 56 Lab Hrs = 8 Oth Hrs = 0 Fees = 150.00

CET1630C NETWORK CABLING TECHNOLOGIES (4)
Learn about standards, codes, and emerging trends of LAN cabling. Design and install a cabling system that enhances your LAN topology, maximizes your network performance, and eliminates cabling downtime. Work with the latest equipment to design, install, and troubleshoot copper and fiber optic network systems.
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 100.00

CET1850C CISCO NETWORK ACADEMY: FUNDAMENTALS OF WIRELESS LANS (4)
This Cisco Networking Academy course in wireless technology focuses on the design, planning, implementation, operation and troubleshooting of Wireless LANs. It offers a comprehensive overview of technologies, security, and design best practices, with particular emphasis on hands-on skills.
Prerequisite: CET1610C
Lec Hrs = 56 Lab Hrs = 8 Oth Hrs = 0 Fees = 150.00

CET2131C MICROPROCESSORS II (4)
Analysis of 8/16 bit microprocessors and microcomputers with emphasis on logic, timing and interfacing of the microprocessor. The student will design circuits and programs to interface memory and peripheral devices in a microprocessor based system. Extensive Laboratory practice is an integral part of this course. Students will design and develop a microprocessor project board as part of this course. This will require the student to purchase various electronic components costing approximately $125.
Prerequisite: CET1114C CET1123C
Lec Hrs = 56 Lab Hrs = 24 Oth Hrs = 0 Fees = 0.00

CET2133C COMPUTER TECHNOLOGY I (4)
This course will cover the microprocessor technology related to the Intel 8086 and family of microprocessors and microchips. The student will learn the architecture and instruction set and then use machine and assembly language programming to design and implement interfacing from a microprocessor based system to peripheral devices used in instrumentation and engineering applications.
Prerequisite: CET1123C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

CET2489C 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.
Lec Hrs = 32 Lab Hrs = 16 Oth Hrs = 0 Fees = 16.00

CET2491C NETWORK ADMINISTRATION (3)
This course is designed to teach advanced network administration. Topics will include the design and implementation of NDS, advanced netware installation and migration, advanced netware files system and security, and advanced network printing. Basic knowledge of microcomputer networking is required.
Prerequisite: CET2489C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 24.00

CET2494C ADVANCED NETWORKING (3)
This course is for support professionals who are new to networking services and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses various networking services. It also provides students with the Prerequisite knowledge and skills required for Implementing and Administering Directory Services such as Microsoft Active Directory.
Prerequisite: CET2489C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 24.00

CET2625C CISCO NETWORKING V (6)
This fifth course in the Cisco Academy curriculum offers lectures, hands-on labs, case studies, and written exercises to give you all the advanced skills needed to configure Cisco routers. Learn the complex concepts and commands necessary to configure Cisco routers for scalable operation in large and/or growing internetworks. Prerequisite: Proof of CCNA certification.
Prerequisite: CET1620C
Lec Hrs = 90 Lab Hrs = 16 Oth Hrs = 0 Fees = 150.00

CET2626C CISCO NETWORKING VI (5)
This powerful sixth course in the Cisco Academy sequence covers the fundamental and practical knowledge needed to implement Cisco Remote Access Network environments. In the hands-on labs, you will configure ISDN, BRI, and PRI traffic and verify connectivity with common network tools.
Prerequisite: CET2625C
Lec Hrs = 64 Lab Hrs = 16 Oth Hrs = 0 Fees = 150.00
CET2627C CISCO NETWORKING VII  (5)
The seventh course in the Cisco Academy sequence teaches you how to build campus networks using multilayer switching technologies over high speed Ethernet. This course addresses the integration of routing and switching technologies to create an efficient campus network. You will identify the Cisco products and software applications that service that enable connectivity and traffic transport over Fast Ethernet over VLAN, frame relay, and ATM services at each layer of the network to all users to obtain membership to multicast groups in a working multilayer switched network.
Prerequisite: CET2625C
Lec Hrs = 64  Lab Hrs = 16  Oth Hrs = 0  Fees = 150.00

CET2628C CISCO NETWORKING VIII  (6)
The final course in the CCNP program teaches you to quickly troubleshoot problems with Cisco router and Catalyst switch internetworks. Remedies communication problems in TCP/IP, IPX/SPX, AppleTalk, and Wide Area Networks. This equipment-intensive class in the most comprehensive troubleshooting course available.
Prerequisite: CET2625C CET2626C CET2627C
Lec Hrs = 80  Lab Hrs = 16  Oth Hrs = 0  Fees = 150.00

CET2660C CISCO FUNDAMENTALS OF NETWORK SECURITY  (3)
Introductory Network Security course focusing on the overall security processes with particular emphasis on hands-on skills in the following areas: Security policy design and management; Security technologies, products and solutions; Secure router design, installation, configuration, and maintenance; AAA implementation using routers; Intrusion Detection (IDS) implementation using routers; VPN implementation using routers.
Prerequisite: CET1620C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CET2667C CISCO FUNDAMENTALS OF NETWORK SECURITY  (3)
Introductory Network Security course focusing on the overall security processes with particular emphasis on hands-on skills in the following areas: Security policy design and management; Security technologies, products and solutions; Firewall and design, installation, configuration, and maintenance; AAA implementation using PIX Security Appliances; Intrusion Detection (IDS) implementation using PIX Security Appliances; VPN implementation using PIX Security Appliances.
Prerequisite: CET2660C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CGS1000 INTRODUCTION TO COMPUTER APPLICATION  (3)
This course is an introduction to computers and their applications. Students will learn to identify the basic components and devices that comprise a computer system; to use the Internet as a source of information and a means of communication; and to use application software packages (including word processing, spreadsheet, database management, and presentation graphics programs).
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 50.00

CGS1510 ELECTRONIC SPREADSHEET  (3)
This course provides hands-on applications with a spreadsheet software package. Through Lecture and Lab practices, students will develop skills that create, manipulate and utilize spreadsheets.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 24.00

CGS1540C DATABASE MANAGEMENT  (3)
This course is an introduction to database management. Using appropriate database software, students will learn to maintain and manipulate data in an organized, accessible and accurate manner. Emphasis is placed on the use of microcomputer database management software for common business applications.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 24.00

CGS1555C INTRODUCTION TO THE INTERNET  (3)
This course will provide students with an introduction to the Internet including the World-Wide Web, a world-wide network of information that resides on the Internet. The Web contains a wealth of information including text, graphics, audio, and video and a wide variety of services such as online libraries, catalogs, shopping, games and various other important resources.
Prerequisite: CGS1000 or CGS1570 or Instructor's approval.
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 24.00

CGS1557C INTERNET SITE DESIGN  (3)
This course is intended to provide technical, programming and administrative background and experience for a career with 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

CGS1577C PRESENTATION SYSTEMS  (3)
Design and develop a multimedia presentation project with linear design. Students will learn the differences between a presentation and an authoring program. The student will use the Internet and other on-line resources to research sources of multimedia and learn CD-ROM mastering as well as other platforms for delivery of multimedia. Using audience analysis, defining content outline with storyboards and creating a script, students will create a comprehensive presentation project which can be used in lecture format or as an endless loop to repeat the presentation. Projects will include text, graphics, sound, video, and animation. By creating the components in the program, importing, or scanning. Using graphic software, graphics and photos can be enhanced and manipulated for importing into the presentation program.
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

CGS1585C CASCADING STYLE SHEETS  (3)
This course will help students to understand and apply Cascading Style Sheets to separate the content from the style of web pages. Topics covered will include text styling, working with images, navigation, replacing tables with CSS, form interfaces, positioning, layout, and future techniques.
Prerequisite: CTS1823C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

CGS1852C SERVER-SIDE SCRIPTING  (3)
This course will help students to understand and utilize Server-Side Scripting technology. Students will work with Server-Side
CGS2554C E-COMMERCE WEB DEVELOPMENT
This course teaches development of E-Commerce web sites 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: COP1334C. CTS1860C
Lec Hrs = 40 Lab Hrs = 8 Oth Hrs = 0 Fees = 100.00

CGS2871C MULTIMEDIA AUTHORING II
Continuation of multimedia CGS2871C with emphasis on functions and 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: CGS2871C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 50.00

CGS2872C WEB ANIMATION
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 = 50.00

CGS2840C CIW: E-COMMERCE STRATEGIES AND PRACTICES II
This course teaches students how to conduct business online. It explores 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 CGS2843, prepares students for the CIW E-Commerce Strategies and Practices certification exam.
Prerequisite: CGS2843
Lec Hrs = 56 Lab Hrs = 8 Oth Hrs = 0 Fees = 100.00

CGS2843 CIW: E-COMMERCE STRATEGIES AND PRACTICES
This course teaches students how to conduct business online and examines the logistical 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 CGS2840C, prepares students for the CIW E-Commerce Strategies and Practices certification exam.
Prerequisite: CTS1860C
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHD1334 CHILDREN'S LITERATURE AND 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 communications skills will be investigated.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHD1338 MATH & SCIENCE FOR THE YOUNG CHILD
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 1: OBSERVATION AND EVALUATION
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 = 12.00

CHD2441 PRACTICUM II
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 ADMIN AND MGMT IN E C EDUCATION
This course will emphasize the design and operation of a childcare facility. Classroom exposure will emphasize and assess site selection, building design and supervisory software applications. Additional topics covered include integrating streaming audio and video into web pages and email, SML authoring, creating narrated screen capture tutorials, and live broadcasting. A strong emphasis is placed on both real world and distance learning applications.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 50.00
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 and organic chemistry. Topics covered include chemical measurements, stoichiometry, atomic structure, periodic table, chemical bonding, inorganic compound nomenclature and formula writing, gases, liquids, solids, solutions, acid-base chemistry, oxidation-reduction chemistry, energy, hydrocarbon nomenclature, functional groups of organic chemistry, and nuclear chemistry. Meets Area 4B general education requirements for the A.A. degree. Meets Area 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: MAT0024
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1025L INTRODUCTION TO CHEMISTRY LAB (1)
Laboratory experiments to accompany CHM1025. Special fee charged. Meets Area 4C general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: MAT0024 REA0006C
Pre or Corequisite: CHM1025
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

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. Placement by Testing Department or Prerequisite: MAT0024
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1032L CHEMISTRY FOR HEALTH SCIENCES LAB (1)
Laboratory exercises to accompany CHM1032; including Inorganic, Organic and Biochemical experiments. Placement by Testing Department or Prerequisite: MAT0024
Pre or Corequisite: CHM1032
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

CHM1040 GENERAL CHEMISTRY A (EXPANDED SEQUENCE) (3)
First course of a three semester expanded sequence CHM1040, CHM1041, CHM1046E. This sequence includes two laboratories: CHM1045L to be taken concurrently with CHM1040 and CHM1046E. This course introduces students to chemical measurement, stoichiometry, atomic structure, the periodic table, chemical bonding, inorganic formula writing and the naming of inorganic compounds and changes in energy. 3 hrs. lec/wk. Meets Area 4B general education requirements for the A.A. degree. Meets Area 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: MAT0024
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1041 GENERAL CHEMISTRY B (EXPANDED SEQUENCE) (3)
Second course of a three semester sequence, CHM1040, 1041, 1046E. This sequence includes two labs: CHM1045L to be taken concurrently with CHM1041 and CHM1046L to be taken with CHM1046E. This course further develops modern chemical concepts, including, gases, liquids, solids, solution, acid base chemistry, ionic reactions, oxidation reduction, thermodynamics and descriptive chemistry of non-metals. 3 hrs lec/wk. Meets Area 4B general education requirements for A.A. degree. Meets Area 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: CHM1040
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1045L GENERAL CHEMISTRY I LAB (1)
Laboratory experiments to accompany CHM1041 or CHM1045. Special fee charged. Meets Area 4C general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: CHM1045
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 15.00

CHM1046 GENERAL CHEMISTRY II (3)
Final course in the two semester sequence, CHM1045, and CHM1046. This sequence includes two labs: CHM1045L to be taken concurrently with CHM1045 and CHM1046E to be taken with CHM1046E. Topics covered include oxidation reduction, chemical and ionic equilibrium, kinetics, electrochemistry, coordination chemistry, thermodynamics, nuclear chemistry, an introduction to organic chemistry and highlights of descriptive chemistry of metals. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: CHM1045 CHM1046L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1046E GENERAL CHEMISTRY C (EXPANDED SEQUENCE) (3)
Final course of the three semester expanded sequence, CHM1040, CHM1041, CHM1046E. This sequence includes two laboratories: CHM1045L to be taken concurrently with CHM1041; and CHM1046L to be taken with CHM1046E. This course introduces students to oxidation reduction, chemical and ionic equilibrium, kinetics, electrochemistry, coordination chemistry, descriptive chemistry of metals, nuclear chemistry and an introduction to organic chemistry. 3 hrs. lec./wk. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: CHM1040 CHM1041 CHM1045L MAC1105
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1046L GENERAL CHEMISTRY II LAB (1)
Laboratory experiments to accompany CHM1046 or CHM1046E. Prerequisite: CHM1041 or CHM1045 and CHM1045L with a grade of "C" or higher. Corequisite: CHM1046 or CHM1046E. Special fee charged. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: CHM1045 CHM1046L
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 15.00
CHM1093 PRINCIPLES OF CHEMISTRY FOR TEACHER (3)
This course is designed for middle and high school science teachers. This course covers the basic principles of chemistry with applications of these principles to every day phenomena. Lectures will include hands on activities and demonstrations. This course will not satisfy the general education requirements for the A.A. degree. Placement by Testing Department.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM1094 PRINCIPLES OF CHEMISTRY FOR TEACHER (3)
This course is designed for middle and high school science teachers and continues the discussion of the basic principles of chemistry and the practical application of those principles that were the focus of CHM1093. This course will not satisfy the general education requirements for the A.A. degree. Placement by Testing Department or
Prerequisite: CHM1093
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 hydrocarbons and their derivatives. Reaction electronic mechanisms are interpreted and unified in the light of modern theory. Three hours weekly. Placement by Testing Department or
Prerequisite: CHM1046 CHM1046L
Pre or Corequisite: 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. Placement by Testing Department or
Prerequisite: CHM1046 CHM1046L
Pre or Corequisite: CHM2210
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 35.00

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. Three hours weekly. Placement by Testing Department or
Prerequisite: CHM2210 CHM2210L
Pre or Corequisite: CHM2211L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CHM2211L ORGANIC CHEMISTRY II LAB (1)
Appropriate experiments and preparation to compliment CHM2211. Special fee charged. Placement by Testing Department or
Prerequisite: CHM2210 CHM2210L
Pre or Corequisite: CHM2211
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 35.00

CIS2321 SYSTEMS DEVELOPMENT AND DESIGN (3)
This course surveys systems and procedures of internal control. Students learn through lectures and practical case studies how to apply equipment and programming techniques to actual business data processing applications.
Prerequisite: COP1334C
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CIS2342 DESIGNING DATA SERVICES AND DATA MODELS (3)
This course teaches students to analyze business requirements to determine data storage and data access requirements. Students will learn to build data models and design data services.
Prerequisite: COP1334C
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CIS2949 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 relating 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

CJC2000 INTRODUCTION TO CORRECTIONS (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. 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 hrs. lec.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0741 EMERGENCY PREPAREDNESS CORRECTIONS (1)
This course defines operational procedures when dealing with emergency situations. Course will include riot and disturbance control, handling unusual occurrences, hostage procedures and firefighting principals.
Lec Hrs = 26 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0752 CORRECTIONALOPERATION (2)
This course defines the daily operational procedures of the correctional facility. Course includes inmate supervision, transportation, booking procedures, patrol concepts and disciplinary procedures.
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0770 CRIMINAL JUSTICE LEGAL 1 CORRECTION (1)
This course will provide the basics of ethical behavior, the purpose of laws, components of the U.S. Constitution, legal terms related to various tasks performed on the job. The student will be introduced to the historical and philosophical background of the Criminal Justice System.
Lec Hrs = 46 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0771 CRIMINAL JUSTICE LEGAL 2 CORRECTION (0)
This course is designed to provide the basic provisions of the U.S. Constitution, comprehension of Florida Statute terms, concepts of evidence, arrest laws, civil law, elements of criminal mischief and various offenses. Lec Hrs = 22 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0773 INTERPERSONAL SKILLS 1 CORRECTIONS (2)
This course presents definition of human behavior, characteristics of juvenile offenders and human diversity interaction. Dealing with the mentally retarded, physically handicapped and substance abusers are included in theories and application techniques.
Lec Hrs = 62 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJD0781 CROSS OVER LAW ENFORCEMENT (1)
With all co-requisites, this course enables a certified correctional officer to sit for the state law enforcement certification examination. This course meets all requirements of the Florida Criminal Justice Standards and Training Commission. Corequisites: CJD0723, CJD0730, CJD0731, CJD0723, CJD0734.
Pron Corequisite: CJD0723 CJD0730 CJD0731 CJD0732 CJD0734
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
A study of skills needed by police officers to deal with citizens

CJD1763 INTERPERSONAL SKILLS IN CRIMINAL

Prerequisite for this course.
Justice Academy-track degree program is a

CJD2250 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

CJE1300 INTRO TO CRIMINAL JUSTICE ADMINISTRATION (3)
Introduction to principles of administration and managerial concepts characteristic of criminal justice organizations.

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.

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.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJK0006 INTRODUCTION AND LAW (2)
This course is part of the criminal justice standards and training commission CMS Law Enforcement Basic Recruit Certification Program. This course is designed to introduce the student to the academy, graduation requirements, and recruit expectations during their academy attendance, to enable students to understand the components of the criminal justice system and the proper use of the chain of command in an organization, to enable the student to learn constitutional law and Florida statutes, and to enable the students to understand the police code of ethics. This is a limited access course. It requires admission to the Criminal Justice Training Academy Law Enforcement Program.

Lec Hrs = 67 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJK0010 HUMAN ISSUES (1)
In this foundation course, the student will explore the human issues encountered by the law enforcement officer. The issues are categorized into human diversity, mental illness and the physically challenged.

Lec Hrs = 50 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJK0015 COMMUNICATIONS (2)
This presents topics of street gangs, the elderly, interviewing, officer survival and crisis intervention. Emphasis is on communications: sources, procedures and documentation.

Lec Hrs = 77 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJK0020 VEHICLE OPERATIONS (1)
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 = 62.00

CJK0031 FIRST AID FOR CRIMINAL JUSTICE OFFICE (1)
This course provides life-saving skills development in emergency medical situations appropriate for the law enforcement officer, including: CPR and communicable

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diseases.
Lec Hrs = 24   Lab Hrs = 16   Oth Hrs = 0   Fees = 33.00

CJK0040 FIREARMS (2)
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 = 76   Oth Hrs = 0   Fees = 392.00

CJK0050 DEFENSIVE TACTICS (2)
This course provides skills development for the officer, appropriate for the threat level, within Florida law. Demonstration of proficiency is required.
Lec Hrs = 4   Lab Hrs = 76   Oth Hrs = 0   Fees = 53.00

CJK0060 PATROL (1)
This course explores the law enforcement officer’s various activities while on patrol; the process of arrest, responding to alarms and documentation of each activity.
Lec Hrs = 57   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

CJK0070 INVESTIGATIONS (1)
This course presents the general process and procedure for conducting and investigating: responding to the scene, preliminary investigation, processing the crime scene and follow-up investigations.
Lec Hrs = 53   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

CJK0075 INVESTIGATING OFFENSES (1)
This course presents the investigative process and requirements for specific types of offenses. Included are the investigation of Domestic Violence, Child Abuse, Abuse of the Elderly, Missing/Endangered Persons, Death Cases, Fugitives and Emotionally Disturbed persons.
Lec Hrs = 40   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

CJK0080 TRAFFIC STOPS (2)
This course presents the procedures and safety issues when dealing with the vehicle and driver in common circumstances of the law enforcement officer: Unknown Risk, High Risk, D.U.I. and Unattended vehicles.
Lec Hrs = 62   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

CJK0085 TRAFFIC CRASH INVESTIGATIONS (1)
This course develops the necessary knowledge and skills for an officer to investigate a Florida traffic crash.
Lec Hrs = 32   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

CJK0090 TACTICAL APPLICATIONS (1)
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.
Lec Hrs = 54   Lab Hrs = 0   Oth Hrs = 0   Fees = 14.38

CJK0095 CRIMINAL JUSTICE SPECIAL TOPICS (0)
Criminal Justice Special Topics is a course 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 = 2   Lab Hrs = 18   Oth Hrs = 0   Fees = 14.00

CJK0211 CROSS-OVER CORRECTIONS TO LAW ENFORCEMENT (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 a 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 = 8   Lab Hrs = 0   Oth Hrs = 0   Fees = 66.00

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

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 = 24.00

CJK0441C POLICE SERVICE AIDE (3)
This course (with specified Corequisites) 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. Corequisite: CJK0442 CJK0451
Lec Hrs = 94   Lab Hrs = 16   Oth Hrs = 0   Fees = 50.00

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 = 88   Lab Hrs = 12   Oth Hrs = 0   Fees = 5.15

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 = 5.15

CJL1062 CONSTITUTIONAL LAW (3)
An examination of the U.S. Constitution, its amendments and its impact on present day criminal justice practitioners.
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
CJT2251 TEST QUSTN CONSTR & SEMANTICS/PERSONALITY (3)
The construction of test questions appropriate to the personnel aspect of the polygraph is emphasized. Course offered through Deception Control, Inc., Ft. Lauderdale.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2252 TEST QUSTN CONSTR & SEMANTICS/CRIMINAL (3)
The construction of test questions appropriate to the criminal case aspect of the polygraph is emphasized. Course offered through Deception Control, Inc., Ft. Lauderdale.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2253 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., Ft. Lauderdale.
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2254 POLYGRAPH OPERATIONS PRACTICUM (3)
Types of polygraph techniques and examinations are emphasized with emphasis on conducting examinations in role playing situations in the laboratory. Course offered through Deception Control, Inc., Ft. Lauderdale.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2362 FIRST RESPONDER (3)
This course is designed to teach the student proper first responder techniques used by law enforcement officers in emergency medical situations and also to make the student aware of important health issues, such as communicable diseases, that may impact an officer’s duties. Acceptance into the A.S. Criminal Justice-Academy track degree program is a Prerequisite for this course.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2820 PRIVATE SECURITY ADMINISTRATION (3)
An overview of security systems and their organizations, as found in retail, industrial and governmental agencies.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CJT2840 LEGAL ASPECTS OF PRIVATE SECURITY (3)
An overview of the legal aspects and proscriptions involved in retail, industrial, governmental agency and personnel security.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

CLP2001 PSYCHOLOGY OF ADJUSTMENT (3)
A basic study of personality, psychological remediation and maintenance. Focus is given to topics related to motivation, frustration, aggression, stress, conflict, affection development and personal adjustment. Recommended for students who do not intend to take PSY2012.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

COM2949 CO-OP WORK EXPERIENCE (3)
A course designed to provide training in a students 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.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

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: MAT0024
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP1120 COBOL I (3)
The COBOL programming language is taught in a structured format. Through lectures and laboratory practices, students develop programming ability in the COBOL language. Emphasis is placed on sequential file processing and the creation of different reports. Creation of disk files is also covered. Instructor's approval or
Prerequisite: CGS1000
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 24.00

COP1170 PROGRAMMING IN BASIC (3)
This course provides a study of programming utilizing the BASIC language. Emphasis is placed on the development of computer problem-solving skills and structured programming techniques in business, engineering, mathematics, science, and other related fields. Lectures and discussions are supplemented by assigned laboratory work in which microcomputers or mainframes are utilized.
Prerequisite: MAT0024
Pre or Corequisite: CGS1000
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 24.00

COP1334C INTRODUCTION TO C++ (3)
This course provides an introduction to computer program 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
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP1337C 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: COP1334C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP1341 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.
Prerequisite: COP1334C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 24.00

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 act as an OLE Server and as an OLE client. This class assumes a working knowledge of Basic Programming (COP1170).
Prerequisite: COP1334C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 24.00

COP2227C SOLUTION ARCHITECTURES (3)
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: CIS2321
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP2331C OBJECT-ORIENTED DESIGN AND PROGRAMMING (3)
This course focuses on objects as the basis for system development. Students will learn to implement object-oriented analysis and design techniques to document system requirements and design object-oriented solutions. C++ will then be used to implement those solutions.
Prerequisite: COP1337C
Lec Hrs = 40 Lab Hrs = 8 Oth Hrs = 0 Fees = 50.00

COP2700C DATABASE 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: CGS1540C COP2171C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP2701C ACCESS VBA PROGRAMMING (3)
This course 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

COP2706C BUSINESS DEVELOPMENT USING VISUAL BASICS (3)
This course will teach visual basic programmers, who currently build desktop applications and access corporate databases, the basics of how to build three-tier client/server solutions.
Prerequisite: COP2821C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP2707C CLIENT SERVER DEVELOPMENT USING DELPHI (3)
This course covers the concepts of a database engine that allows the user to create and manipulate tables for the purpose of client and server relationships. Programming and data controls are utilized.
Prerequisite: CGS1540C COP1334C COP2171C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 50.00

COP2717C DATA WAREHOUSING (3)
In this course students will study the issues involved in planning, designing, building, populating, and maintaining a successful Data Warehouse. Students learn the reason why data warehousing is a compelling decision-support solution to today’s business climate. Students also examine all phases and tasks of the Data Warehouse design process, including business modeling, entity relationship diagramming, dimensional modeling, physical modeling, and Warehouse metadata management.
Prerequisite: COP2740C
Lec Hrs = 40 Lab Hrs = 8 Oth Hrs = 0 Fees = 60.00

COP2718C DATA MINING (3)
This course will provide students with an understanding of the concepts of Data-Mining. Students will also learn how to apply specific Data-Mining techniques. Statistical methods of data analysis will be covered as well as industry applications of Data-mining tools. Topics include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models. Case studies using large data sets taken from real-life applications will also be included. Additional topics may include: problems encountered
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CST0010 CLAST MATH ONLY (0)
Prerequisite: CST0000

CST0004 CLAST RETAKE READING (0)
Pre or Corequisite: REA0991
Prerequisite: CST0000

CST0003 CLAST RETAKE ENGLISH (0)
Prerequisite: CST0000

CST0010 CLAST MATH ONLY (0)
Prerequisite: MAC1105

CST1110C LINUX + (4)
This course is designed to teach students the skills they need 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.
Prerequisite: CDA1302C CDA1403C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 125.00

CTS1112C SUN: SOLARIS SYSTEM ADMINISTRATION (4)
This course provides students with the necessary knowledge and skills to perform essential system administration tasks in the current Solaris OE, such as installing software, managing file systems, performing system boot procedures, performing user and security administration, managing network printers and system processes, and performing system backups and restores. The skills developed in this course will help prepare students for the Sun Certified System Administrator for the Solaris Operating Environment, part I exam.
Prerequisite: COP1341
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 125.00

CTS1113C SUN: SOLARIS SYSTEM ADMIN II (4)
This course provides students with the necessary knowledge and skills to perform network basics, manage virtual file systems and core dumps, manage storage volumes, control access and configure system messaging, set up naming services, and perform installation procedures. The skills developed in this course will help prepare students for the Sun Certified System Administrator for the Solaris Operating Environment, part II exam.
Prerequisite: CTS1112C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 125.00

CTS1173C RED HAT LINUX SYSTEM ADMIN I (3)
Students will learn to be effective administrators of Linux systems, mastering tasks such as hardware and device configuration, file system management, user administration, network configurations, kernel services, attaching new Linux systems to a corporate network, configuring the new systems for end-users, and troubleshooting. This is the first course in the series of two for the Red Hat Linux Core System Administration curriculum.
Prerequisite: CTS1111C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS1240C MICROSOFT SPECIALIST: ADVANCED WORD (3)
This course will provide specialized training on advanced word processing concepts and techniques. The major emphasis of this course will be the use of styles, workgroup editing, graphics, advanced table features, and macros. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Word certification exam.
Prerequisite: CGS1100
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

CTS1280C MICROSOFT SPECIALIST: ADVANCED EXCEL (3)
This course will teach students advanced skills and design concepts necessary for employing Microsoft Excel to provide solutions to complex business problems. This course covers advanced topics in spreadsheet and workbook design, complex formulas, functions, database management, and macro programming. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Excel. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Excel certification exam.
Prerequisite: CGS1100
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00
CTS1301C LINUX NETWORKING (4)
This course covers common networking services, while providing an in-depth understanding of Linux and GNU network-related packages. It covers common services such as Apache, ssh, telnet, ftp, and sendmail; and provides a detailed walk-through of network configuration using console tools such as netconfig, insmod, and route, as well as common GUI tools. This course also reviews network architectures and topologies, including the standard protocols. The skills developed by students completing this course (in combination with CEN1881C, CEN1882C, and CEN1884C) will help prepare them for the LPI Level 1 certification exams.
Prerequisite: CTS1321C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS1311C LINUX SECURITY (3)
This course covers the fundamentals of security. It examines common security problems, and provides a detailed walk-through of several security-related tools. The course also discusses the proper use of administrative privileges and privacy. The skills developed by students completing this course (in combination with CEN1881C, CEN1882C, and CEN1883C) will help prepare them for the LPI Level 1 certification exams.
Prerequisite: CTS1301C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS1321C RED HAT LINUX SYSTEM ADMIN II (4)
Students will learn to be effective administrators of Linux systems, mastering tasks such as hardware and device configuration, file system management, user administration, network configurations, kernel services, attaching new Linux systems to a corporate network, configuring the new systems for end-users, and troubleshooting. This is the second course in the series of two for the Red Hat Linux Core System Administration curriculum.
Prerequisite: CTS1173C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS1344C SUN: ADVANCED SHELL SCRIPTING (4)
This course provides students with the skills to read, write and debug UNIX shell scripts. The course begins by describing simple scripts to automate frequently executed commands and continues by describing conditional logic, user interaction, loops, menus, traps, and functions. This course is intended for system administrators who have mastered the basic Solaris Yum Operating Environment (OE) and who would like to read and understand the various boot scripts and write their own scripts to automate their day-to-day tasks. This course explores, in detail, the Bourne and Korn shell scripting languages.
Prerequisite: CTS1112C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 125.00

CTS1431C MICROSOFT SPECIALIST: ADVANCED ACC (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 programming. 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 Powerpoint certification exam.
Prerequisite: CGS1100
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

CTS1433C QUERYING MICROSOFT SQL SERVER WITH TRANSACT-SQL (3)
The goal of this course is to provide students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server.
Prerequisite: CGS1540C  CIS2342
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS1570C MICROSOFT SPECIALIST: ADVANCED POWERPOINT (3)
This course is designed to develop the advanced Microsoft Powerpoint skills to generate a variety of business presentations. Students will prepare complete presentations for screen, printer, slide presentations, and other multimedia environments. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Powerpoint certification exam.
Prerequisite: CGS1100
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

CTS1730C CIW: JAVASCRIPT FUNDAMENTALS (3)
This CIW certification 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, animate images, target frames, and create cookies. Students will also understand and use the most popular applications of JavaScript. This course, in combination with COP1806C, prepares students for the CIW Web Languages certification exams.
Prerequisite: CTS1860C
Lec Hrs = 24  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

CTS1731C CIW: PERL FUNDAMENTALS (3)
This CIW certification course teaches students how to fully utilize the Perl programming language. Students learn the Perl syntax, the basics of using regular expression, how to use Perl data types, and how to access and manipulate files. Students are also introduced to database connectivity and debugging techniques. This course, in combination with COP1802C, prepares students for the CIW Web Languages certification exams.
Prerequisite: CTS1860C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

CTS1760C MICROSOFT SPECIALIST: ADVANCED OUTLOOK (1)
This course will develop advanced skills in a powerful desktop information management (DIM) program that assists in organizing work schedules, tracking files, and communicating with others. the student will use his/her high level skills on all the Microsoft Office software suite (Word, Excel, Access, Powerpoint) to create integrated planners, various integrated application files, and multi-user information sharing through this DIM. The skills developed by students completing this course will help prepare them for the Microsoft Office Specialist Outlook certification exam.
Prerequisite: CGS1100
Lec Hrs = 12  Lab Hrs = 4  Oth Hrs = 0  Fees = 40.00

CTS1823C MACROMEDIA DREAMWEAVER (3)
This course teaches students how to use the Macromedia 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: CTS1860C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

CTS1824C ADOBE PHOTOSHOP (3)
This Adobe course teaches students how to fully utilize the latest Adobe Photoshop image editing tool. 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.
Prerequisite: CTS1860C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00
CTS1826C CIW: ADVANCED INTERNET SYSTEM MANAGEMENT (3)
This CIW certification course teaches students how to implement mission-critical services on the Windows and Linux platforms. Students install and configure Web,新闻group, e-mail and proxy servers; receive in-depth understanding of how to connect databases to Web servers; and learn how to enable CGI on Windows and Linux. Students also learn about back-up and load balancing issues, and receive foundational knowledge concerning Internet security. This course is designed for personnel responsible for implementing real-world solutions for company intranets or ISPs that provide Internet Web services. This course prepares students for the CIW Server Administrator certification exam.
Prerequisite: CEN1301C CTS1111C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 110.00

CTS1850C MACROMEDIA FLASH (3)
This course teaches students how to produce vector-based animated and interactive websites using Macromedia’s Flash toolset. 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: CTS1823C
Lec Hrs = 40  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

CTS1860C I-NET+ (4)
This course is a vendor-neutral, entry-level course that provides students with baseline technical knowledge and skills of Internet, intranet, and extranet technologies, independent of specific Internet-related career roles. Students will gain a basic knowledge and/or competency of Internet technologies in 5 core content areas: Internet Basics and Clients, Development, Networking, Internet Security, and Business Concepts. The skills developed by students completing this course will help prepare them for the CompTIA I-NET+ certification exam.
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 90.00

CTS2309C IMPLEMENT & ADMIN SEC.A MICROSOFT WIN SERV NETWORK (4)
This course is part of the Security Portfolio and will act as the primary entry point for IT Professionals at the implementation level and is for system administrators or system engineers who have the foundation implementation skills and knowledge for the deployment of secure Microsoft Windows Server based solutions. This course is not intended to provide design skills, but will cover planning skills at a level sufficient to enable decision making for the implementation process.
Prerequisite: CEN1321C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS2312C SECURITY+ (4)
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: CET2498C
Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 0  Fees = 150.00

CTS2434C PROGRAMMING A MICROSOFT SQL SERVER NETWORK (4)
This course provides students with the technical skills required to program a database solution by usingMicrosoft 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: CTS1433C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS2750C SUPPORTING MICROSOFT OFFICE (2)
This course is designed to teach students the skills they need to effectively provide technical support for Microsoft Office end users. The course covers topics such as macro viruses, file security, printing, and application configuration. Students will learn installation procedures and troubleshooting techniques, and strengthen their problem-solving skills.
Prerequisite: CTS1240C CTS1280C CTS1431C CTS1570C
Lec Hrs = 24  Lab Hrs = 8  Oth Hrs = 0  Fees = 40.00

CTS2811C ADMINISTERING A MICROSOFT SQL SERVER (4)
This course provides students with the knowledge and skills necessary 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 Administering a SQL Server certification exam.
Prerequisite: CEN1301C CTS1433C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

CTS2814C IMPLEMENTING MICROSOFT EXCHANGE SERVER (4)
This course will give students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange. The skills developed by students completing this course will help prepare them for the Microsoft Exchange certification exam.
Prerequisite: CEN1321C
Lec Hrs = 56  Lab Hrs = 8  Oth Hrs = 0  Fees = 150.00

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

CVT1501 BASIC ELECTROCARDIOGRAPHY (2)
This course will discuss a brief history of electrocardiography, the role of the technician, the care and use of the electrocardiographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and mounting the EKG.
Instructor’s approval or
Prerequisite: CAE0062 CAE0216
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 29.00

CVT2420 INVASIVE CARDIOLOGY I (3)
Introduces the student to diagnostic procedures performed in the cardiac catheterization Laboratory. Emphasis is made on left and right heart catheterization techniques and hemodynamics, operation of x-ray equipment and film processing, sterile techniques and application of resulting data for patient diagnosis.
Prerequisite: CVT2620 CVT2620L
Pre or Corequisite: CVT1200 CVT2420L CVT2842L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

CVT2420L INVASIVE CARDIOLOGY I LAB (2)
This laboratory course provides an orientation to the cardiac catheterization laboratory with practical application, including x-ray equipment and film processing, sterile technique, physiologic monitoring, intra-aortic balloon pump and emergency protocols.
Prerequisite: CVT2620 CVT2620L
Pre or Corequisite: CVT1200 CVT2420L CVT2842L
Lec Hrs = 0  Lab Hrs = 64  Oth Hrs = 0  Fees = 35.00

CVT2421 INVASIVE CARDIOLOGY II (3)
This course introduces the student to the intervention procedures performed in the cardiac catheterization laboratory, including, percutaneous transluminal coronary angioplasties, special valvuloplasties, peripheral angioplasties, post procedural care and electrophysiology studies.
cvt2620 non invasive cardiology (3)

This course provides an introduction to cardiovascular testing using vectorcardiography, electrocardiography, graded exercise testing, nuclear cardiology and basic echocardiography. Performance competency and patient safety will be emphasized. Prerequisites: Admission to the Cardiovascular Technology Program.

Pre or Corequisite: Bsc1085 Cnv1201 Mat1033
Pre or Corequisite: Cvt2620 Ret1485
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

Cvt2620l invasive cardiology ii lab (2)

This laboratory course introduces the student to the invasive procedures performed in the cardiac catheterization laboratory, including percutaneous transluminal coronary angioplasties, special valvuloplasties, peripheral angioplasties, post procedural care and electrophysiology studies.

Pre or Corequisite: Cvt1200 Cvt2420 Cvt2420l
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

Cvt2620l non invasive cardiology lab (1)

This laboratory course provides an opportunity to develop skills in non-invasive cardiovascular testing using EKG, Holter monitors, stress tests and echocardiography. Performance competency and patient safety will be emphasized. Prerequisites: Admission to the Cardiovascular Technology Program.

Pre or Corequisite: Bsc1085 Cnm1032 Mat1033
Pre or Corequisite: Cvt2620 Ret1485
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

Cvt2840l cardiopulmonary clinic i (4)

This course provides an orientation to clinic experience with diagnostic procedures in the cardiac catheterization laboratories. This includes observing, assisting with set-up for procedures and gaining practical knowledge of the administrative duties involved in the operation of the cardiac catheterization laboratory. Prerequisite: Admission to the Cardiovascular Technology Program.

Pre or Corequisite: Cvt2421 Cvt2421l
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 400 Fees = 50.45

Cvt2841l cardiopulmonary clinic ii (4)

This course provides clinical experience with all aspects of diagnostic and interventional procedures in cardiac catheterization laboratories. Emphasis is on observation and assistance of PTCA's with special intervention devices such as TEC, DCA and stents. Upon completion of this course students will be proficient in all aspects of the invasive cardiac catheterization laboratory.

Pre or Corequisite: Cvt2840l
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 400 Fees = 25.45

Cvt2842l cardiopulmonary clinic iii (4)

This course provides clinical experience with various aspects of non-invasive cardiology, including electrocardiography, Holter monitoring, stress testing, nuclear medicine, cardiac rehabilitation, and echocardiography in affiliated hospitals.

Pre or Corequisite: Cvt2620 Cvt2620l
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 256 Fees = 25.45

Cvt2920 cardiovascular pathophysiology (3)

This course provides an overview of the pathogenesis and pathophysiology of the major cardiac diseases.

Pre or Corequisite: Cvt2421 Cvt2421l
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DAA1104 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.

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1105 MODERN DANCE II (2)

A continuation of DAA1104. Further development of modern dance techniques with an emphasis on vocabulary, alignment, movement phrasing, and rhythm. Participation in semester dance concert required. Coeducational. Permission of instructor or prerequisite: DAA1104

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1204 BALLET I (2)

An academic study of techniques and theoretical concepts of ballet for the performance-oriented student. Includes warm-up, barre, and centre combinations. Coeducational.

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1205 BALLET II (2)

Continuation of DAA1204. Ballet exercises and step combinations for the intermediate performance student, building on basic skills and culminating in a live performance. Coeducational. Participation in semester dance concert required. Prerequisites: Instructor permission or prerequisite: DAA1204

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1504 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.

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1505 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.

Prerequisite: DAA1504
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 2.00

DAA1520 BASIC TAP (2)

Course will include beginning level tap steps including basic barre, centre floor exercises, step combinations and choreography. Coeducational. Students must furnish their own tap shoes.

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA1680 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 BCC dance technique class.

Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

DAA2106 MODERN DANCE III (2)

A continuation of DAA1105 with an emphasis on advanced movement phrases and combinations necessary to perform modern dance repertory. 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: DAA1105

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

DAA2206 BALLET III (2)

Continuation of DAA1205. Emphasis on developing strength and coordination in more complex phrasing and movement. This course will explore and develop an understanding of the vocabulary, technique, and theoretical concepts of ballet on an
Course Descriptions

DEA0000 INTRODUCTION TO DENTISTRY (1)
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 hrs. Lec. Term I. Instructor approval or Corequisite: DEA0025
Lec Hrs = 30 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEA0025 PRE CLINICAL (2)
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 DES0100 DES0840
Lec Hrs = 60 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEA0025L PRECLINICAL LABORATORY (4)
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 DES0100 DES0840
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 120 Fees = 50.00

DEA0130 ALLIED DENTAL THEORY (1)
Designed to acquaint the student with basic body structures, functions and diseases which affect dental treatment. Basic concepts of microbiology and their relevance to sterilization. General aspects of oral pathology, including common pathological conditions of the mouth, teeth, and their supporting structures will be covered. Additional consideration will be given to the pharmacological properties, therapeutic applications and any toxicities or contraindications of drugs and medicaments commonly used in dentistry. Essential material on the symptoms, treatment, and equipment required to render adequate care for the common office emergencies will be included. 4 hrs Lec. Term II. Instructor's approval or Pre or Corequisite: DEA0025 DES0200
Pre or Corequisite: CORE001 DES0313
Lec Hrs = 30 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEA0150 DENTAL PSYCHOLOGY (1)
This course will offer material on the basic theories of psychology which enable the dental assistant to possess a greater understanding of why people act as they do. Included in the course are practical techniques for effective patient management and basic guidelines for establishing a better interpersonal relationship between the dental assistant, dental staff and the dental patient. 1 hr. Lec. Term II. Instructor approval or Pre or Corequisite: DEA0000 DEA0025 DES0840
Pre or Corequisite: DES0801
Lec Hrs = 30 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH1003 PRECLINICAL DENTAL HYGIENE I (2)
A course designed to provide knowledge in the application of dental hygiene procedures with a detailed study of instrumentation. The course includes data collection, mastery of beginning techniques in dental patient care, and emergency procedures.
Pre or Corequisite: DEH1003L DEH2400
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 70.95

DEH1003L PRECLINICAL DENTAL HYGIENE I LAB (3)
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, mastery of beginning techniques in dental patient care, and emergency procedures.
Pre or Corequisite: DEH1003 DEH2400
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 70.95

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 DES1051
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 DES2050
Pre or Corequisite: DEH1802 DEH1802L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH1600 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: DEH1600L DES2050
Pre or Corequisite: DEH1800L
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH1800L DENTAL HYGIENE I CLINIC (2)
This course will provide clinical experience in comprehensive patient care. Emphasis is placed on treatment planning and dental hygiene assessment techniques.
Prerequisite: DEH1003 DEH1003L DEH2400
Pre or Corequisite: DEH1800 DEH1800L
Lec Hrs = 0 Lab Hrs = 104 Oth Hrs = 96 Fees = 70.95

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 DES2050
Pre or Corequisite: DEH1802
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH1802L DENTAL HYGIENE II CLINIC (3)
The laboratory portion of this course requires hands on experience with specified numbers of patients and procedures. An emphasis on the development of basic patient care and education techniques is included.
Prerequisite: DEH1800 DEH1800L DES2050
Pre or Corequisite: DEH1802
Lec Hrs = 0 Lab Hrs = 192 Oth Hrs = 0 Fees = 70.95

DEA2940 DENTAL PRACTICUM (3)
Designed to provide an opportunity for continued practice in dental assisting procedures while the student is completing the general college courses necessary to meet the requirements of an Associate in Science Degree. Arranged hrs. Term II.

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DEH2400 GENERAL AND ORAL PATHOLOGY (2) This course provides principles of general and oral pathology as it relates to diseases of the oral cavity. There will be emphasis on the importance of the dental hygienist's recognition of normal and abnormal conditions. Pre or Corequisite: DEH1003 DEH1003L Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH2701 COMMUNITY DENTAL HEALTH (2) This course will teach the student the concepts of community dental health. Topics covered include the measurement of dental disease, prevention programs, community outreach programs, and simple statistical analysis. Prequisite: DEH1130 DES1051 Pre or Corequisite: DEH2701L DEH2804L Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEH2701L COMMUNITY DENTAL HEALTH LAB (1) This course is the follow through for DEH2701. The student will apply community health principles by designing and presenting dental health education principles to various community audiences. Prerequisite: DEH1130 DES1051 Pre or Corequisite: DEH2701 DEH2804L DEH2806 DEH2806L Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 50.00

DEH2804L DENTAL HYGIENE III CLINIC (4) The laboratory portion of this course provides advanced application of the principles of preventive hygiene and oral prophylaxis techniques on patients in the clinic under supervision. Prerequisite: DEH2806 DEH2806L Pre or Corequisite: DEH2804 Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 192 Fees = 70.95

DEH2806 DENTAL HYGIENE IV (2) This course provides continuation of theoretical material related to clinic dental hygiene practice. It includes discussion on case information community dental health, ethics and jurisprudence and Florida Statutes 466 Rule 21G. 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 = 70.95

DEH2944L ADVANCED DENTAL HYGIENE CLINIC (1) This course is designed for students who have successfully graduated from Broward Community College's Dental Hygiene Program to maintain and/or update clinical skills prior to taking the Florida Stateboard Clinical Examination. Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 76 Fees = 20.95

DEP2002 DEVELOPMENTAL PSY I: CHILD PSYCHOLOGY (3) Study of the concepts and principles of growth and development in infancy and childhood. Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP2004 DEVELOPMENTAL PSYCHOLOGY (3) This is a general life span developmental psychology offering that considers human growth from conception to death. It is designed to give a general overview of the developmental processes. Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP2302 DEVELOPMENTAL PSYCH II: ADOLESCENT (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 Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP2481 THE PSYCHOLOGY OF DYING (3) An examination of the historical and present perspectives of death and dying in an intensive assessment of the psychological and cultural factors that serve as the etiological basis of this phenomena. Topics include grief, euthanasia, eschatology, the dying person, the Hospice systems bereavement, and widowhood. Prerequisite: PSY2012 Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP0021 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 DES0200 DES0830 Lec Hrs = 45 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP0100 DENTAL MATERIALS (1) Designed to familiarize the student with the various types of materials, their physical properties and characteristics, proper manipulation and designed application in the practice of dentistry. 2 hrs. lec. Term I Instructors approval or Corequisite: DES0100L Lec Hrs = 35 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP0100L 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 3 hrs lab Term I. Corequisite: DES0100 Lec Hrs = 0 Lab Hrs = 45 Oth Hrs = 0 Fees = 50.00

DEP0200 DENTAL RADIOGRAPHY (1) Fundamentals of radiological science as applied to dentistry will be presented. Special consideration will be given to radiation physics, hazards, biological effects, protection, and control methods. Also proper techniques for exposing, processing and mounting of radiographs are included. 2 hrs. lec. Term I. Instructor's approval or Corequisite: DES0200L Lec Hrs = 40 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

DEP0200L DENTAL RADIOGRAPHY LAB (2) Laboratory portion of DES0200. Proper techniques for exposing, processing, and mounting radiographs. Laboratory exercises demonstrating proficiency in these techniques will be required. 4 hrs. lab. Term I. Instructor approval or Corequisite: DES0200 Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 60 Fees = 70.95

DEP0400 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

DEP0502 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. Computer proficiency must be demonstrated by the student for course completion. 2 hrs. Lec. Term II. Instructor approval or

Pre or Corequisite: DEA0025 DEA0025L

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

Pre or Corequisite: DEA0025 DEA0025L

Lec Hrs = 30  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

DES0801L CLINICAL PROCEDURES I LAB (5)

Practice 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

Pre or Corequisite: DEA0025 DEA0025L

Corequisite: DES0801

Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 165  Fees = 70.95

DES0802 CLINICAL PROCEDURES II (1)

Practice 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.

Pre or Corequisite: DEA0025 DEA0025L DES0801 DES0801L

Corequisite: DES0802L

Lec Hrs = 30  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

DES0802L CLINICAL PROCEDURES II LABORATORY (4)

Practice 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.

Pre or Corequisite: DEA0025 DEA0025L DES0801 DES0801L

Corequisite: DES0802

Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 135  Fees = 18.95

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. 3 hrs. Lec. Instructor's 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. Special fee charged. 3 hrs. lab. Term II Instructors approval or

Pre or Corequisite: DEA0025 DEA0025L DES0830

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: DES0801 DES0801L DES0831

Lec Hrs = 0  Lab Hrs = 60  Oth Hrs = 0  Fees = 50.00

DES0840 PREVENTIVE DENTISTRY (1)

Emphasis is placed on the development of a plaque control program to meet individual patient needs. Materials on methods of toothbrushing, 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

DES1051 PAIN CONTROL AND DENTAL ANESTHESIA (1)

This course provides a study of agents used in dentistry for local anesthesia and pain control.

Pre or Corequisite: DEH1003 DEH1003L DEH1800 DEH1800L DEH2400 DES2050

Pre or Corequisite: DEH1130 DEH1802 DEH1802L

Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

DES2050 DENTAL PHARMACOLOGY (2)

This course provides an understanding of the drugs commonly encountered in the dental office. The student will gain knowledge in the origin, physical and chemical properties, modes of administration and effects upon the body system.

Pre or Corequisite: DEH1003 DEH1003L DEH2400

Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

DIM1001 DIESEL ENGINE FUNDAMENTALS (3)

A course designed to teach the principles, operations, and maintenance of automotive and light truck diesel engines, electrical systems, emission control systems, lubrication and exhaust systems.

Pre or Corequisite: DEH1800 DEH1800L

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

DIM1010 ADVANCED DIESEL ENGINE AND REPAIR (6)

A course designed to teach the principles, operations, maintenance diagnosis, and repair of medium and heavy vehicle diesel engines. Topics include diagnosis, and repair of cylinder head and valve train, engine block, lubrication, system, cooling system, air induction and exhaust systems, fuel system and engine brakes.

Pre or Corequisite: DIM1001

Lec Hrs = 48  Lab Hrs = 96  Oth Hrs = 0  Fees = 0.00

DSC1011 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.

Pre or Corequisite: DIS1001

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EAP0100C LISTENING/SPEAKING I (3)

A beginning level speaking and listening course. Students develop the ability to understand frequently used words in oral contexts and understand and respond appropriately to simple phrases and questions. PREREQUISITE: Through placement testing and/or department recommendation.

Pre or Corequisite: EAP0100C

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.

Pre or Corequisite: EAP0120C

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 testing and/or department recommendation.
Lec Hrs = 96   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: Through placement and/or department recommendation.
Prerequisite: EAP0185C
Lec Hrs = 96   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 rewording 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 (4)
This is a level 300, low intermediate 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 and/or referral. Students must earn at least a C to pass the course and proceed to EAP0420C.
Prerequisite: EAP0220C
Lec Hrs = 48   Lab Hrs = 13   Oth Hrs = 0   Fees = 20.00

EAP0385C READING IV (3)
This is a level 400 high intermediate ESL reading course designed for students in English for Academic Purposes (EAP) programs. It emphasizes vocabulary and comprehension on an intermediate level. Placement in EAP0420C is determined by successful completion of EAP0320C (a grade of C or higher) or assessment tests and/or referral. Students must earn at least a C or higher to proceed to EAP0420C. Special fee charged.
Prerequisite: EAP0300C
Lec Hrs = 48   Lab Hrs = 13   Oth Hrs = 0   Fees = 20.00

EAP0485C GRAMMAR/WRITING IV (6)
This course is a continuation of EAP0385C. An intermediate course for speakers of other languages designed principally to guide the students to the mastery of complex grammar and sentence structures, and basic paragraph writing. The requirement to move to the next level (EAP1540C) is a C or higher. With a D or an F, a student must repeat EAP0485C.
Prerequisite: EAP0385C
Lec Hrs = 96   Lab Hrs = 13   Oth Hrs = 0   Fees = 20.00

EAP1540C ADVANCED COMPOSITION I (3)
A composition course in English for speakers of other languages. Designed principally to guide the student to the mastery of paragraph structure using various paragraph modes and the multi-paragraph essay. The grammar focuses on elements which closely tie in with composition, e.g. connectors and sentence combining. With a D or an F, a student must repeat EAP1540C. Special fee charged.
Prerequisite: EAP0400C EAP0420C EAP0485C
Lec Hrs = 48   Lab Hrs = 13   Oth Hrs = 0   Fees = 20.00

ECO2013 PRINCIPLES OF ECONOMICS I (3)
An introductory course in macroeconomic principles covering basic economic problems and concepts. Topics discussed and analyzed include the role of government in various economic systems, aggregate measures of economic performance, aspects of economic instability, macroequilibrium, fiscal and monetary policies, and the impact of the public debt. Meets Area 3B general education requirements for the A.A. degree. Meets Area 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

ECO2023 PRINCIPLES OF ECONOMICS II (3)
Continuation of ECO2013 stressing microeconomic theories. Topic studied include the theory and application of supply and demand elasticity. Theory of consumer demand, utility, and indifference curve analysis; the law of diminishing returns in production and the firm's profit-maximizing behaviors under
market models ranging from pure competition to pure monopoly; production theory and the theory of income distribution; comparative advantage, trade policies, exchange rates, balance of payments, and other international economic issues.
Prerequisite: ECO2013
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

ECO2220 MONEY AND BANKING (3)
A general survey of the economics of money and banking covering the nature and functions of money; monetary standards; structure and functions of the Federal Reserve System; monetary policy, monetary theory and the price level; interrelation of monetary and fiscal policy, recent monetary problems, and international finance.
Prerequisite: ECO2013
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

ECS2001 COMPARATIVE ECONOMICS SYSTEMS (3)
This course surveys and analyzes the economic systems of Marxist-Leninist, Social Democrat, Third World Socialist, Mixed and pure Capitalistic models. The course considers individual decision-making structures, the functioning of these economies as a whole, and current topics affecting these systems.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

ECS2390 THE ECONOMY OF SPAIN (3)
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. Meets Area 8 A.A. degree general education requirements.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EDF1005 INTRODUCTION TO EDUCATION (3)
This course satisfies one of the lower level Prerequisite requirements for education majors. Its focus is teacher preparation for the 21st century by emphasizing social problems, student diversity, legal issues and curriculum themes. It provides an overview of the American education system and an introduction to the teaching profession. The field experience component of 16 hours in a local school, gives students opportunities to understand more about teaching. Students must obtain School Board of Broward County security clearance (cost-$60) and must be available for the term preferably from 8:00-2 pm on a weekday for field experience. Limited access section for TEA program instruction will require 60 hours of early field experience.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EET1015C DC CIRCUITS (5)
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EDF2010 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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EDF2021 TEA: PROF SEM: SRVY OF HUM DEVELP P (3)
This course is part of a series of four professional seminars for students enrolled in TEA seeking an A.A. degree from BCC. It emphasizes basic concepts and perspectives regarding the impact of human growth and development theory on the teacher, students, education, and society as a whole.
Prerequisite: EDF1005 EDF1034C SYG1931C
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EED2070 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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EDG2701 TEACHING DIVERSE POPULATIONS (3)
This course satisfies one of the lower level Prerequisite requirements for education majors. Upon successful completion of this course, the students should be able to demonstrate an understanding of the basic concepts, perspectives and impact of current social and multicultural diversity issues on the teacher, student, and educational system as a whole. Students should also understand and appreciate the local, State and National implications of these issues. 16 hrs. of field experience in a local school is a requirement of this course. Students must have a current (within 2 years) School Board of Broward County security clearance (cost $60) and must have 3 hours free 1 day per week between 8:00-2pm for field experience. Limited access sections for TEA program instruction will require 60 hrs of early field experience. Prerequisites: Instructor approval or
Prerequisite: EDF1005
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 0.00

EDG2949 CO OP WORK EXPERIENCE (3)
A course designed to provide training in a students 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.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EFC1200 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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EFC1603 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 DC CIRCUITS (5)
This is a first course in electric circuits. Upon completion of this course the student shall demonstrate an understanding of the definitions and interrelationships of voltage, current and power in circuits containing passive circuit elements and multiple sources. Extensive laboratory experience is included. Pre or Corequisite: MTB1325
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 a 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. Prerequisite: EET1015C MTB1325
Lec Hrs = 64 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00
EET1141C LINEAR TECHNIQUES I (5)
Semiconductor principles, rectifier diodes, zener diodes, BJT amplifiers, negative feedback amplifiers. Field effect transistors and FET amplifiers. Extensive laboratory experience. Prerequisite: EET1015C
Lec Hrs = 64 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

EET2037C CIRCUIT ANALYSIS (4)
Analysis of multisource networks, both AC and DC, the application of various network reduction theorems, frequency response analysis, high pass, low pass and frequency selective filters, oscillator circuits, computer aided analysis of active and passive circuits. Extensive laboratory experience. Prerequisite: EET1025C EET1141C
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 0.00

EET2142C LINEAR TECHNIQUES II (4)
Power amplifiers, field effect transistors and amplifiers, thermal effects in semiconductors, thyristors, rectifier power supplies, voltage and current regulation, operational amplifier applications, differential amplifiers, and special devices. Extensive laboratory experience. Prerequisite: EET1141C
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: EET1141C
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 include UART and MODEM implementation.
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 0.00

EET2356C ADVANCED COMMUNICATION TECHNOLOGY (3)
This is an advanced course in telecommunication technology, with topics covering analog and digital communication, switching systems, Digital
Pre or Corequisite: EET2142C EET2355C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

EGS1001 INTRODUCTION TO ENGINEERING (3)
This course is a basic introduction to engineering. It will explore the various engineering fields, engineering problem solving, and basic math and physics used by engineers. Other topics such as safety, ethics, and engineering communications will also be addressed.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EGS1110C ENGINEERING GRAPHICS (3)
Graphics as a means of communication for engineers. This is accomplished through sketching, use of instruments, computers (AutoCAD) and knowledge of orthographic projection. Areas of proficiency include drawing to scale, plan reading, construction of auxiliary and sectional views, construction of pictorials, knowledge of accepted practices, and an introduction to computer graphics.
Prerequisite: MAT1033
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EGS2310 STATICS (3)
Forces on particles; equilibrium of a particle; moments of a force; couples; equilibrium of rigid bodies; centroids and centers of gravity; analysis of trusses, shear and moment
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EGS2350 EXPERIMENTAL METHODS (3)
This course is designed to implement practical and theoretical concepts covered in the Department of Transportation's Emergency Medical Technician (EMT) Certification Examination. Admission to this course requires satisfactory completion of Corequisites EMS1119, EMS1411, and EMS1421. Laboratory work includes the use of computer programs and laboratory equipment to simulate the skills and knowledge required for EMT certification.
Lec Hrs = 96 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EMT1411 EMERGENCY MEDICAL TECHNICIAN BASIC (6)
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, EMS1411, and EMS1421 provide eligibility to take 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

EMT1412 EMERGENCY MEDICAL TECHNICIAN SKILLS(1)
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 rescuer 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. Admission to this course requires successful completion of Corequisites EMS1119, EMS1411, and EMS1421. Laboratory work includes the use of computer programs and laboratory equipment to simulate the skills and knowledge required for EMT certification. This course also includes clinical experience in a 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 1411 and 1421 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 = 50.45

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 = 50.45

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

EMS2311 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'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 = 20.00

EMS2395 TOPICS IN EMERGENCY MEDICAL SERVICE (1)
This course is designed as a seminar in emergency medical care topics for the graduate paramedic and others interested in the delivery of prehospital emergency medical services seminar. Topics will review the U.S. Department of Transportation five divisions paramedic curriculum and cover current developments, updates and changes in the EMS field. Course content may be submitted to the State of Florida EMS Office as continuing education credit hours for paramedic and EMT Recertification. 10 hrs. lec./on demand.
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EMS2513 CRISIS INTERVENTION (3)
Deals with the emotional responses of persons in emergency situations, as well as, the emergency care of the mentally ill person. Includes the legal aspects of caring for the emotionally ill person. 48 hr. lec. Term II Prerequisite: Certification courses on demand.
Pre or Corequisite: PSY2012
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

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 B.
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 = 50.00

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.
Prerequisite: EMS2010 EMS2631 EMS2631L EMS2650
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

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 = 75.00

EMS2633 PARAMEDIC SCIENCE II - CARDIO-RESPI (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 prehospital 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
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

EMS2634L PARAMEDIC SCIENCE III - TRAUMA LAB. (1)
Skills lab dealing with topics of trauma care, medical emergencies, and special care considerations related to obestics, 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 = 75.00

EMS2635 PARAMEDIC SCIENCE III - MEDICAL EME (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 = 75.00

EMS2641 PARAMEDIC SCIENCE - HOSPITAL CLINIC (2)
First of three hospital courses stressing 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 = 50.45

EMS2643 PARAMEDIC SCIENCE - HOSPITAL CLINIC (2)
Last hospital courses involving patient care in a 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. Required. Health and Liability insurance required.
Prerequisite: EMS2634 EMS2634L EMS2635 EMS2642
EMS2652
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 72 Fees = 50.45

EMS2650 PARAMEDIC SCIENCE I FIELD (1)
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 = 50.45

EMS2651 PARAMEDIC SCIENCE II FIELD (3)
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 examination 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 = 50.45

EMS2652 PARAMEDIC SCIENCE III FIELD (3)
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 = 50.45

EMS2653 PARAMEDIC SCIENCE IV FIELD INTERNSH (4)
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
EMS2650
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 96 Fees = 50.45

EMS2850 PARAMEDIC CURRICULUM BRIDGE (4)
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 interpretation, 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 well being 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 homeless, 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.

ENC0085 INTEGRATED GRAMMAR & WRITING SKILLS  (8)
An integrated grammar and writing skills course for students wishing to complete both two-track college preparatory courses in one semester. Course provides an overview of grammar, mechanics, usage, sentence structure, and paragraph 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 complete the 16-hour lab requirement to receive credit for ENC0010.
Pre or Corequisite: ENC0085L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ENC0010 COLLEGE PREPARATORY WRITING SKILLS  (4)
An overview of the fundamentals of grammar, mechanics, usage, sentence structure, and paragraph 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 complete the 16-hour lab requirement to receive credit for ENC0010.
Corequisite: ENC0010L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ENC0010L COLLEGE PREPARATORY WRITING SKILLS  (0)
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 and must complete the 16-hour lab requirement to receive credit in ENC0010.
Pre or Corequisite: ENC0010
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 25.00

ENC0021 COLLEGE PREPARATORY WRITING SKILLS  (4)
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 complete the 16-hour lab requirement to receive credit for ENC0021.
Corequisite: ENC0021L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ENC0021L COLLEGE PREPARATORY WRITING SKILLS  (0)
A laboratory component that will supplement classroom instruction in ENC0021. 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 16-hour lab requirement to receive credit in ENC0021.
Pre or Corequisite: ENC0021
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 25.00

ENC1101 COMPOSITION I  (3)
A university parallel course in which the student writes expository themes in various modes. Research methods and literate skills are introduced and a documented paper is required. Placement in ENC1101 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. Students who receive an "F" must enroll in ENC0010. Students who earn a "D" may enroll in ENC0021.
Lec Hrs = 48  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

ENC1102 COMPOSITION II  (3)
A composition course stressing structural and analytical writing, including narration and argumentation. Selected readings in prose, drama, and poetry supplement the course and provide topics for discussion and written assignments. Students use a variety of research and investigative techniques to produce a documented paper. Students must earn a minimum grade of "C" to meet the requirements of the Gordon Rule. Students must pass either ENC1102 or ENC2210 to fulfill Area 1B general education requirements for the A.A. degree.
Prequisite: 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.
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.
Lec Hrs = 8  Lab Hrs = 8  Oth Hrs = 0  Fees = 0.00

ENG2101 THE FILM AS LITERATURE  (3)
An examination of the elements of film contrasted to those of literature. The elements of film, visual and otherwise, are presented with representative examples from genre and general films. The course provides an opportunity for viewing significant films and sharing in the evaluation. Meets Area 2A general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. or A.A.S. degree. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ENL2012 BRITISH LITERATURE  (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. Meets Areas 2A and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. and A.A.S. degree. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
ENL2022 BRITISH LITERATURE (3)
A study of man's relationship to the natural environment, the increasing sense of social responsibility, the liberated woman, the continuing intellectual revolution, and the origins of current social and economic problems in British literature of the nineteenth and twentieth centuries. Includes such writers as the romantic poets and Tennyson, Browning, Hardy, Yeats, Shaw, Eliot, and Thomas. Critical analysis required. Meets Areas 2A and 8 general education requirements for the A.A. degree. Meets Area 2 or 5 general education requirements for the A.S. degree. Prerequisite: Eligibility for ENC1101
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 10.00

ENL2330 INTRODUCTION TO SHAKESPEARE (3)
A study of the background and texts of Shakespeare's sonnets and plays. Shakespeare's life and the period of time in which he lived, and the structure and content of various Shakespearean plays. Meets Area 2A general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.A.S./A.S. degree. Prerequisite: Eligibility for ENC1101
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. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Terms I, II, and III. Placement by Testing Department.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

ESC1000L EARTH SCIENCE LABORATORY (1)
Laboratory Methods for Earth Science. Meets area 4C general education requirements for the A.A. Degree. Meets the 4 or 5 general education requirements for the A.S. Degree. One, two-hour laboratory weekly. Special fee is charged. Placement by Testing Department or Pre or Corequisite: ESC1000
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 20.00

ESC1002 EARTH SCIENCE FOR TEACHERS (3)
Study of the earth sciences at an introductory level with emphasis on topics taught in primary and secondary schools. Earth sciences of the local region as well as their important influence on life and man's activities are discussed. This course is designed specifically for teachers. This course will not satisfy the general education requirements for the A.A. degree. Placement by Testing Department or 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

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 weeks internship, 24 hours per week at a cooperating 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.
Prerequisite: CET1123C EET2142C HSC1531
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 20.95

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.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

ETC2450 STRUCTURAL DESIGN (3)
Simplified design of reinforced concrete structures including beams, columns, footings, retaining walls and pile foundations. Classification of soils and interpretation of borings from the standard penetration test.
Prerequisite: ETC2450 or equivalent.
Lec Hrs = 48 Lab Hrs = 0 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

ETD2331C AUTOLISP PROGRAMMING (3)
This course will teach students to use AutoCAD's embedded programming language, AutoLISP. Emphasis will be placed on production of small time saving programs to enhance AutoCAD's drafting capabilities. Students will learn proper programming and debugging techniques.
Prerequisite: ETD1320 ETD2350C
Lec Hrs = 16 Lab Hrs = 48 Oth Hrs = 0 Fees = 0.00

ETD2350C ADVANCED CAD (3)
Additional topics in AutoCAD. These include blocks, move and copy, array, mirror, text, text styles, 3D 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

ETG2530 STRENGTH OF MATERIALS (2)
A study of statics and strength of materials without the use of advanced mathematics. Introduction to solving problems using an electronic calculator. Should be taken concurrently with ETG2530L.
Prerequisites: MTB1321, MTB1322, PHY1001 or instructor approval.
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
ETG2530L STRENGTH OF MATERIALS LAB (1)
Laboratory sessions emphasize typical solution of problems applied to structural engineering with the help of computers. This course should be taken concurrently with ETG2530.
Prerequisites: MTB1321, MTB1322, PHY1001 or instructor's approval.
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 0.00

EUH1000 WESTERN CIVILIZATION (3)
A historical survey of Western culture from its roots in the ancient Near East to the beginning of the modern period in the 17th century. The approach is that of social history which examines the socio-economic, intellectual, political and cultural forces which have shaped Western civilization. May also be taken for honors credit. Meets Areas 3A and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EUH1001 WESTERN CIVILIZATION (3)
This course surveys the major political, social, economic, cultural and international developments that shaped Western Civilization from the early 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. May also be taken for honors credit.
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. Meets Areas 3A or 6 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. 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. Special attention will be paid to the impact of important historical events such as the Enlightenment, the Napoleonic Wars, the fall of absolute monarchy, the several military uprisings during the nineteenth and twentieth centuries, and industrialization on Spanish society. The last part of the course will analyze the Spanish Civil War, the Franco Regime, and the present constitutional monarchy.
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. Meets Area 4A or 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: MAT0024.
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

EVR1858L ENVIRONMENTAL REGULATIONS II LAB (1)
This course will provide environmental technologists in the hazardous materials area with an actual or simulated experience in applying the regulations and compliance methods specific to their area. Topic to be covered will include OSHA, DOT, RCRA, CERCLA, TSCA, FIFRA, EPA, superfund, and clean air, land and water issues. Placement by Testing Department or Prerequisite: EVR1858.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EVR1868L ENVIRONMENTAL REGULATIONS II LAB (1)
This course will provide environmental technologists in the hazardous materials area with an actual or simulated experience in applying the regulations and compliance methods specific to their area. Topic to be covered will include OSHA, DOT, RCRA, CERCLA, TSCA, FIFRA, EPA, superfund, and clean air, land and other issues. Special fee charged. Placement by Testing Department or Prerequisite: EVR1858.
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

EVR2805 HAZARDOUS MATERIALS TOXICOLOGY (3)
This course will provide hazardous materials technicians with an understanding of potential health effects which may result from exposure to various hazardous materials. Topics to be covered will include biological interactions with toxic substances, metabolism of toxic substances, genetic toxicology, systemic toxicology, toxic agents, environmental toxicology, radiation health effects and common chemical hazards. Placement by Testing Department or Prerequisite: BSC1005 CHM1025.
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

EVR2849 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. Placement by Testing Department.
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EVS1671 HAZARDOUS MATERIALS RECOVERY AND DISPOSAL (3)
This course is designed to explain the methods of recovery, incineration and/or disposal of hazardous waste. Topics include contracting with qualified disposal organizations, obtaining permits and ensuring regulatory compliance of hazardous waste. Field trips required.
Prerequisite: CHM1025 EVR1858.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

EVS1802 INDUSTRIAL WASTE STREAMS (4)
This course will familiarize the student with common categories of industrial process facilities. Using the techniques developed in this course, the student will become familiar with a variety of industrial processes. The student should gain an appreciation for how to reduce the hazardous material waste stream. Field trips required. Instructor permission or Prerequisite: CHM1025 CHM1025L.
Lec Hrs = 64  Lab Hrs = 8  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
EVS2893C 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

FFP1000 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. 48 hours independent study. Any student who satisfactorily completed the state standard certification requirements will automatically be awarded 3 semester hours in lieu of introduction to fire science.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

FFP1120 FIRE PROTECTION THROUGH BUILDING CODE
(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

FFP1505 FIRE PREVENTION THEORY AND APPLICATION
(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

FFP1510 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

FFP1540 FIRE PROTECTION AND DETECTION SYSTEM
(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

FFP1780 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

FFP1810 FIREFIGHTING TACTICS AND 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

FFP2111 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,
FIN1100 PERSONAL FINANCE (3)
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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FIN2050 FINANCE OF INTERNATIONAL TRADE (3)
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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FOS2201 FOOD SERVICE SANITATION & SAFETY (3)
This course provides the student with the basic concepts of food microbiology and food borne diseases. Standards enforced by food regulatory agencies will be identified. All information will lead to the application of measures to prevent food borne illness. This course includes a comprehensive exam leading to national certification.
Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 0  Fees = 15.00

FREE100 ELEMENTARY FRENCH CONVERSATION (3)
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. Meets Area 8 general education requirement for the A.A. degree. Special fee charged.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FREE1120 BEGINNING FRENCH I (4)
Fundamentals of speaking, understanding, reading and writing. Classroom practice and exercises supplemented by language laboratory sessions designed to develop confidence and proficiency. Student expected to continue with FRE1121. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

FREE1121 BEGINNING FRENCH II (4)
Continuation of FREE1120. Further development of the basic skills. Selected readings. Meets Area 8 general education requirements for the A.A. degree.
Prerequisite: FREE1120
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FRE1170 FRENCH STUDY TRAVEL (3)
A course designed for students who wish to combine the study of French with subsequent travel to a French speaking region. Prerequisite: FRE1120 or FRE1000 or instructor's approval. Meets Area 8 general education requirements for the A.A. degree.
Prerequisite: FREE1120
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FRE2201 INTERMEDIATE FRENCH I (4)
Emphasis on composition, comprehension and conversation. Interesting tour through French history, geography and literature. Aim of course to give student a necessary background in the culture of France and to achieve fluency in oral and written expression. This course completes intermediate year. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meet Areas 2 or 5 general education requirements for the A.A. degree.
Prerequisite: FREE2220
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

FRE2220 INTERMEDIATE FRENCH I (4)
Review of most salient grammatical principles plus introduction of grammatical and idiomatic material. Composition and
readings in new French prose. Conversation at an easy and enjoyable pace. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.

Prerequisite: FRE1121

Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

**FSS2121C VOLUME FOODS**

(3)

Upon successful completion of this course, students should be able to demonstrate ability in preparing a full dinner and lunch menu, setting a dining room, and exhibiting proper clean-up and sanitation procedures. In addition, the students determine food costs and set prices for a given food cost.

Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

**FSS1240 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

**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.

Lec Hrs = 48 Lab Hrs = 0 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, entree, dinner companionment, and flambe 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

**FSS2500 FOOD SERVICE COSTING AND CONTROLS**

(3)

This course provides a cost managing approach to the study of food and labor controls. Students examine the relationship of food and labor costs to selling price; cost control procedures for recipes and menus; precost and precontrol 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

**GEA2000 WORLD GEOGRAPHY**

(3)

The study of geographical characteristics, area relationships, and major problems of the world’s component regions. The underlying theme is to explain how and why geographic factors create global contrasts. Special emphasis will be placed on how the world has become more interdependent as complex economic systems have evolved with regional specialization. Meets Areas 3A and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. 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.

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 and 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.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GBE1011 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.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GBE2112 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.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GBE2430 BUSINESS ETHICS**

(1)

A brief practical approach to recognizing, understanding and solving ethical problems confronting today’s business people and organizations. Review the historical development of ethics, examine a variety of ethical dilemmas, and practice resolving them through ethical reasoning. Address reference to statutory and professional codes. Stress logical, responsible decision-making; address individual, organizational and societal needs. 1 hour weekly; or 5-week sessions, 3 hours weekly, 1 hour elective.

Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GBE2949 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.

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GBE2955 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.

Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**GEO1000 INTRODUCTION TO GEOGRAPHY**

(3)

This course is a study of the relationship between humans and their environment. Analysis will specifically target the earth’s physical systems including land forms and climates and human impact on the world’s natural resources involving a study of cultures, populations, urban land use and conservation.
Continuation of GER1120. Further development of the basic skills. Selected readings.Meets Area 8 general education requirements for the A.A. degree. Special fee charged. 
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

GER1121 BEGINNING GERMAN II (4)
Continuation of GER1120. Further development of the basic skills. Selected readings.Meets Area 8 general education requirements for the A.A. degree. Special fee charged. 
Prerequisite: GER1120 
Lec Hrs = 48 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 a German speaking region. Meets Area 8 general education requirements for the A.A. degree. 
Prerequisite: GER1120 
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

GER2201 INTERMEDIATE GERMAN II (3)
Emphasis on composition and comprehension and conversation. Interesting tour through German history, geography and literature. Aim of course to give student a necessary background in the culture of Germany and to achieve fluency in oral and written expression. This course completes intermediate year. Prerequisite: GER2220 or equivalent. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meetings 2 or 5 general education requirements for the A.S. degree. 
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

GIS1042C INTRODUCTION TO GEOGRAPHIC INFO (3)
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. 
Prerequisite: Knowledge of Windows operating system. 
Lec Hrs = 48 Lab Hrs = 32 Oth Hrs = 0 Fees = 16.00

GLY1010 PHYSICAL GEOLOGY (3)
Study of geologic agents, minerals, rocks, structure, and land forms. 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 GLY1010L. Some senior institutions require a 4 credit geology course. Three hours weekly. Meets Area 4B general education requirements for the A.A. degree. Meets Area 2 or 5 general education requirements for the A.S. degree. Placement by Testing Department. 
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. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. One two hour laboratory weekly. Special fee is charged. Placement by Testing Department.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 7.00

GLY1100 HISTORICAL GEOLOGY (3)
An earth systems 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 mass extinction on the history of life, and the role of plate tectonics on the geologic and biologic evolution of earth. Field trips are optional. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

GLY1100L HISTORICAL GEOLOGY LAB (1)
One two-hour session per week. Experimental topics include fossils, paleogeography, rock correlation, and interpretation of geologic maps as related to the lectures. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or
Prerequisite: GLY1100
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 5.00

GRA1120C PUBLICATION DESIGN (3)
This course introduces the student to principles 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, newsletters, catalogs, newspapers, books, or annual reports. Topics covered include the basic principles of effective typography; 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 = 0.00

GRA1131C APPLIED GRAPHIC DESIGN FOR MULTIMEDIA (3)
This course will give the student an introduction to graphic design for computer screens. Students will use digital image editing software to create effective computer screen design elements. Color theory and visual communication is introduced emphasizing color as it relates to non-print display, calibration, pixel properties, light mixing, additive vs. subtractive color theory. Digital image editing activities include selecting and creating shapes, and using painting techniques.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 50.00

GRA1151C DIGITAL ILLUSTRATION (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 = 65.00

GRA1201C DIGITAL TYPOGRAPHY (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: GRA1151C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 65.00

GRA1721C WEB PROGRAMMING (3)
The student will learn the basics of creating a web site and will progress through the processes of analysis, design, development and implementation of complete web sites using HTML language with the text editors and WYSIWYG web editors. This course includes: introduction to the WWW; Web Programming with HTML, layout and structure of web sites, hyperlinks, multimedia, forms, frames, testing, maintenance and uploading web sites to servers.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

GRA2134C ADVANCED MULTIMEDIA ANIMATION (3)
Continuation of Multimedia Animation to create advanced two-dimensional animations with Lingo scripting (or other language) to be included in multimedia applications. Students learn advanced techniques which include the following: programming concepts in Lingo (or other language), improved hypertext and buttons, using lists and properties, file input and output, debugging, creating object-oriented movies in window programming, creating scrolling graphic and text menus bars, creating and custom cursors, controlling digital video and MIDI, creating games, and understanding Xtras and NetLingo and Shocking files for Internet use. Students will create advanced animations using scripts for output to kiosks, games, CDs, and the Internet.
Prerequisite: GRA2160C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 65.00

GRA2142C WEB DESIGN (3)
Intended for Art/Graphic Design majors who will apply sound design principles toward delivering images for the world wide web. The student will develop an understanding of how the internet is used by commerce, how it functions in the marketplace, and how Graphic Designers apply their skills to a digital media. The student will create web pages/sites, coordinate web structures, and learn basic web-site management techniques.
Prerequisite: ART1201C ART1300C GRA2190C
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 50.00

GRA2143C WEB PUBLISHING II (3)
This is an advanced graphics design course in designing web pages. Student will learn to create web pages using HTML focusing on interactivity and usability. Students will work with text, links, color, and images for Internet delivery. Students will also learn and use related technology: JavaScirp and Cascading Style Sheets. The class is portfolio driven.
Prerequisite: GRA2841C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 65.00

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 2D and 3D special affects. Students will be introduced to the fundamentals of creating and animating 3D images using 3D 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
GRA2160C MULTIMEDIA ANIMATION (3)  
Create 2-dimensional animations to be included in multimedia titles. Students learn the windows in the software; how objects can create the illusion of movement; how to auto-animate text; how to coordinate movement, placement, and timing of objects; how to add sound to animation; how to create an animation of a live object, backgrounds, and basic interactions. Students are introduced to scripting language to coordinate flow of information.

Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

GRA2161C ADVANCED IMAGE EDITING (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 with ImageReady 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, image maps, compare graphic formats, optimize web graphics & 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: GRA1131C  
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

GRA2162C INTRODUCTION TO 3D ANIMATION (3)  
This course is an introductory level course in 3D animation. Students create complex animations which are carefully planned through storyboarding and cinematic techniques. Students will complete 3D animation projects and follow the 3D animation process, practicing and applying various features of the 3D animation software package.

Prerequisite: GRA2171C  
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 65.00

GRA2171C ADVERTISING AND PROMOTIONAL 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 conceptual and development phases. The class is portfolio driven, training students to conceptualize and develop dynamic Web sites. Students will be familiar with the full features of ActionScript.

Prerequisite: GRA1120C GRA1151C PGY1801C  
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

GRA2181C 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 = 25.00

GRA2185C ART DIRECTION AND FINAL 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: GRA1120C GRA1151C PGY1801C  
Corequisite: GRA2181C  
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

GRA2190C INTRODUCTION TO GRAPHIC DESIGN (4)  
This course is an introduction to the materials, techniques and production methods used in the 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.

Prerequisite: ART1201C ART1300C  
Lec Hrs = 32  Lab Hrs = 64  Oth Hrs = 0  Fees = 0.00

GRA2191C GRAPHIC DESIGN II (4)  
Production studio techniques for graphic design, featuring preparation of art for reproduction using the computer as a graphic problem-solving tool, combining test, image, and digital design. Intended for art majors who wish to pursue a BFA degree in Graphic Design or want to seek entry employment.

Prerequisite: GRA2190C  
Lec Hrs = 32  Lab Hrs = 64  Oth Hrs = 0  Fees = 0.00

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

GRA2404C PRINCIPLES OF PROJECT MANAGEMENT II (3)  
Students in this course will gain a comprehensive understanding of the use of project management software to organize a project, schedule milestones, schedule tasks in the appropriate sequences, assign resources and costs to tasks, prepare professional reports, and track/analyze a project's progress.

Prerequisite: GRA2403  
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

GRA2723C ADVANCED WEB SITE DESIGN (3)  
This course allows developers, programmers, and designers to visually create and edit data-driven Web sites for multiple server platforms. Developers will use industry standard software (and/or other data-driven applications) to conceptualize and develop dynamic Web sites. Students will have complete knowledge of graphics, HTML and database management before taking this course.

Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

GRA2724C ADVANCED WEB ANIMATION (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

GRA2841C 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 = 65.00

GRAPA940C GRAPHIC DESIGN INTERNSHIP (3) This course is a culmination of the Graphic Design Technology program. Students will learn the necessary business protocol and job interviewing skills that will place them in an internship setting. 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 GRA2181C

Lec Hrs = 16 Lab Hrs = 16 Oth Hrs = 0 Fees = 45.00

HBR1122 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. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.

Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

HBR1122 BEGINNING HEBREW II (4) Continuation of Hebrew 1120. Further development of the basic skills. Selected readings in the textbook. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.

Prerequisite: HBR1120

Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

HBR2220 INTERMEDIATE HEBREW II (3) Review of all basic grammar principles. Emphasis on relative fluency in speaking. Comprehensive reading and writing skills sharpened. Limited cultural and historical information studied in the target language. This course completes the intermediate college level course in modern Hebrew. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.

Prerequisite: HBR2220

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HBR2220 INTERMEDIATE HEBREW I (4) Continuation in the instruction of the most salient grammatical principles plus introduction of new idiomatic material. Writings and selected readings in Modern Hebrew prose. Conversation at a more advanced level and pace. Meets Areas 2B and 8 general education requirements for the A.A. degree.

Meets Areas 2 or 5 general education requirements for the A.S. degree.

Prerequisite: HBR1121

Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

HCP0110C BASIC NURSING I NURSING ASSISTANT (4) This course is designed to prepare the student for employment as a nursing assistant. The student will perform basic nursing skills in both the college lab and clinical area. Didactic instruction will be taught concurrently. Instructor's approval or Prerequisite: HCP0130

Lec Hrs = 40 Lab Hrs = 0 Oth Hrs = 80 Fees = 72.95

HCP0130 HEALTH CAREERS CORE CURRICULUM (2) 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 = 52.00

HCP1930 FUNDAMENTALS OF CARDIAC CATHETERIZATION (3) This course is designed to provide the basic knowledge and skill necessary to prepare the health professional for orientation into a cath lab setting. The focus is to prepare the personnel to perform and function in a cath lab setting as related to diagnostic and interventional procedures. Topic areas include: historical perspective, techniques of cardiac catheterization, hemodynamics, pharmacology and radiology. Prerequisites: 2 years work experience in health related field. BCLS-C Certification.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 2.00

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.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HFT1700 INTRODUCTION TO TOURISM INDUSTRIES (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.

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.

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.

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.

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.

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
This course emphasizes how to sell and promote the services the hospitality/restaurant/travel industry offers 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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HFT2500 MARKETING  (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.

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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HFT2721 TRAVEL AGENCY MANAGEMENT AND OPERATION  (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 industry 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.

Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HFT2942 MANAGEMENT AND CONTROL PRACTICUM  (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 students and employer. Prerequisites: 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.

Lec Hrs = 0  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, including its history, roles, functions, and ethics. Upon completion, students should be able to use learning technologies, apply learning skills and describe the program and profession.

Prerequisite: BSC1085 BSC1085L
Corequisite: BSC1086 BSC1086L
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HIM1110 HEALTH DATA CONCEPTS  (3)

This course covers basic concepts and techniques for managing and maintaining health record systems. Topics include: record content and format, analysis, record management, forms design/control, release of information, indexes and registers. Upon completion, students should be able to demonstrate and understanding of health record systems, including their maintenance and control. Pre or Corequisite: HIM1000 HIM1300
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 3.00

HIM1253 CODING: BEGINNING  (4)

This beginning course is designed to provide an introduction into basic 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, CPT, and HCPCS.

Prerequisite: BSC1086 BSC1086L HIM1435
Corequisite: HIM1260
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HIM1260 HEALTH INSURANCE BILLING  (2)

This course covers federal, state, and private health insurance plans including managed care. Topics include: the processing cycle of health insurance claims, completion of the 1500 billing form, reimbursement methodologies, introduction to diagnosis and procedure coding systems, and legal and ethical issues. Upon completion, students should be able to apply billing principles to accurately and ethically receive appropriate reimbursement for services.

Prerequisite: HIM1300 HSC1531
Corequisite: HIM1253
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HIM1300 HEALTHCARE DELIVERY SYSTEMS  (3)

This course is an introduction to the historical development, current structure, operation, financing, and future directions of the major components of the U.S. health care 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 = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

HIM1435 PATHOPHYSIOLOGY  (3)

This course covers the nature, cause, and treatment of human diseases including the diagnostic and therapeutic modalities used for each. Typical health record data is interpreted. 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.

Prerequisite: BSC1085 BSC1085L HSC1531
Corequisite: BSC1086 BSC1086L HIM1300
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 35.00

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM2012</td>
<td>LAW AND ETHICS</td>
<td>2</td>
<td></td>
<td>Prerequisite: HIM2012</td>
</tr>
<tr>
<td>HIM2052</td>
<td>SUPERVISION &amp; ORGANIZATIONAL LIFE</td>
<td>2</td>
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</tbody>
</table>
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.
Lec Hrs = 96 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HLP1081 HEALTH FITNESS (2)
A course primarily designed and organized so that students of all ages can maintain and/or improve their physical health, through pre-testing procedures and individual assessment of strength, flexibility and cardiovascular endurance. From the data collected, and health/fitness information obtained in the course, individual fitness and health plans will be described and carried out.
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, PEM1146, PEN1171, or instructor's approval.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 2.00

HLP2949 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 students 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

HSA2810L PRACTICUM IN HEALTH FACILITY ADMIN (6)
An exposure and involvement in the managerial activity of health care facilities for the purpose of developing recognized competencies through the application and demonstration of prescribed objectives.
Prerequisite: ACG2001 HSA2111 HSC1531 HSC1949 MAN2021 MNA2345
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 272 Fees = 12.00

HSC1101C INTRODUCTION TO HEALTHFUL LIVING (1)
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 through health related fitness and nutrition assessments.
Lec Hrs = 16 Lab Hrs = 16 Oth Hrs = 0 Fees = 5.00

HSC1130 CONTEMPORARY HEALTH ISSUES (3)
Students will investigate, discuss, and make decisions regarding contemporary health issues such as sexuality, HIV/AIDS, STD's, drugs and alcohol, self esteem/depression/suicide, consumerism, lack of wellness, and specific current health issues.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HSC1531 MEDICAL TERMINOLOGY (3)
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

HSC1949 HEALTH SERVICE WORK EXPERIENCE (20)
Students with a postsecondary adult vocational certificate program may receive credit for classroom and work experience based upon departmental review. Credits may apply only to students seeking an A.S. degree in Health Service Management.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 384 Fees = 0.00

HSC2100 PERSONAL AND COMMUNITY HEALTH (3)
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. Not classified as an activity course. Elective credit only.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HSC2400 FIRST AID AND SAFETY (3)
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. Not classified as an activity course. Elective credit only.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HSC2660 COMMUNICATION FOR INTERDISCIPLINARY HEALTH TEAMS (2)
An introductory course for healthcare professionals working with interdisciplinary teams. Students will study the dynamics of interdisciplinary teams, quality customer relations, ethical and legal considerations and therapeutic communication skills. Note: Registration limited to students currently enrolled in the second year of an allied health program.
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HUM2700 HUMANITIES TRAVEL STUDY (3)
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HUM2701 HUMANITIES TRAVEL STUDY (3)
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.
Lec Hrs = 96 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

HUN1202 ESSENTIALS OF NUTRITION AND DIET THERAPY (3)
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 with or permission of the instructor. 3 hrs. lec. Term I, II, and III.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 2.00

IDH2121 HONORS INTERDISCIPLINARY STUDIES IN (3)
The Honors Interdisciplinary Studies Seminar is the capstone course in the Honors Program. In this course Honors students have the opportunity to integrate critical and analytical skills that will enable them to evaluate diverse ideas, information and research from an interdisciplinary perspective. The study topic will vary and will be structured around a specific theme; such as time period, an event or series of events, or a broad cultural concept. Course content will emphasize the relationships of knowledge in any combination of the following discipline groups: Mathematics/ Science, Social Science and Behavioral Science and Liberal Arts. Emphasis will be placed on interdisciplinary activities in composition, communication, technology and research. Activities may include written projects, group projects, presentations, community service, research and/or field trips.
In this course students will survey the properties and uses of interior materials. (IND1429 INTERIOR MATERIALS) 
Lec Hrs = 32      Lab Hrs = 32      Oth Hrs = 0      Fees = 40.00

This seminar focuses on the refinement of leadership skills, provides an enhanced leadership and group dynamics theory, and will assist the student in developing a personal philosophy of leadership and awareness of the moral and ethical responsibilities of leadership. Topics include decision making, goal setting, building trust, empowering others, conflict resolution, managing change, team building, and servant leaders. Reading and films from classic works in literature, contemporary and multi-cultural writing, and experiential learning exercises with current leadership theories and practices. Includes a service learning component, a shadowing experience, and a journal that highlights the students' entire leadership experience, both in and out of class, consisting of written responses to each of the classic works and contemporary reading assignments, specific critical analyses of films and other assignments as given in the class. (IDS2931 INTERDISCIPLINARY LEADERSHIP STUDIES) 
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

This introductory studio course examines the role of the interior designer, the psychology of space, color and client interactions. Emphasis is placed on exploration of the elements and principles of basic design and their application in the process of shaping and defining interior space and development of a base for critical design analysis. (IND1229C INTERIOR DESIGN CONSTRUCTION DOCUMENTATION) 
Lec Hrs = 32      Lab Hrs = 32      Oth Hrs = 0      Fees = 40.00

In this course students will apply design and communication skills to create and present a complete design for a specific client. Selection of furnishings and cabinetry as well as fabrics/finish are developed and applied to the overall design scheme. (IND2210C INTERIOR DESIGN STUDIO) 
Lec Hrs = 32      Lab Hrs = 32      Oth Hrs = 0      Fees = 40.00

A consideration of the concepts of sovereignty, power, security; national interest in the determination of foreign policy; the United Nations and its functions and limitations; study of the employment of these concepts in analysis of foreign policy developments of leading nations and the emerging nations. (RELATIONS) 
Lec Hrs = 32      Lab Hrs = 32      Oth Hrs = 0      Fees = 40.00

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. (ISS2949 CO OP WORK EXPERIENCE) 
Lec Hrs = 0      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

Prerequisite: IND1022 IND1607C IND1229C

Introduction to the study of human behavior emphasizing its practical applications in business and industry. The course introduces the student to personal and social adjustment mechanisms as a means of understanding the behavior of one's self and of other. Also introduces the student to current psychological applications in the fields of testing, advertising, selling, market research, morale, personnel work, employee selections and training, and supervisory practices. (INP1390 HUMAN RELATIONS IN BUSINESS AND INDUSTRY) 
Lec Hrs = 16      Lab Hrs = 256      Oth Hrs = 0      Fees = 0.00

Introductory course to the study of human behavior emphasizing its practical applications in business and industry. The course introduces the student to personal and social adjustment mechanisms as a means of understanding the behavior of one's self and of other. Also introduces the student to current psychological applications in the fields of testing, advertising, selling, market research, morale, personnel work, employee selections and training, and supervisory practices. (INP1390 HUMAN RELATIONS IN BUSINESS AND INDUSTRY) 
Lec Hrs = 16      Lab Hrs = 256      Oth Hrs = 0      Fees = 0.00

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. (ISS2949 CO OP WORK EXPERIENCE) 
Lec Hrs = 0      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

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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. (ISS2949 CO OP WORK EXPERIENCE) 
Lec Hrs = 0      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

Prerequisite: IND1022 IND1607C IND1229C

Prerequisite: ITA1120

Prerequisite: ITA1120 IN1607C

Prerequisite: ITA1120

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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU1100</td>
<td>BASIC REPORTING</td>
<td>(3)</td>
<td>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, leading, editorial writing, news, types of stories, organization of stories, policy, and libel. Prerequisite: Permission of instructor or Prerequisite: ENC1101.</td>
</tr>
<tr>
<td>JOU1207L</td>
<td>MAGAZINE PRODUCTION</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>JOU1400L</td>
<td>NEWSPAPER PRACTICUM I</td>
<td>(1)</td>
<td>Practical application of news writing and editing principles through work with college media. Instructor's approval or Prerequisite: JOU1100.</td>
</tr>
<tr>
<td>JOU1401L</td>
<td>NEWSPAPER PRACTICUM II</td>
<td>(2)</td>
<td>Continuation of JOU1400L. Students may take JOU1400L and JOU1401L during the same term. Instructor's approval or Pre or Corequisite: JOU1400L.</td>
</tr>
<tr>
<td>JOU1402L</td>
<td>NEWSPAPER PRACTICUM III</td>
<td>(2)</td>
<td>Continuation of JOU1421L. 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.</td>
</tr>
<tr>
<td>JOU1440L</td>
<td>MAGAZINE PRACTICUM I</td>
<td>(1)</td>
<td>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's approval or Prerequisite: JOU1207L.</td>
</tr>
<tr>
<td>JOU1441L</td>
<td>MAGAZINE PRACTICUM II</td>
<td>(1)</td>
<td>Continuation of JOU1440L. Instructor's approval or Prerequisite: JOU1440L.</td>
</tr>
<tr>
<td>JOU2200</td>
<td>NEWSPAPER EDITING AND MAKEUP</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>LEI1000</td>
<td>INTRODUCTION TO RECREATION</td>
<td>(3)</td>
<td>This course acquaints the individual with the recreation organization and opportunities for leaders in the field.</td>
</tr>
<tr>
<td>LEI1260</td>
<td>INTRODUCTION TO OUTDOOR RECREATION</td>
<td>(3)</td>
<td>This course will introduce students to the career opportunities available in the field of outdoor recreation/adventure education.</td>
</tr>
<tr>
<td>LEI1700</td>
<td>RECREATION FOR SPECIAL GROUPS</td>
<td>(3)</td>
<td>An overview of the characteristics and needs of members of special groups and how to plan and implement recreational activities appropriate for each group.</td>
</tr>
<tr>
<td>LEI2401</td>
<td>RECREATION MANAGEMENT</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>LEI2731C</td>
<td>RECREATION THERAPY</td>
<td>(2)</td>
<td>An overview of various therapies that can be useful in a recreational setting.</td>
</tr>
</tbody>
</table>

Course Descriptions

www.broward.edu  Catalog 2006-2007  Broward Community College
LEI2861 RECREATION TECHNOLOGY AND EQUIPMENT (3)
The rapid growth of technology and sophistication of equipment, necessitate the recreation specialist to keep abreast of developments in the market place. This course is
designed to expose students to hardware, software, and
equipment that are commonly used in centers across the
country. Equipment that are commonly used in centers across the
technology and equipment.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIN1670 ENGLISH GRAMMAR (3)
A course designed for those desiring more intensive work in
grammar and syntax than composition courses provide.
Includes the study of grammatical principles and theory and
application of those principles in student writing. May be taken
by public school teachers for recertification. Special fee charged.
Prerequisite: ENC0021
Lec Hrs = 48  Lab Hrs = 8  Oth Hrs = 0  Fees = 5.00

LIT1171 JEWISH LITERATURE I: 1800 TO THE HOLOCAUST (3)
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, Calman, and H. Roth. May be used for study
abroad. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT1172 JEWISH LITERATURE II: HOLOCAUST TO THE PRESENT (3)
A study of selected works from the Holocaust to the present.
Analyses the major characteristics of worldwide modern
Jewish and Israeli literature. Includes such authors as Weisel,
Malamud, Bellows, P. Roth, Ozick, Singer, Oz, Yehoshua, and
Appelfeld. May be used for study abroad. Prerequisite:
Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT1370 THE BIBLE AS LITERATURE (3)
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. Prerequisite:
Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT2020 INTRODUCTION TO THE SHORT STORY (3)
A discussion of the themes in short stories from many
countries of the world. May include such authors as Poe,
Borges, Camus, Chekhov, Fuentes, Mishima, O'Connor,
Bambara, Walker, Kafka, and Maupassant. Meets Areas 2A
and 8 general education requirements for the A.A. degree.
Meets Areas 2 or 5 general education requirements for the A.S.
and A.A.S. degrees. Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT2030 GREAT IDEAS IN POETRY (3)
A view of poetry as an exploration into the depth of human
experience. Audio-visual materials, guest speakers, and field
trips may be utilized. Students read and discuss the aesthetics
of poetry. Meets Area 2A general education requirements for
the A.A. degree. Meets Areas 2 or 5 general education
requirements for the A.S. degree. Prerequisite: Eligibility for
ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT2110 WORLD LIT THROUGH RENAISSANCE (3)
A survey of selected masterpieces of world literature since
the 16th century. Includes excerpts from the Old and New Testaments
and authors such as Sappho, Sophocles, Ovid, Confucius, Lao
Tzu, Dante, Boccaccio, Aesop, Homer and Shakespeare.
Meets Areas 2A and 8 general education requirements for the
A.A. degree. Meets Areas 2 or 5 general education
requirements for the A.S. and A.A.S. degrees. Prerequisite:
Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT2120 WORLD LIT RENAISSANCE TO PRESENT (3)
A survey of selected masterpieces of world literature since
1610. Includes such authors as Rousseau, Franklin,
Wollstonecraft, Tolstoy, Lessing, Camus, Achebe, Yeats,
Neruda, Voltaire and Marquez. Meets Areas 2A and 8 general
education requirements for the A.A. degree. Meets Areas 2 or 5
general education requirements for the A.S. and A.A.S.
Prerequisite: Eligibility for ENC1101
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

LIT2310 LITERATURE OF THE SUPERNATURAL AND SCIENCE FICTION (3)
An introduction to the literature of science fiction, fantasy, and
the supernatural. Includes authors such as Stoker, Lovecraft,
Asimov, Bradbury and Tolkein. Meets Area 2A general
education requirements for the A.A. degree. Meets Areas 2 or 5
general education requirements for the A.S. degree.
Prerequisite: Eligibility for ENC1101
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. Prerequisite: Eligibility for
ENC1101
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 a
play, short stories, novels, and poetry from classical to
contemporary. Prerequisite: Eligibility for ENC1101
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. Prerequisite: Eligibility for ENC1101
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
credit depending on area to be visited. Prerequisite: Eligibility
for ENC1101 and instructor's approval
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, and square root functions;
operations, compositions, and inverses of functions; and
systems of equations and inequalities, all with applications
throughout the course. Recommendation of the Mathematics
Department or at least a grade of "C" in the Prerequisite course
is required.
Prerequisite: MAT1033
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 20.00

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;
polar coordinates; and parametric equations. graphing calculator
may be required. Recommendation of the Mathematics
Department or at least a grade of "C" in the
Prerequisite course is required.

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MAC1140 PRECALCULUS 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. Required of the Mathematics Department or at least a grade of "C" in the Prerequisite course is required.
Prerequisite: MAC1105
Lec Hrs = 48   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

MAC1147 PRECALCULUS ALGEBRA AND TRIGONOM (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.
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. Meets Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.S. degree. Recommendation of the Mathematics Department or at least a grade of "C" in the Prerequisite course is required.
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. Meets 5 credits of Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.S. degree. Recommendation of the Mathematics Department or at least a grade of "C" in each of the Prerequisite courses is required.
Prerequisite: MAC1114 MAC1140
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, arc length, surface area, work, and other applications of integration. A graphing calculator may be required in certain sections of this course. Meets 5 credits of Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Recommendation of the Mathematics Department or at least a grade of "C" in the Prerequisite course is required.
Prerequisite: MAC2311
Lec Hrs = 80   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

MAC2313 CALCULUS AND ANALYTICAL GEOMETRY II (4)
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. Meets 4 credits of Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.S. degree. Recommendation of the Mathematics Department or at least a grade of "C" in the Prerequisite course is required.
Prerequisite: MAC2312
Lec Hrs = 64   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

MAD2104 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.
Prerequisite: MAC1140
Lec Hrs = 48   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

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.
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.
Lec Hrs = 48   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

MAN2949 CO OP WORK EXPERIENCE (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. Prerequisites: Co-Op department approval.
Prerequisite: specific course prefixes related to 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

MAP2302 DIFFERENTIAL EQUATIONS (3)
Topics include the classification, solution, and application of differential equations, including numerical methods, Laplace transforms, linear systems, and series solutions. Meets Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.S. degree. 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
Lec Hrs = 48   Lab Hrs = 0   Oth Hrs = 0   Fees = 0.00

MAR1011 PRINCIPLES OF MARKETING (3)
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 forms and prepare case studies of businesses engaged in manufacturing, wholesaling, retailing and service.
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.
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. Meets Area 5A of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.S. degree. 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
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MAT0012 PRE ALGEBRA (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.
Prerequisite: MAT0012L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MAT0012L PRE ALGEBRA LAB (0)
A laboratory course that will supplement classroom instruction in MAT0012. Instruction will focus on the individual needs of the student.
Pre or Corequisite: MAT0012
Lec Hrs = 0 Lab Hrs = 16 Oth Hrs = 0 Fees = 20.00

MAT0020 INTEGRATED ARITHMETIC AND ALGEBRA (8)
A course which combines the arithmetic and algebra skills of MAT0012 and MAT0024. This course includes all mathematics skills necessary for entry into college-level mathematics. Arithmetic topics include operations with real numbers, fractions, decimals, exponents, geometry, measurement systems, percents, and ratios. Algebra topics include sets, polynomial operations, factoring, solving and graphing linear equations and inequalities, operations with quadratic equations, and applications of all concepts. Credit for this course may not be used to meet degree requirements.
Prerequisite: MAT0020L
Lec Hrs = 96 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MAT0020L INTEGRATED ARITHMETIC AND ALGEBRA LAB (0)
A laboratory course that will supplement classroom instruction in MAT0020. Instruction will focus on the individual needs of the student.
Pre or Corequisite: MAT0020
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 20.00

MAT0024 ELEMENTARY ALGEBRA (4)
A course to help students learn the basic algebra skills needed for college-level mathematics courses. The student will utilize his/her knowledge of arithmetic and algebra for applications problems. Topics include sets; linear and quadratic equations and linear inequalities; exponents; factoring; rational expressions; radical expressions; graphing of linear equations; and systems of equations. Certain sections of this course will use teaching software; such sections will occur in an automated and interactive environment. Credit for this course may not be used to meet degree requirements. Suitable placement test score or at least a grade of "C" in the Prerequisite course is required.
Prerequisite: MAT0012
Corequisite: MAT0024L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MAT0024L ELEMENTARY ALGEBRA LAB (0)
A laboratory course that will supplement classroom instruction in MAT0024. Instruction will focus on the individual needs of the student and consist of computer aids, video tapes, and tutor support.
Pre or Corequisite: MAT0024
Lec Hrs = 0 Lab Hrs = 16 Oth Hrs = 0 Fees = 20.00

MAT1033 INTERMEDIATE ALGEBRA (3)
A continuation of algebra containing topics such as factoring; operations with rational expressions; absolute value; exponents, radicals, and roots; complex numbers; linear and quadratic equations and linear inequalities; graphs; systems of equations; and functions, all with applications throughout the course. Certain sections of this course will use teaching software; such sections will occur in an automated automated and interactive environment. Meets 3 hours of elective credit for the A.A. degree. Suitable placement score or at least a grade of "C" in MAT0024 (or MAT0020) is required.
Prerequisite: MAT0024
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 20.00

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". Meets Area 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: BSC1085 BSC1085L CHM1032
Pre or Corequisite: MCB2010L
Lec Hrs = 48 Lab Hrs = 0 Oth 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. Meets Area 4C general education requirements for the A.A. degree. Meets Area 4 5 general education requirements for the A.S. degree. Placement by Testing Department or Prerequisite: BSC1085 BSC1085L CHM1032
Pre or Corequisite: MCB2010
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 45.00

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 health team members are emphasized. Study of the various medical specialties and the history of medicine are included. Front office procedures include telephone techniques, medical records management, and mail processing. Prerequisite: program admission.
Lec Hrs = 32 Lab Hrs = 0 Oth 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 Oth Hrs = 0 Fees = 0.00

MEA0204L CLINICAL PROCEDURES LABORATORY (2)
Laboratory portion of MEA0204. Laboratory practice in procedures relating to: taking vital signs, assisting at the physical examination and minor surgery, sterilization of instruments, preparation and administration of medications, assisting with physical therapy modalities and taking electrocardiograms. Approved uniform required.
Pre or Corequisite: HSC1531 MEA0204
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 20.00

MEA0224 MEDICAL ASSISTANT (2)
Lecture portion of MEA0224L 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.
Prerequisite: MEA0204 MEA0204L MEA0255 MEA0255L
Lect Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 15.00

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. Professional uniform required.
Prerequisite: MEA0204 MEA0204L MEA0255 MEA0255L
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

MEA0255L MEDICAL OFFICE 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.
Prerequisite: MEA0204 MEA0204L MEA1233
Pre or Corequisite: MEA0255
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 20.00

MEA0256 MEDICAL OFFICE PROCEDURES II (1)
Lecture portion of MEA0256L includes instruction in basic office hematology, immunology and chemistry. Professional uniform and shoes required.
Prerequisite: MEA0204 MEA0204L MEA0255 MEA0255L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

MEA0256L MEDICAL OFFICE PROCEDURES II (1)
Laboratory portion of MEA0256. Includes instruction in basic office hematology, immunology and chemistry. Professional uniform and shoes required.
Prerequisite: MEA0204 MEA0204L MEA0255 MEA0255L
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 20.00

MEA0258 RADIOLOGY FOR THE MEDICAL ASSISTANT (2)
Provides instruction in the basic principles of X-ray, film handling, processing, radiographic technique, radiation biology and radiation protection. Prerequisite: Program Admission or department permission.
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MEA0259 MEDICAL ASSISTING PART II (2)
A continuation of MEA0258 with emphasis on radiographic procedures and positioning, patient care and management with emphasis on terminology, anatomy, positioning and procedures, aseptic and sterile technique. Will also include a brief review of subjects taught in MEA0258.
Prerequisite: MEA0258
Pre or Corequisite: MEA0259L
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 15.00

MEA0259L MEDICAL ASSISTING PART II LAB (2)
Practical application of the principles of radiation protection, radiographic technique, film handling and processing, darkroom operation, radiographic positioning and procedures related to the upper extremities, lower extremities, and chest. Prerequisite: MEA0259
Corequisite: MEA0259
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 20.00

MEA0271 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

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 ASSISTANT (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
Pre or Corequisite: HSC1531
Lec Hrs = 37 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MEA0540L BASIC ELECTROCARDIOGRAPHY FOR MEDICAL ASSISTANT 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
Pre or Corequisite: HSC1531
Lec Hrs = 0 Lab Hrs = 38 Oth Hrs = 0 Fees = 10.00
MEAO8000 EXTERNSHIP 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 = 224 Fees = 30.00

MKA1021 SALESMA nSHIP (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.
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 a promotional program for a product, business, or not-for-profit organization.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MEAO952 SEMINAR 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: MEAO8000
Lec Hrs = 26 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MEAO1233 ANATOMY AND PHYSIOLOGY FOR M.A. (3)
A basic anatomy and physiology course designed to meet the needs of medical assisting students. Emphasis will be placed on the human body structure, the functions of its many different systems and their associated diseases.
Corequisite: HSC1531
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MEF1106 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. This 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
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 20.00

MEF1107 MATHEMATICS FOR LIBERAL ARTS II (3)
This is a general education course which includes college-level skills not included in the courses MAT0012 Pre-Algebra, MAT0024 Elementary Algebra, and MAT1033 Intermediate Algebra. The course will include selected topics from mathematics of finance; linear and exponential functions; number systems; history of mathematics; theory of numbers; graph theory; numerical methods and algorithms; game theory; and student project(s) (strongly recommended). This course will also emphasize applications to real-world situations and the integration of other disciplines, including (but not limited to) business and physical sciences. (Note: Liberal Arts Math I is not a Prerequisite for this course). Recommendation of the Mathematics Department or at least a grade of "C" in the Prerequisite course is required.
Prerequisite: MAT1033
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 related activities.
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 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
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
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.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MLT1525C MEDICAL LABORATORY TECHNOLOGY III (5)
Immunohematology to include basic genetics; quality control; principles, techniques and factors affecting testing for identification of immunoglobulins (natural and acquired); donor selection, phlebotomy and processing including legal aspects; blood components; compatibility testing and exchange transfusion; Course includes experiences in the classroom and in a clinical facility.
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 88 Fees = 37.95

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MSS0001 MEDICAL ETHICS AND STANDARDS FOR MA (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 SYSTEM (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 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 (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
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
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 = 45.95

MSS0281 ALLIED MODALITIES (0)
Basic principles of allied modalities such as Polarity Therapy, Asian massage, trigger point therapy, deep tissue massage, reflexology, myofascial 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
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

MSS0300 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 presented. Basic principles of ultrasound, interferential current, TENS and electrical stimulation are presented.
Prerequisite: MSS0250 MSS0250L
Pre or Corequisite: MSS0300
Lec Hrs = 15  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

MSS0300L HYDROTHERAPY MODALITIES LAB
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: MSS0300
Lec Hrs = 0  Lab Hrs = 45  Oth Hrs = 0  Fees = 33.95

MSS0803L MASSAGE THERAPY CLINICAL PRACTICUM
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 = 45.95

MTB1103 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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

MTB1310 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.
Prerequisite: MAT0024
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: MAT0024
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 PROFESSIONALS (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

MTG2204 GEOMETRY FOR TEACHERS (3)
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MTG2206 COLLEGE GEOMETRY (3)
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 line 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

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.
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.
Pre or Corequisite: MUT1111
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

MUG2101 CONDUCTING (2)
The elementary theory and practice of the technique of conducting.
Prerequisite: MUT1111 MUT1241
Lec Hrs = 32 Lab Hrs = 0 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).
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MUH2111 MUSIC HISTORY AND LITERATURE (3)
A survey course tracing the history of music from antiquity through the 18th century, showing the significance of music's development resulting from social, international and cultural influences. Meets Areas 2E and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. 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. Meets Area 2E and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MUL2010 MUSIC APPRECIATION (3)
Course for non-music majors, designed to enlarge the student's appreciation of music as it relates to world cultures. Meets Areas 2E and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. 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 studies of major musical works.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

MUM1600 INTRODUCTION TO RECORDING STUDIO 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.
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. 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.
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.
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.
Lec Hrs = 48 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

MUN1210 SYMPHONY ORCHESTRA (1)
Open by audition to all students, faculty and members of the community who play an orchestral instrument. Chairs assigned by the conductor. 3 hours rehearsal weekly. May be taken four times for transfer credit.
Lec Hrs = 48 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

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.
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.
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
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
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.
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.
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.
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.
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.
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.
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.
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.
Lec Hrs = 48 Lab Hrs = 32 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.
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. Meets Area 7 A.A. degree general education requirements.
Lec Hrs = 48 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

MUO1502 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.
Lec Hrs = 48 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

MUS2342 INTRODUCTION TO COMPUTER MUSIC (3)
An introduction to the creation and performance of music using computers and MIDI technology. Prerequisite: basic keyboard skills and music reading ability.
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.
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.
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT1111</td>
<td>MUSIC THEORY I</td>
<td>3</td>
<td>A course on music theory and related keyboard skills. Emphasis on diatonic</td>
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<td>materials. Pre or Corequisite: MUT1241</td>
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<td>Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00</td>
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<tr>
<td>MVB1211</td>
<td>TRUMPET</td>
<td>1</td>
<td>A continuation of MUT1111. Prerequisite: MUT1111 Corequisite: MUT1242</td>
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<tr>
<td>MVB1212</td>
<td>FRENCH HORN</td>
<td>1</td>
<td>One half-hour lesson weekly and one hour of practice daily. Corequisite:</td>
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<td></td>
<td>Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0 Lab Hrs = 8 Oth Hrs = 0 Fees = 50.00</td>
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<td>TROMBONE</td>
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<td>One half-hour lesson weekly and one hour of practice daily. Corequisite:</td>
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<td>MVB1214</td>
<td>BARITONE HORN</td>
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<td>MVB2211</td>
<td>TRUMPET</td>
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<td>One half hour lesson weekly and one hour of practice daily. Corequisite:</td>
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<td>MVB2222</td>
<td>FRENCH HORN</td>
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<tr>
<td>MVJ1214</td>
<td>ELECTRIC BASS / SECONDARY (1)</td>
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<td></td>
<td>One hour lesson per week and two hours of practice daily.</td>
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<td></td>
<td>Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>MVJ1215</td>
<td>ELECTRIC BASS II (1)</td>
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<td></td>
<td>Applied instruction in electric bass for the music principal. One half hour lesson per week and one hour of practice daily.</td>
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<td>Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00</td>
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<td>MVJ1224</td>
<td>JAZZ GUITAR II (1)</td>
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<td>One half hour lesson weekly and one hour of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00</td>
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<td>MVJ1225</td>
<td>JAZZ Guitar / SECONDARY (1)</td>
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<td>One hour lesson weekly and one hour of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>MVJ1310</td>
<td>PRINCIPAL JAZZ PIANO I (1)</td>
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<td></td>
<td>Applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily.</td>
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<td>Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00</td>
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<td>MVJ1311</td>
<td>PRINCIPAL JAZZ VOICE I (1)</td>
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<td></td>
<td>Applied instruction in jazz voice for the music principal. One hour lesson per week and two hours of practice daily.</td>
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<td>Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>MVJ1313</td>
<td>PRINCIPAL JAZZ GUITAR I (1)</td>
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<td></td>
<td>Applied instruction in jazz guitar for the music principal. One hour lesson per week and two hours of practice daily.</td>
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<td>PRINCIPAL ELECTRIC BASS I (1)</td>
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<tr>
<td>MVJ2220</td>
<td>JAZZ PIANO (1)</td>
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<td></td>
<td>One half hour lesson weekly and one hour of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00</td>
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<tr>
<td>MVJ2223</td>
<td>JAZZ GUITAR (1)</td>
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<td>One half hour lesson weekly and one hour of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00</td>
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<td>MVJ2225</td>
<td>JAZZ VOICE (1)</td>
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<td>One half hour lesson weekly and one hour of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00</td>
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<tr>
<td>MVJ2310</td>
<td>PRINCIPAL JAZZ PIANO II (1)</td>
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<td></td>
<td>Applied instruction in jazz piano for the music principal. One hour lesson per week and two hours of practice daily.</td>
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<td>Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00</td>
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<td>MVJ2311</td>
<td>PRINCIPAL JAZZ VOICE II (1)</td>
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<td></td>
<td>Applied instruction in jazz voice for the music principal. One hour lesson per week and two hours of practice daily.</td>
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<td>Corequisite: Any music course (MUx) other than Music Appreciation.</td>
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<td>Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00</td>
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**Corequisite:** Any music course (MUx) other than Music Appreciation.
MVJ2324 PRINCIPAL ELECTRIC BASS II  (1)  
Applied instruction in electric bass 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  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVK1011 BASIC PIANO  (1)  
Basic instruction in piano. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVK1111 PIANO CLASS  (1)  
Basic piano skills for the beginning student. Meets Area 7 A.A. degree general education requirements.  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

MVK1112 PIANO CLASS II  (1)  
Basic piano skills for the intermediate student. Two hours weekly. Meets Area 7 A.A. degree general education requirements. Prerequisite: MVK1111  
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

MVK1211 PIANO  (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

MVK1213 ORGAN  (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

MVK1311 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.  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVK1313 PRINCIPAL ORGAN I  (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.  
Corequisite: MVK1211  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVK2221 PIANO  (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

MVK2223 ORGAN  (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

MVK2321 PRINCIPAL PIANO II  (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.  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

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.  
Corequisite: MVK1211  
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 practice daily. By permission of the instructor. Corequisite: Any music course (MUx) other than Music Appreciation.  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVP1011 BASIC PERCUSSION  (1)  
Basic instruction in percussion. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  
Corequisite: MVK1211  
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.  
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  
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.  
Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

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  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS1110 STRING TECHNIQUES  (1)  
Basic instruction in strings. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  
Corequisite: MVK1211  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS1116 GUITAR CLASS  (1)  
Class instruction in beginning classical guitar techniques. Meets Area 7 A.A. degree general education requirements.  
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.  
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.  
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.  
Corequisite: MVK1211  
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

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Applied instruction in string bass for the music principal. One hour weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

MVS1214 STRING BASS  
(1)  
Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

MVS1215 HARP  
(1)  
Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 50.00

MVS1216 CLASSICAL GUITAR  
(1)  
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  

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  

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  

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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS1315 HARP  
(1)  
One hour lesson per week and two hours of practice daily. Class offered on demand. Prerequisite: Audition. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS2126 GUITAR CLASS  
(1)  
Class instruction in intermediate guitar techniques.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

MVS2221 VIOLIN  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2222 VIOLA  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2223 CELLO  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2224 STRING BASS  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2225 HARP  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2226 CLASSICAL GUITAR  
(1)  
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.  

Corequisite: MVK1211  

Lec Hrs = 0  Lab Hrs = 8  Oth Hrs = 0  Fees = 100.00

MVS2321 PRINCIPAL VIOLIN II  
(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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS2322 PRINCIPAL VIOLA II  
(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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS2323 PRINCIPAL CELLO II  
(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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS2324 PRINCIPAL STRING BASS II  
(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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

MVS2325 PRINCIPAL SOPHOMORE HARP  
(1)  
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  

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

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**MVS2326 PRINCIPAL CLASSICAL GUITAR II** (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
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 50.00

**MVS1011 BASIC VOICE** (1)
Basic instruction in voice. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation. Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVS1111 VOICE CLASS** (1)
Fundamentals of voice production and building of solo repertoire. Meets Area 7 A.A. degree general education requirements. Term I, II and III.
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**MVW1215 SAXOPHONE** (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

**MVW1211 VOICE** (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

**MVV1313 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
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
Audition. Corequisite: Any music course (MUx) other than Music Appreciation.
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVV1311 PRINCIPAL VOICE I** (1)
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
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW1214 BASSOON** (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

**MVW1212 OBOE** (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

**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
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW1110 WOODWIND TECHNIQUES** (1)
Basic instruction in woodwinds. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW1221 FLUTE** (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

**MVV1211 VOICE** (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

**MVW2221 FLUTE** (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

**MVW1213 CLARINET** (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

**MVW2221 BASSOON** (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

**MVV2221 BASSOON** (1)
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW2221 CLARINET** (1)
One half hour lesson weekly and one hour of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW2321 PRINCIPAL VOICE II** (1)
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
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
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
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVV1111 VOICE** (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

**MVW1111 VOICE** (1)
One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW1210 WOODWIND TECHNIQUES** (1)
Basic instruction in woodwinds. One hour lesson per week and two hours of practice daily. Corequisite: Any music course (MUx) other than Music Appreciation.
Corequisite: MVK1211
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 100.00

**MVW1212 OBOE** (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

**MVW1213 CLARINET** (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

**MVW2222 OBOE** (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

**MVW2223 CLARINET** (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

**MVW2224 BASSOON** (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
NMT1002 INTRODUCTION TO NUCLEAR MEDICINE TECHNOLOGY (3)
Introduces the student to the field of nuclear medicine. Review of CPR and first aid; determine vital signs; how to provide patient care; monitor life support equipment; take and record case histories; and apply universal precautions. Prerequisite: Program Admission.
Pre or Corequisite: NMT1002L
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

NMT1002L INTRODUCTION TO NUCLEAR MEDICINE LAB (1)
Introduces the student to the fundamentals of clinical nuclear medicine primarily through practice of material that is learned in NMT1002. Prerequisite: Program Admission.
Pre or Corequisite: NMT1002
Lec Hrs = 0      Lab Hrs = 32      Oth Hrs = 0      Fees = 25.00

NMT1312 NUCLEAR MEDICINE RADIATION PROTECTION (3)
Designed to assure compliance with local, state, and federal regulations; follow appropriate protection procedures; perform area surveys and wipe tests; decontamination procedures; dispose of radioactive waste; practice personnel monitoring of radiation exposure; darkroom techniques; follow approved procedures for identifying and labeling. Prerequisite: NMT1002 NMT1002L
Pre or Corequisite: NMT1814
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

NMT1814 NUCLEAR MEDICINE CLINICAL EDUCATION (3)
Continuation of NMT1002L that places the student in a clinical site where they will become acquainted with radiation protection and safety along with patient procedures. Prerequisite: NMT1002
Pre or Corequisite: NMT1312
Lec Hrs = 0      Lab Hrs = 0      Oth Hrs = 384      Fees = 50.95

NMT1824 NUCLEAR MEDICINE CLINICAL EDUCATION (2)
Continuation of NMT1814. Student will perform routine quality control and quality assurance procedures. Prerequisite: NMT1312 NMT1814
Lec Hrs = 0      Lab Hrs = 0      Oth Hrs = 256      Fees = 37.95

NMT2061 NUCLEAR MEDICINE (3)
Comprehensive testing, discussions and refinement of knowledge of all aspects of Nuclear Medicine technology complementary to national and state certification and professional competency. Prerequisite: NMT2573 NMT2706L NMT2844
Pre or Corequisite: NMT2854
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 radio- pharmaceutical 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
Lec Hrs = 48      Lab Hrs = 0      Oth Hrs = 0      Fees = 0.00

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 LAB 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.
**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, asepsis, and care of the surgical patient.

Prerequisite: BSC1086 BSC1086L MTB1370

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, asepsis, and care of the surgical patient.

Course activities focus on nursing care of the adult patient experiencing medical/surgical situations.

Prerequisite: BSC1086 BSC1086L MTB1370

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**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 genitourinary 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: BSC1086 BSC1086L

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**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: BSC1086 BSC1086L

Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**NUR1271 COMM HEALTH: FOUNDATIONS OF COMMUNITY HEALTH (3)**

This course is designed to provide the health professional concepts of community health including basic foundations of health care. Topics to be covered include concepts of health, wellness and illness, philosophy of community health, holistic health care, influence of culture, and the role of the health professional.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 120.95

**NUR1272 COMMUNITY HEALTH: COMMUNITY HEALTH (3)**

This course is designed to provide the health professional the concepts of community health care including assessment of the client, role of the family, problems of families across the life span, community health services, environmental and occupational health, communicable diseases and crisis intervention.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 12.00
NUR1273 COMMUNITY HEALTH: HEALTH PROMOTION AND PREVENTION (3)
This course is designed to provide the health professional the concepts of community health. Focus for this course: risk appraisals and management, strategies in promoting health, techniques for client education, marketing, evaluation, and problems of the elderly.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 12.00

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: NUR1310
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 112 Fees = 120.95

NUR1420L TRANSITION HEALTH CARE OF WOMEN CLIENT (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.
Pre or Corequisite: NUR1421
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 56 Fees = 122.95

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/new born 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 = 120.95

NUR1500L TRANSITION PSYCHIATRIC NURSING CLINICAL (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 Pre or Corequisite: NUR1524
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 56 Fees = 110.95

NUR1524 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: NUR1524L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

NUR1524L NURSING CARE OF THE PSYCHIATRIC PATIENT (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: NUR1524
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 112 Fees = 120.95

NUR1731L TRANSITION PSYCHIATRIC NURSING CLINICAL (1)
This clinical course provides the LPN student with an understanding of growth and development through the stages of childhood and the application of the nursing process through these stages.
Prerequisite: NUR2000L NUR2020 Pre or Corequisite: NUR1310
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 56 Fees = 122.95

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: MTB1370 NUR2020
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 112 Fees = 123.10

NUR2020 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: MTB1370 NUR2020L
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

NUR2062 HEALTH ASSESSMENT OF THE ADULT CLIENT (5)
This course focuses on assessment of the adult client as he or she fluctuates on the wellness illness continuum. Techniques of physical assessment will be systematically taught in a head to toe approach. The skill of concisely recording the findings will also be included. 80 hrs lec. Term I and II.
Lec Hrs = 80 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

NUR2201 TRANSITION NURSING II CLINICAL LAB (2)
This theoretical course for the LPN covers the following concepts: application of the nursing process in the care of clients with alterations of mobility, skin integrity, ingestion, metabolism elimination, and neuro-endocrine regulatory mechanisms.
Prerequisite: BSC1086 BSC1086L NUR2020 NUR2000L Pre or Corequisite: NUR2201L
Lec Hrs = 80 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

NUR2201L TRANSITION NURSING II CLINICAL LAB (2)
Clinical Lab will provide the student with the opportunity to apply the nursing process in the clinical area to adult patients with alterations in mobility, skin integrity, neuro-regulatory...
Course Descriptions

Course: NUR2202 TRANSITION NURSING III
This theoretical course for the LPN covers the following concepts: application of the nursing process in the care of clients with alterations of circulatory, respiratory, urinary, and endocrine functions.

Prerequisite: BSC1086 BSC1086L NUR2201 NUR2201L
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 112  Fees = 97.95

Course: NUR2202L TRANSITION NURSING III CLINICAL LAB
This clinical lab for the LPN will provide the opportunity to apply the nursing process in the care of adult patients with the alterations of circulatory, respiratory, urinary, and endocrine functions.

Prerequisite: BSC1086 BSC1086L NUR2201 NUR2201L
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Course: NUR2221 HEALTH ALTERATIONS II
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: NUR2221 Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 112  Fees = 123.10

Course: NUR2221L HEALTH ALTERATIONS II CLINICAL LAB
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: NUR1120 NUR1220L NUR1310L NUR1421 Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Course: NUR2222 HEALTH ALTERATIONS III
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 course. The focus is the pathophysiology, common medical diagnostic and treatment modalities, 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 Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Course: NUR2222L HEALTH ALTERATIONS III 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.

Prerequisite: NUR2221 NUR2221L Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 112  Fees = 120.95

Course: NUR2270 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.

Prerequisite: NUR2270 Lec Hrs = 80  Lab Hrs = 0  Oth Hrs = 0  Fees = 2.00

Course: NUR2270L 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.

Prerequisite: NUR2270 Lec Hrs = 80  Lab Hrs = 0  Oth Hrs = 160  Fees = 45.95

Course: NUR2274 EMERGENCY NURSING
This course has been developed to meet the needs of the emergency department or critical care nurse in supplementing basic nursing in the emergency area. Prerequisites: Florida RN License, Basic Life Support course (Healthcare Provider Level).

Corequisite: NUR2274 Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Course: NUR2274L EMERGENCY NURSING PRACTICUM
This course will provide the health professional with an opportunity for practice of basic skills needed in basic emergency nursing care and the application of theory in the laboratory, community emergency departments and emergency medical services mobile vehicles. Prerequisites: Florida RN License, Basic Life Support course (Healthcare Provider Level).

Corequisite: NUR2274 Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 240  Fees = 20.95

Course: NUR2275 TRANSITION TO HOME HEALTH NURSING
This course is designed for the practicing RN who is interested in moving from the acute care or long term care setting into home health nursing. This course is open to registered nurses with at least one year acute care experience who are currently employed.

Prerequisite: CAE0062 CAE0216 Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

Course: NUR2275L TRANSITION TO HOME HEALTH NURSING
This clinical course is designed for the practicing RN who is interested in moving from the acute care or long term care setting into home health nursing. The course is open to registered nurses with at least one year acute care experience who are currently employed or who have been employed within the past six months. Prerequisite: Florida Nursing License, minimum 1 year current acute experience.

Prerequisite: NUR2275 Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 64  Fees = 20.95

Course: NUR2292 INTRODUCTION TO CRITICAL CARE NURSING
This course is designed for the registered nurse desiring to enter the area of critical care and who is currently working in another area. It is not designed for nurses currently working in critical care. The course will include topics related to intensive nursing care of patients with pulmonary, neurological, cardiovascular, renal, and metabolic disorders, as well as psychological needs of critically ill patients. Prerequisites: Florida RN License; Basic Life Support course (Healthcare Provider Level); Basic Arrhythmia course or challenge.

Corequisite: NUR2292L Lec Hrs = 128  Lab Hrs = 0  Oth Hrs = 0  Fees = 8.95

Course: NUR2292L CRITICAL CARE NURSING CLINICAL LAB
The clinical course will be provided in a local hospital where the entry-level critical care nurse begins skill building and bedside activities with an assigned preceptor to correlate to didactic
theory. The RN will incorporate nursing assessment, implementation and interventions related to the critical care patient from admission to discharge or end-of-life. Skill building activities focus on critical care policies, procedures and protocols required for critical care nursing. bedside activities focus on organizational skills in performing patient assessment, interventions and documentation in the medical record. Pre-Requisite: Florida RN License; Basic Life Support course (Healthcare Provider Level); Basic Arrhythmia course or challenge.

Corequisite: NUR2292
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 240  Fees = 20.95

NUR2293 BASIC PERIOPERATIVE NURSING
(8)
This program is designed for the learner who is a registered nurse with minimal or no operating room experiences. The goal of the program is to prepare the R.N. for initial employment as an effective member of the surgical team in both the circulating and scrub roles, thus providing quality perioperative nursing care. This theory course will be taught concurrently with the basic perioperative nursing practicum.
Pre or Corequisite: NUR2293L
Lec Hrs = 80  Lab Hrs = 0  Oth Hrs = 0  Fees = 2.00

NUR2293L BASIC PERIOPERATIVE PRACTICUM
(5)
This course is designed to provide laboratory practice and clinical experience for nursing in the operating room, community surgical centers or clinics.
Pre or Corequisite: NUR2293
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 160  Fees = 45.95

NUR2294 CORONARY CARE NURSING
(9)
A comprehensive cardiac course to review and add to the scientific knowledge needed by the coronary care nurse in their practice. Specific skills and competencies shall be developed in the use of equipment and methods of care. Guidelines shall be presented for guiding other members of the health care team in the effective application of the concepts of coronary care. Designed to foster an attitude of striving for excellence in knowledge. Methods and techniques were developed by the Florida Regional Medical Program as a standard. A Coronary Care course certificate is awarded upon successful completion.
This is for the professional nurse. 144 hrs. Lec.
Lec Hrs = 144  Lab Hrs = 0  Oth Hrs = 0  Fees = 12.00

NUR2297 CARDIAC NURSING: BASIC ARRHYTHMIA
(2)
This course will be taught on the Internet in the Virtual Classroom-Web CT and is designed to enhance learning for the licensed health care professionals using a non-traditional teaching mode. Two scheduled classroom sessions will consist of the Orientation to Web-based ECG learning and the written-short answer Final Protored ECG Exam. The web-based instruction will provide basic yet comprehensive information in the fundamentals of cardiac arrhythmias. Content will include anatomy and physiology, basic rate and rhythm calculations, cardiac monitoring as well as the identification of non-lethal and lethal producing arrhythmias. Prerequisites: Florida RN License; Basic Life Support course (Healthcare Provider Level).
Corequisite: NUR2297L
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2297L CARDIAC NURSING: BASIC ARRHYTHMIA
(1)
The clinical course will be provided in a local hospital where the new telemetry nurse will perform the role of monitor technician, to reinforce the didactic concepts learned in the Basic Arrhythmia course. The RN will incorporate nursing interventions related to telemetry patients from the admission process, trouble shooting ECG transmission, to medication administration. Course activities focus on telemetry/progressive care nursing of the adult patient requiring cardiac monitoring. Prerequisites: Florida RN license; Basic Life Support course (Healthcare Provider Level).
Corequisite: NUR2297
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 80  Fees = 20.95

NUR2391 CARE OF THE CRITICALLY ILL NEWBORN
(4)
This course will provide an introduction to the basic needs of the sick or compromised infant and the rationale/theory behind prescribed treatments and care. Units include: thermal environment, assessment, CPR, respiratory disorders, hematological disorders, maternal infant bonding, the dying infant, GI disturbances, oxygen administration, neonatal sepsis, blood gas analysis, cardiac anomalies, nutrition, pharmacology, lab studies, seizure disorders and mechanical ventilation. (target audience: term and level II nursery personnel, labor and delivery nurses and nurses seeking entry into neonatal areas.)
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 64  Fees = 27.00

NUR2392 CRITICAL CARE OF THE PEDIATRIC CLIENT
(5)
This 5 credit course is designed to prepare the professional nurse to enter into practice in the pediatric intensive care setting. The course focuses on assessment skills of the various body systems, pharmacology, and nursing management of the critically ill child. Prerequisite: current Florida nursing license, BCLS-C (Basic rescuer certification).
Lec Hrs = 80  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2801 TRANSITION NURSING IV
(3)
This theoretical course for the LPN covers the following concepts: leadership, team management, legal ethical considerations, problem solving techniques, interviewing techniques and emergency nursing.
Pre or Corequisite: NUR2801L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2801L TRANSITION NURSING IV CLINICAL LAB
(2)
This course for the LPN provides clinical opportunities to develop leadership skills, team management skills, and legal, ethical responsibilities.
Pre or Corequisite: NUR2801
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 112  Fees = 123.10

NUR2810 TRENDS, PRACTICES, AND ROLES
(3)
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
Pre or Corequisite: NUR2810L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2810L TRENDS, PRACTICES, AND ROLES CLINIC
(2)
This course is designed to provide the student with the knowledge necessary to implement the nursing pattern on patients with cardiopulmonary dysfunctions 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.
Pre requisite: NUR2222 NUR2222L
Pre or Corequisite: NUR2810
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2930 COMPARATIVE HEALTH CARE SYSTEMS
(3)
This course provides an opportunity for health care professionals and educators to compare health care systems of other countries with that of the United States. Health care systems, variation in patient care, education of health practitioners facilities and the role of international agencies will be studied.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

NUR2940 NURSING TRANSITION FOR THE NEW NURSES
(4)
This course is for the new registered nurse who seeks to gain additional theoretical experience in the application of nursing knowledge in the care of the acutely ill hospitalized patient.
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
NUR2940C RESPIRATORY CARE CROSS TRAINING FOR NURSES (12)
This course will provide nurses with essential principles of respiratory care, to function in their new roles as a multisilled healthcare professional.
Lec Hrs = 60  Lab Hrs = 0  Oth Hrs = 168  Fees = 27.00

NUR2941C RESPIRATORY CARE FOR NURSES: OXYGEN (2)
This course will teach the students safe handling of oxygen equipment along with a working knowledge of oxygen analyzers. It will also teach proper administration of medications via Twin Jet nebulizer, metered dose inhaler (MDI) and incentive spirometry treatments.
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 28  Fees = 52.95

NUR2944C RESPIRATORY CARE FOR NURSES: TREATMENTS (1)
This course will focus on the proper use of ultrasonic nebulizers, specimen collection and the safe administration of aerosolize medication.
Lec Hrs = 8  Lab Hrs = 0  Oth Hrs = 20  Fees = 0.00

NUR2945L EMERGENCY NURSING: CLINICAL PRACTICUM (1)
The clinical course will be provided in a local hospital where the entry-level critical care nurse requires additional remediation or for a returning nurse who needs minimal skill building and bedside activities with assigned preceptor to correlate to didactic theory. The RN will incorporate nursing assessment, implementation and interventions related to the critical care patient from admission to discharge or end-of-life. Skill building activities focus on critical care policies, procedures and protocols required for critical care nursing. Bedside activities focus on organizational skills in performing patients assessments, interventions and documentation in the medical record.
Corequisite: NUR2292
Lec Hrs = 25  Lab Hrs = 50  Oth Hrs = 0  Fees = 36.00

NUR2946L NURSE INTERNSHIP CLINICAL LAB (6)
This course will cover the clinical application of skills in the care of patients. The content will cover content beyond basic clinical experiences to intern nurses.
Pre or Corequisite: NUR2946
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 28  Fees = 2.00

NUR2940C RESPIRATORY CARE CROSS TRAINING FOR NURSES (12)
This course will provide nurses with essential principles of respiratory care, to function in their new roles as a multisilled healthcare professional.
Lec Hrs = 60  Lab Hrs = 0  Oth Hrs = 168  Fees = 27.00

NUR2941C RESPIRATORY CARE FOR NURSES: OXYGEN (2)
This course will teach the students safe handling of oxygen equipment along with a working knowledge of oxygen analyzers. It will also teach proper administration of medications via Twin Jet nebulizer, metered dose inhaler (MDI) and incentive spirometry treatments.
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 28  Fees = 52.95

NUR2944C RESPIRATORY CARE FOR NURSES: TREATMENTS (1)
This course will focus on the proper use of ultrasonic nebulizers, specimen collection and the safe administration of aerosolize medication.
Lec Hrs = 8  Lab Hrs = 0  Oth Hrs = 20  Fees = 0.00

NUR2945L EMERGENCY NURSING: CLINICAL PRACTICUM (1)
The clinical course will be provided in a local hospital where the entry-level critical care nurse requires additional remediation or for a returning nurse who needs minimal skill building and bedside activities with assigned preceptor to correlate to didactic theory. The RN will incorporate nursing assessment, implementation and interventions related to the critical care patient from admission to discharge or end-of-life. Skill building activities focus on critical care policies, procedures and protocols required for critical care nursing. Bedside activities focus on organizational skills in performing patients assessments, interventions and documentation in the medical record.
Corequisite: NUR2292
Lec Hrs = 25  Lab Hrs = 50  Oth Hrs = 0  Fees = 36.00

OCA0450 SPREADSHEET AND DATABASE APPLICATION (2)
The purpose of this course is to provide an introduction to computers and their significance in today's business workplace. An emphasis is placed on the use of spreadsheet software and its importance in compiling financial reports and statistical data. This course also acts as a foundation for all business education programs as it incorporates keyboarding, mathematical calculations, consumer economics, human relations, and job application procedures.
Lec Hrs = 25  Lab Hrs = 50  Oth Hrs = 0  Fees = 36.00

OCA0451 SPREADSHEET AND DATABASE APPLICATION (2)
The purpose of this course is to provide an introduction to computers and to develop entry-level skills for computer-related occupations using spreadsheets and databases and text-editing software. This course also acts as a foundation for all business education programs as it incorporates keyboarding, mathematical calculations, consumer economics, human relations, and job application procedures.
Lec Hrs = 25  Lab Hrs = 50  Oth Hrs = 0  Fees = 36.00

OCE1001 INTRODUCTORY OCEANOGRAPHY (3)
An integration of the four classic disciplines of the ocean sciences: geological oceanography, chemical oceanography, physical oceanography, and biological oceanography. Course will stress the interdisciplinary nature of the ocean sciences and focus on the basic principles governing these disciplines, and the effect of each on man. Meets Area 4B general education requirements for the A.A. degree. Terms I, II, and III.
Placement by Testing Department or Pre or Corequisite: OCE1001
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

OCE1001L OCEANOGRAPHY LABORATORY (1)
Laboratory methods for the Ocean Sciences. Meets area 4C general education requirements for the A.A. degree. Meets The 4 or 5 general educational requirements for the A.S. degree. One, two-hour laboratory weekly. Special fee is charged.
Placement by Testing Department or Pre or Corequisite: OCE1001
Lec Hrs = 16  Lab Hrs = 32  Oth Hrs = 0  Fees = 20.00

OFT0010 OFFICE SKILLS TRAINING I (2)
The purpose of this course is to prepare students for employment as general office clerks, typists, file clerks, office systems clerks, government records clerks, and clerical office trainees. Topics include typing, filing, calculation skills, telephone skills, and word processing.
Lec Hrs = 25  Lab Hrs = 50  Oth Hrs = 0  Fees = 36.00

OFT0011 OFFICE SKILLS TRAINING II (2)
The purpose of this course is to prepare students for employment as clerk typists, clerks, information clerks, data
This course reviews the techniques needed in a clinical orientation to vision care (2)

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT1110 PHYSICAL AND GEOMETRIC OPTICS

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: OPT1110 OPT1210 OPT1330

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT1110L PHYSICAL AND GEOMETRIC OPTICS LAB

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 = 10.00

OPT1150 OPHTHALMIC LENSES

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 designs. ANSI and F.D.A. standards; prescription ordering; verification procedures; and absorptive lenses are presented. Low vision devices and occupational specialty lenses will be discussed.

Pre requisite: OPT1110 OPT1110L OPT1210

Corequisite: OPT1150L OPT2090

Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT1150L OPHTHALMIC LENSES LAB

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.

Pre requisite: OPT1110 OPT1110L OPT1210

Pre or Corequisite: OPT1150

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 10.00

OPT1210 ANATOMY AND PHYSIOLOGY OF THE EYE

This course provides a review of the structures 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

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

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.

Pre requisite: OPT1150 OPT1150L OPT2090 OPT2879

Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT1450L OPHTHALMIC DISPENSING LAB

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.

Pre requisite: OPT1150 OPT1150L OPT1330 OPT2375

Pre or Corequisite: OPT1450 OPT2500 OPT2500L OPT2800L

Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 10.00

OPT2060 OPHTHALMIC MANAGEMENT POLICY AND PROCEDURES

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.

Pre requisite: OPT2800L OPT2875

Pre or Corequisite: OPT2876

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT2090 ORIENTATION TO VISION CARE CLINIC

This course provides an introduction to the Broward Community College Vision Care Clinic. Students will apply technical skills acquired in previous course work. Recording of clinical data, administrative procedures and techniques in patient handling under the close supervision of clinic instructors and 5th semester students.

Pre requisite: OPT1110 OPT1210 OPT1330

Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 32 Fees = 0.00

OPT2222 OCULAR PATHOLOGY AND PHARMACOLOGY

Theory and terminology of visual and systemic disorders that affect vision. Introduces the student to the general concepts of disease and the processes by which diseases evolve. The specific disorders that may occur in various parts of the eye and ocular adnexa are discussed in detail. The student will become familiar with the Physicians Desk Reference (PDR), diagnostic, and therapeutic pharmaceutical agents used in vision care.

Pre requisite: OPT2350, OPT2801.

Pre requisite: OPT2375 OPT2800L

Pre or Corequisite: OPT2350 OPT2801L

Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT2223 OCULAR PATHOLOGY AND PHARMACOLOGY

Continuation of OPT2222: Theory and terminology of visual and systemic disorders that affect vision. Introduces the student to the general concepts of disease and the processes by which diseases evolve. The specific disorders that may occur in various parts of the eye and ocular adnexa are discussed in detail. The student will become familiar with diagnostic and therapeutic pharmaceutical agents used in vision care.

Pre requisite: OPT2222

Pre or Corequisite: OPT2351 OPT2802

Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT2287 OPHTHALMIC MEDICAL PRACTICUM

Externship in an approved ophthalmic practice. This is the most advanced clinical education and successful completion will ensure that the student is competent upon graduation to assume all of the responsibilities required of an Ophthalmic Technician. The student will enhance their knowledge of advanced duties and responsibilities an ophthalmic medical assistant, keyboarding clerks, invoicing clerks, entry clerks, coding clerks, invoicing clerks, clerk typist assistant, keyboarding clerks, or to provide supplemental training for persons previously or currently employed in this occupational area.
Office. Emphasis will be placed on continuing the development of skills in tonometry, visual fields, A and B scan ultrasound, and photo-documentation. Skills in assisting in triage and laboratory diagnosis of eye disease, and outpatient surgical assisting will be obtained. This course is required to fulfill requirements for clinical experience by the national accrediting agencies.

Prerequisite: OPT2223 OPT2351 OPT2802 OPT2941
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 240 Fees = 20.95

OPT2350 ADVANCED CLINICAL PROCEDURES I (1)
Theory and terminology of advanced ophthalmic medical procedures. Students will learn oculomotor photography, visual field testing, and internal and external examination procedures normally performed by an ophthalmic technician.
Prerequisite: OPT2375 OPT2800L
Pre or Corequisite: OPT2421
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 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 phoroptor, 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 surfaced and finishing procedures. Students acquire knowledge to arrange single vision and multifocal lenses, use sensometers 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 sensometers 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 = 50.00

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: OPT2421
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT2421L 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 = 50.00

OPT2460 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; 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 = 0 Oth Hrs = 80 Fees = 12.00

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 supervision of clinical staff in dispensing glasses to patients of the Vision Care Clinic. Students will practice advanced 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.
Corequisites: OPT2421, OPT2831, OPT2876.
Prerequisite: OPT2420 OPT2460 OPT2875
Pre or Corequisite: OPT2421 OPT2831L OPT2876
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 120 Fees = 8.95

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 OPT1450
Pre or Corequisite: OPT2500L
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OPT2500L 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 OPT1450L
Pre or Corequisite: OPT2500
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 25.00

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 OPT1450L
Pre or Corequisite: OPT2375 OPT2500L OPT2879
Lec Hrs = 0 Lab Hrs = 80 Oth Hrs = 80 Fees = 20.95

OPT2801L VISION CARE CLINIC II (3)
Development of skills in tonometry, visual fields, A and B scan ultrasound, and photo-documentation. The student will follow the patient through the entire cycle of vision care under the supervision of the clinical staff.
Prerequisite: OPT2375 OPT2500L OPT2800L
Pre or Corequisite: OPT2222 OPT2350 OPT2940
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 160 Fees = 20.95
OPT2802 VISION CARE CLINIC III  
(3) 
Continuation of OPT2811L: Development of additional skills in 
tonometry, visual fields, A and B scan ultrasound, photo-
documentation, vision therapy, low vision, aseptic techniques, 
eye emergencies, assisting in triage and laboratory diagnosis of 
eye disease, and outpatient surgical assisting. The student 
will follow the patient throughout the entire cycle of vision care 
under the supervision of the clinical staff. 
Prerequisite: OPT2222 OPT2350 OPT2801L OPT2940 
Pre or Corequisite: OPT2223 OPT2351 OPT2941 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 160  Fees = 20.95

OPT2830L CONTACT LENS CLINIC I  
(3) 
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 pathologies. 
Prerequisite: OPT2500 OPT2500L OPT2800L 
Pre or Corequisite: OPT2420 OPT2460 OPT2875 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 80  Fees = 20.95

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 = 20.95

OPT2875 OPHTHALMIC DISPENSING PRACTICUM I  
(3) 
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 OPT2420L OPT2830L 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 120  Fees = 20.95

OPT2876 OPHTHALMIC DISPENSING PRACTICUM II  
(3) 
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 = 20.95

OPT2879 REFRACTOMETRY PRACTICUM  
(2) 
PRACTICUM for OPT2375. Practical procedures used in 
determining the powers of corrective lenses in relation to a 
patient's refraction error. The student will learn to use the 
Phoroptor, 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 OPT1120 OPT1330 
Pre or Corequisite: OPT1150 OPT1150L OPT1330 OPT2375 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 96  Fees = 20.95

OPT2910 DIRECTED RESEARCH  
(2) 
Students will be introduced to the theory and terminology of 
medical research. Under the direct supervision of the clinical 
staff the student will select an area to do extended research. 
The areas may include but are not limited to, assisting, and 
other advanced ophthalmic medical topics. 
Prerequisite: OPT2223 OPT2350 OPT2801L OPT2940 
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 40  Fees = 0.00

OPT2940 OPHTHALMIC MEDICAL PRACTICUM  
(4) 
Externship is an approved ophthalmological practice. The 
student will gain a working knowledge of the basic duties and 
responsibilities of a technician in a medical office. Emphasis 
will be placed on the development of skills in tonometry, visual 
fields, A and B scan ultrasound, and photo-documentation. 
Prerequisite: OPT2800L OPT2941 OPT2879 
Pre or Corequisite: OPT2222 OPT2350 OPT2801L 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 160  Fees = 20.95

OPT2941 OPHTHALMIC MEDICAL PRACTICUM II  
(5) 
Externship is an approved ophthalmological practice. The 
student will gain a working knowledge of advanced and more 
complete duties and responsibilities of a technician in an 
ophthalmic medical office. Emphasis will be placed on 
consuming the development of skills in tonometry, visual fields, 
A and B scan ultrasound, and photo-documentation. Skills in 
assisting in triage and laboratory diagnosis of eye disease, and 
onoutpatient surgical assisting will be obtained. 
Prerequisite: OPT2222 OPT2350 OPT2801L OPT2940 
Pre or Corequisite: OPT2223 OPT2351 OPT2802 
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 200  Fees = 20.95

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, 
OH2511 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. Instructor approval 
or 
Prerequisite: ORH1523 
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ORI1000 INTRODUCTION TO ORAL INTERPRETATION  
(3) 
Upon completion of this course, the student should have 
gained a knowledge of and presentational ability in the art of 
oral interpretation as applied to prose, poetry, drama and 
reader's theatre. Meets Area 7 AA degree general education 
requirements. 
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ORT0001 NEW STUDENT ORIENTATION  
(0) 
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 of the college. This course will cover the different disciplines of degrees administered, the various course formats and the process of searching/registering for classes. Further emphasis will be placed on areas including academic standing, test scores, college preparatory courses, catalog year, as well as other topics enabling students to successfully navigate their college experience.

Lec Hrs = 3  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ORT0002 HONORS ORIENTATION**

Continuation of ORT0001 for Honors students.

Lec Hrs = 3  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ORT0003 PREP ORIENTATION**

Continuation of ORT0001 for students in three prep areas.

Lec Hrs = 3  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ORT0004 CYBER ORIENTATION**

An online continuation of ORT0001.

Lec Hrs = 3  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**ORT0005 SOLAR ORIENTATION**

Continuation of ORT0001 for speakers of other languages.

Lec Hrs = 3  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**OST1100L KEYBOARDING & DOCUMENT PROCESSING I**

This course offers an introduction to the keyboard with development of fundamental techniques, skil development, and simple correspondence and other business keyboarding and document processing. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 35 words per minute with 5-error cutoff on 5-minute timed writings are required.

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1103 BASIC KEYBOARDING, PART 1**

This course offers an introduction to the keyboard with development of fundamental techniques. Laboratory hours are required in addition to the scheduled course hours. Minimum completion speed of 21 words per minute with a 5-error cutoff on 2-minute timed writings using touch technique are required.

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1104 BASIC KEYBOARDING, PART 2**

This keyboarding credit includes skill development, simple correspondence and other business keyboarding. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 27 words per minute with 5-error cutoff on 3-minute timed writings are required.

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1105 BASIC KEYBOARDING, PART 3**

This keyboarding credit includes skill development, business correspondence, business forms, and manuscripts. It begins production development. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 35 words per minute with 5-error cutoff on 5-minute timed writings are required.

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1110L KEYBOARDING AND DOCUMENT PROCESSING I**

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: OST1100L

Lec Hrs = 0  Lab Hrs = 48  Oth Hrs = 0  Fees = 25.00

**OST1113 INTERMEDIATE KEYBOARDING, PART 4**

This keyboarding credit includes skill development which includes speed building and accuracy improvement. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 39 words per minute with 4-error cutoff on 5-minute timed writings are required.

Prerequisite: OST1105

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1114 INTERMEDIATE KEYBOARDING, PART 5**

This keyboarding credit includes skill development which includes speed building, accuracy improvement, refining business correspondence, reports and tables. Laboratory hours are required in addition to the scheduled course hours. A minimum completion speed of 42 words per minute with 4-error cutoff on 5-minute timed writings are required.

Prerequisite: OST1113

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1115 INTERMEDIATE KEYBOARDING, PART 6**

This keyboarding credit includes skill development with emphasis placed on business forms, correspondence, 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.

Pre or Corequisite: OST1113  OST1114

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1130 BUSINESS ENGLISH**

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**

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 = 20.00

**OST1795 TELECOMMUNICATIONS**

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 = 8.00

**OST1811C DESKTOP PUBLISHING**

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 = 28.00

**OST1831 WINDOWS / GRAPHICAL ENVIRONMENT**

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, multitasking, and optimizing Windows.

Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 8.00

**OST1841 INSTRUCTIONAL DESIGN FOR MULTIMEDIA**

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
Course Descriptions

OST2053 SUCCESSFUL JOB SEARCH (1)
This course presents a hands-on, interactive study of interview and employability skills that focus on the keys to career success. The curriculum accentuates the need for goal setting and life achievement. Topics include occupational skills, positive self-image, attitude, setting priorities, time management, resume writing, and tracking down career leads. A unit on ethics and relationships is included.
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. Discussion includes intercultural work groups, nonverbal skills, and electronic mail as a part of communication on the job.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

OST2431 LEGAL OFFICE TECHNIQUES I (3)
This course provides an introduction to legal terminology, the typing of legal documents and pleadings, and office procedures for law firm employees.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

OST2432 LEGAL OFFICE TECHNIQUES II (3)
A further study of legal terminology with emphasis on preparation of legal papers.
Prerequisite: OST2431
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 5.00

OST2446C 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.
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, and the changing skills and a nature of work demanded in the workforce. The efficient handling of office matters, such as scheduling appointments, customer/client relations, managing office operations, preparing legal and correspondence, coordinating meetings/travel, and career planning and advancement are covered. Emphasis is placed on the managerial functions of the office.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

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 = 15.00

OST2611C MEDICAL TRANSCRIPTION (3)
This course emphasizes fundamentals of transcribing various medical reports, discharge summaries, admissions records, history and physical reports, special delivery notes and other medical correspondence. Medical vocabulary and basic language skills with grammar, punctuation, spelling and proofreading will be emphasized.
Prerequisite: HSC1531
Lec Hrs = 40 Lab Hrs = 8 Oth Hrs = 0 Fees = 20.00

OST2621L 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 = 20.00

OST2764 INFORMATION/WORD PROCESSING APPLICATION (3)
This course introduces the student to the operations of word processing software and emphasizes application skills such as processing business correspondence, reports, tables, macros, flyers, and mail merge. Laboratory hours are required in addition to the scheduled course hours. Keyboarding speed of 40 words per minute is recommended.
Lec Hrs = 0 Lab Hrs = 48 Oth Hrs = 0 Fees = 10.00

OST2825C DOCUMENT DESIGN, LAYOUT AND SCANNING (3)
This course provides hands-on applications in designing, laying out and scanning documents for newsletters, brochures, flyers, manuals, advertisements and catalogs. Through principles of effective design, students can makeover documents from their own work areas.
Lec Hrs = 16 Lab Hrs = 64 Oth Hrs = 0 Fees = 28.00

OST2826C PRESENTATION GRAPHICS (3)
This course provides hands-on applications using graphics and presentation software with draw, paint, chart and show programs. Through transformation of typography and graphic clip art, students will create printed documents and computer-generated slide shows with CD-ROMs.
Lec Hrs = 16 Lab Hrs = 64 Oth Hrs = 0 Fees = 28.00

OST2940L MULTIMEDIA PRACTICUM (4)
This comprehensive course (recommended to be taken concurrently with Multimedia Project Management) will give the student experience creating work for someone else (content expert). The student will gain work experience in the field by being placed in an internship. The experience may come from within or outside the college. In addition, the student will create an interactive portfolio of work to show potential employers.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OST2945 MULTIMEDIA PROJECT MANAGEMENT (3)
This course is recommended to take concurrently with Multimedia Practicum 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 multimedia development. 
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

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. Course may be repeated three times. 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 the registration approval.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

OTA0001 OFFICE SUPPORT TECHNOLOGY I (2)
The purpose of this course is to prepare students for employment as office support technicians in the field of word processing and/or related occupations. The students will be able to edit and produce written communications using word processing software and act as information processing.
OTA0002 OFFICE SUPPORT TECHNOLOGY II  (2)
The purpose of this course is to prepare students for employment in the field of word processing and related occupations using more advanced skills as office support technicians. The students will be able to proficiently edit and create written communications using word processing software and act as information processing operators on a windows-based microcomputer. Machine transcription and payroll processing skills will be enhanced with an emphasis throughout on quality performance in the learning environment in the workshop.

OTA0323 OFFICE COMMUNICATION III  (5)
This course is designed to provide an introduction to the legal aspects of business. Topics include business law concepts, forms of business ownership, insurance awareness, governmental regulations, management functions, human resources management issues, and career development. The use of computers is an integral part of this program.

OTA0475 LEGAL ASPECTS OF BUSINESS  (2)
This course is designed to provide an introduction to the legal aspects of business. Topics include business law concepts, forms of business ownership, insurance awareness, governmental regulations, management functions, human resources management issues, and career development. The use of computers is an integral part of this program.

OTA0476 LEGAL OFFICE I  (2)
The student will become familiar with legal terminology and perform specialized legal office procedures such as preparing legal documents, maintain and utilize a legal reference library, proofread legal documents and perform specialized records management functions specific to the legal field.

OTA0477 LEGAL OFFICE II  (2)
This course expands the competencies learned in Legal Office I. Students are required to perform higher level thinking and decision making and to use technology as a resource to efficiently perform systematic procedural tasks and to produce quality work in an efficient manner. Students will begin transcribing legal documents from machine dictation.

OTA0478 LEGAL OFFICE III  (2)
This course expands the competencies learned in Legal Office II and is designed to develop skill in transcribing legal documents from machine dictation. Students will use technology to produce high quality employment portfolios, research job opportunities, and compile and disseminate job-seeking documents.

OTA0612 MEDICAL SECRETARY I  (2)
The purpose of this course is to prepare students to perform secretarial duties that require knowledge of basic medical terminology and medical office procedures. Instruction includes an introduction to basic medical terminology, filing, and appointment scheduling as it relates to the medical field, and the development of basic skills in the keying of business letters and other office correspondence.

OTA0613 MEDICAL SECRETARY II  (2)
The purpose of this course is to prepare students to perform secretarial duties in a medical office environment utilizing knowledge of basic medical terminology. Instruction includes the introduction of transcription techniques so the student will be comfortable transcribing paragraphs that include medical terminology. The student will become familiar with completing insurance and claim forms and the scheduling of appointments in a medical setting.

OTA0614 MEDICAL SECRETARY III  (5)
The purpose of this course is to prepare students to perform secretarial, administrative, and managerial duties in a medical office environment with an advanced level of competency. The content includes a thorough knowledge of medical terminology, accurate transcription of various medical documents from machine transcription, production of quality work using advanced features of business software applications, use of technology to develop office management skills, and production of professional job application documents.
course is to provide the student with an overview of public administration with an emphasis on the political context.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**PEL1041C RECREATION ACTIVITIES**  
(2)  
An overview of outdoor and indoor games and activities for various age groups in a recreational setting.

Lec Hrs = 16  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

**PEL1111 BEGINNING BOWLING**  
(1)  
The basic techniques for scoring and learning consistency of form in address, approach, swing, release, and follow through in bowling performance skills. (Shoes and ball provided.)

Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 31.00

**PEL1121 BEGINNING GOLF**  
(1)  
Introduces the Golf swing and provides instruction in the use of irons and woods, plus putting and approach shots. Rules and courtesies of the game are covered. Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL1131 BEGINNING POCKET BILLIARDS**  
(1)  
Includes the science and techniques of standard Pocket Billiard games. Coeducational. Fee assessed at site of each class.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**PEL1141 BEGINNING ARCHERY**  
(1)  
To provide the student with opportunities to learn Archery equipment selection and care, basic safety considerations, techniques and fundamentals of shooting. Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

**PEL1211 SOFTBALL**  
(1)  
Coeducational. Students furnish gloves.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL1321 VOLLEYBALL**  
(1)  
Students learn the basic techniques of power Volleyball such as Bumping, Setting, Spiking, Blocking and Overhand serve and apply them in exciting, fast action power Volleyball games. Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL1341 BEGINNING TENNIS**  
(1)  
Concentration on learning the basic skills of forehand, backhand, and serve. Scoring and rules of the Single and Doubles are covered with an opportunity to apply them in game situations. (Student must furnish racquet and balls.)

Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL1420 HANDBALL & PADDLEBALL**  
(3)  
Coeducational (student must supply own gloves and paddles).

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**PEL1441 3 WALL RACQUETBALL**  
(1)  
Instruction in Racquetball. Coeducational. Students must provide own Racquets and Balls, and Safety Glasses.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL1621 BASKETBALL**  
(1)  
Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL2112 INTERMEDIATE BOWLING**  
(1)  
Emphasis is placed upon self improvement following the beginning Bowling course. Advancing by learning "Spot" Bowling and recognizing through analysis, to detect your own Bowling inconsistencies. (Shoes and Ball are provided.)

Prerequisite: PEL1111 or instructor's approval. Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 31.00

**PEL2122 INTERMEDIATE GOLF**  
(1)  
Provides individualized help in correcting problems in golf swing and introduces advanced shots and techniques. The majority of the course provides extensive opportunities for guided play on a golf course. Coeducational. Prerequisite: PEL1121 or instructor's approval. Fee assessed at site of each class.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**PEL2132 INTERMEDIATE BILLIARDS**  
(1)  
Course will include advanced techniques in Snooker, One Pocket Bank Pool Rotation, Cribbage and Three-cushion Billiards. Prerequisite: PEL1131 or instructor's approval. Fee assessed at site of each class.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**PEL2322 INT VOLLEYBALL II**  
(1)  
This course continues the techniques of power volleyball. Students will project the skills of bumping, setting, spiking, blocking, and gain insight into the strategy of good offense and defense. Advanced skills and strategies are used. Prerequisite: instructor's approval or PEL1321.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEL2342 INTERMEDIATE TENNIS**  
(1)  
Reviews Forehand, Backhand, and Serve and concentrates on volley, Approach Shots, Lob, and Overhead. Strategy and tactics of Doubles and Singles play are emphasized. Prerequisite: PEL1341 or instructor's approval. (Student must furnish own Racquet and Balls). Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 0.00

**PEM1011 THERAPEUTIC PHYSICAL EDUCATION**  
(1)  
Students will participate in a specialized activity program designed for the individual with consultation from the student and from a Physician or Physical Therapist if necessary. Department Head approval required.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEM1116 SLIMNASTICS**  
(2)  
Students will discuss and apply information on Exercising, Sensible Dieting, Weight Control, Nutrition, Energy Input and Output as it relates to weight control, and discuss and practice good posture habits, and relaxation techniques.

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. Coeducational.

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEM1131 WEIGHT TRAINING**  
(2)  
Students will be introduced to Weight Training Principles, both past and present, and apply these principles in a well-organized Weight Training Program which will lead to an increased strength. Students will also increase their wellness knowledge.

Lec Hrs = 16  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00

**PEM1141 AEROBIC MOVEMENT**  
(2)  
Students will improve cardiorespiratory fitness through activity that combines exercise and rhythmical movement and increases wellness knowledge.

Lec Hrs = 16  Lab Hrs = 32  Oth Hrs = 0  Fees = 2.00
PEM1181 WALK/JOG/RUN (2)
Students will develop and carry out a personalized Walking, Jogging, or Running program by applying information on equipment selection, physiology, mechanics, psychology, training principles, conditioning, program guidelines, environmental concerns, and injury prevention.
Lec Hrs = 16 Lab Hrs = 32 Oth Hrs = 0 Fees = 2.00

PEM2462 INTERMEDIATE FENCING (FOIL, SABRE, (1)
Advanced Fencing techniques of Foil, Sabre and Epee. Coeducational. Instructor's approval or Prerequisite: PEM1461
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 2.00

PEN1121 BEGINNING SWIMMING (1)
Coeducational.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 2.00

PEN1171 AQUATIC FITNESS (2)
Students will participate in various aquatic exercises which will increase endurance and versatility in water and, by doing so, maintain or increase their physical health and fitness levels. The activities include exercises for both swimmers and non-swimmers. Students will increase their wellness knowledge.
Lec Hrs = 16 Lab Hrs = 32 Oth Hrs = 0 Fees = 2.00

PEN1211 BEGINNING WATER SKIING (1)
Learn to ski on two skis, one ski, and a kneeborder. Coeducational.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 62.00

PEN1231 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. Coeducational.
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. Coeducational.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 5.00

PEN2122 INTERMEDIATE SWIMMING (1)
Coeducational.
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.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 125.00

PEO1011C TEAM SPORTS AND ACTIVITIES (2)
An overview of team sports and activities. Concepts appropriate for a variety of ages.
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. Not an activity course. Elective credit only.
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.
Lec Hrs = 16 Lab Hrs = 32 Oth Hrs = 0 Fees = 5.00

PEO2231 TEACHING SAILING (1)
This program enables a qualified person to teach the basic Sailing at the assistant instructor level and assist in the operation of an on-the-water training facility. Not classified as an activity course. Elective credit only.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

PET1103 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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PET2084 PERSONAL FITNESS CONCEPTS FOR TEACHERS (3)
This course is designed for present and prospective middle and high school health and physical education teachers. It covers the basic principles of exercise, various fitness programs, fitness assessment, nutrition, weight management, cardiovascular health, managing stress, and HIV/AIDS. Lectures will include hands-on activities and demonstrations. This course will not satisfy the General Education Requirements for the A.A. or A.S. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PET2622 CARE/PREVENTION/ATHLETIC INJURIES (2)
Develops competence, knowledge and skill in the prevention and care of athletic injuries.
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PGY1800C DIGITAL PHOTOGRAPHY (3)
This is a Graphic Design course formulated to develop skills with a digital camera. Students will learn through the use of a digital camera how to take photographs for use in the designs they create for print, web and multimedia. Students will learn to properly expose, compose, and use effective lighting in the making of photographs. The use of natural and artificial lighting will be used in portraiture, product and outdoor photography. Prerequisite: PGY1801C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 65.00

PGY1801C DIGITAL IMAGING (3)
This is a graphic design course formulated to develop skills in digital imaging. Students will learn through the use of the computer how to create, edit and manipulate digital images from scanned photographs and artwork. Students will utilize retouching techniques to modify, enhance and reshape images, apply special effects, adjust color balance, manage files, and prepare their work for print output and web/electronic presentation. 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 = 65.00

PGY2401C PHOTOGRAPHY I (3)
Basic procedures of black and white still camera work, developing, and printing. Emphasis on intensifying visual perception and analysis of photographs as Art and record. Student will supply 35mm camera, film, and paper. Instructor's approval or Prerequisite: PGY2401C
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 20.00

PGY2410C PHOTOGRAPHY II (3)
The application of the 35mm camera to specially directed individual projects. Emphasis on the use of photography in documenting the social landscape. Student will supply 35mm camera, film, and paper. Instructor's approval or Prerequisite: PGY2401C
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 20.00
**PGY2610 PHOTO JOURNALISM**
(4)
A production class in periodical and press photography. Students will produce picture essays which will serve as a basis for class discussion. Emphasis is on the form and content of reportorial B&W photographs, their production, and their relationship to American society. The student will supply a 35mm camera, film and paper. As part of the course, students will have an opportunity to shoot for campus publications. Instructor’s approval. Special fee charged.
Lec Hrs = 48  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

**PGY2806C FINE ARTS DIGITAL PHOTOGRAPHY**
(4)
This course is a Visual Arts class formulated to introduce and demonstrate the necessity of the necessary skills that will enable 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 Pre-requisite: PGY2401C
Lec Hrs = 32  Lab Hrs = 64  Oth Hrs = 0  Fees = 45.00

**PGY2850C DIGITAL VIDEO/AUDIO EDITING**
(3)
Concepts and techniques of video/audio production for recording. Using full-motion video camera and video editing and sound editing software, students will produce video and sound modules for inclusion in multimedia projects. Video formats, signals, compression standards, capture and equipment will be emphasized. Sound formats including compression standards, sampling, resource management, software and equipment selection will be studied. Copyright issues will be discussed.
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

**PGY2905 INDEPENDENT STUDY: PHOTOGRAPHY**
(3)
A directed, independent study course available to both majors and non-majors who wish to investigate a particular problem related to the photographic process. Exceptions to Prerequisite will be considered by the Art Department Head. Instructor’s approval or
Prerequisite: PGY2401C PGY2410C
Lec Hrs = 32  Lab Hrs = 96  Oth Hrs = 0  Fees = 20.00

**PHI1100 INTRODUCTORY LOGIC**
(3)
Study of the principles and evaluation of critical thinking including identification and analysis of fallacies, as well as valid reasoning. Traditional and symbolic logic will be considered and foundations will be laid for further study in each area. Meets Area 2F general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**PHI2010 INTRODUCTION TO PHILOSOPHY**
(3)
An introduction to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, and specific problems in philosophy. Meets Area 2F general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

**PHI2600 INTRODUCTION TO ETHICS**
(3)
A study of the basic concepts and principles of morals, values and judgments that govern human actions, as well as various ethical theories. Meets Area 2F general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
PHT1200L INTRODUCTION TO PHYSICAL THERAPY LAB (1)
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 patient for 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 (2)
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 of effective documentation and discharge planning are discussed. Problem-solving skills are detailed.
Preerequisite: PHT1103 PHT1200
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PHT1211L DISABILITIES AND THERAPEUTIC PROCEDURES LAB (2)
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.
Preerequisite: PHT1103L PHT1200L
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 50.00

PHT1300 SURVEY OF PATHOLOGICAL DEFICITS (4)
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 concomitant conditions, 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: PHT1300
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PHT1350 BASIC PHARMACOLOGY FOR PHYSICAL THERAPIST 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: PHT1300
Pre or Corequisite: PHT1211
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PHT1801L 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 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.
Preerequisite: BSC1086 PHT1211
Corequisite: PHT1020
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 120 Fees = 70.95

PHT2120 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. Joint structure and function including tests and measures for ROM and muscular strength are reintroduced. Special testing procedures, joint play and palpation are introduced which aid the student in understanding pathological gait patterns.Orthotic interventions for the spine and extremities are presented.
Prerequisite: PHT1020
Corequisite: PHT2120L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

PHT2120L APPLIED KINESIOLOGY LAB (1)
Laboratory sessions for Applied Kinesiology (PHT2120) are designed to provide opportunities for the students to practice the skills of goniometry and manual muscle testing along with special testing procedures. Observation of normal and pathological gait patterns as well as analysis of UE and LE movement patterns are performed. Interventions are developed to address functional deficits. Palpation of surface anatomy and review of anatomical/bony landmarks occurs. Through completion of case studies the student correlates patient problems related to various pathologies with their deficits in functional activities and gait. Competency evaluations are completed.
Prerequisite: PHT2224L
Pre or Corequisite: PHT2120
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 50.00

PHT2162 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: PHT1020 PHT2224
Corequisite: PHT2810L
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
**PHT2203 MANUAL TECHNIQUES I** (3)
This course will provide the student with an in-depth view of the history, theory, terminology, physiology, pathology, and basic techniques used during stages of rehabilitation. Course includes aspects of ethics, law, business and marketing in the field of massage. Prerequisite: A.S. degree in Physical Therapist Assisting.
Pre or Corequisite: PHT2203L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**PHT2203L CLINICAL PRACTICUM IN MANUAL TECHNIQUES** (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: PHT2203
Lec Hrs = 0 Lab Hrs = 60 Oth Hrs = 0 Fees = 25.00

**PHT2204 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

**PHT2204L CLINICAL PRACTICUM IN MANUAL TECHNIQUES II** (2)
This course provides an advanced laboratory experience incorporating hands-on techniques and sequences to balance the various energy patterns of the physical body in a supervised setting.
Prerequisite: PHT2203 PHT2203L
Pre or Corequisite: PHT2204
Lec Hrs = 0 Lab Hrs = 60 Oth Hrs = 0 Fees = 25.00

**PHT2224 DISABILITIES & THERAPEUTIC PROCEDURES II** (3)
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 = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**PHT2224L DISABILITIES & THERAPEUTIC PROCEDURES II LAB** (2)
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 are expected to demonstrate competency in developing and carrying out an appropriate therapeutic exercise program including effective documentation.
Prerequisite: PHT1103L PHT1200L
Pre or Corequisite: PHT1211L PHT2224
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 50.00

**PHT2704 REHABILITATION PROCEDURES** (3)
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: PHT2931
Corequisite: PHT2704L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**PHT2704L REHABILITATIVE PROCEDURES LAB** (1)
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 = 50.00

**PHT2810L CLINICAL PRACTICE II** (6)
Course involves student assignment to local clinical facility. Includes scheduled class meeting 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 = 360 Oth Hrs = 360 Fees = 70.95

**PHT2820L CLINICAL PRACTICE III** (5)
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 areas of strength/weaknesses with appropriate target dates and methods of amelioration where necessary. Students receive a satisfactory/fail grade.
Prerequisite: PHT2810L PHT2931
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 300 Fees = 70.95

**PHT2931 TRANSITION SEMINAR** (2)
A discussion and presentation seminar course on legal and ethical issues, interpersonal skill refinement, employment techniques, quality assurance, and career development. Discharge planning concepts are reviewed. Empathy for patients and enhanced understanding of the challenges of a...
disability are explored through a community advocacy project. A capstone project is completed to assess entry level preparation. The course also provides a comprehensive curriculum review and presents details on applying for licensure as students prepare for the transition to the workplace. Prerequisite: PHT2120 PHT2162
Pre or Corequisite: PHT2704
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY1001 APPLIED PHYSICS (3)
General physics course accompanied by an optional laboratory. Contents: mechanics, electricity, and magnetism. Intended for students in general education and technical fields. Students majoring in a technical field should take PHY1001 concurrently with PHY1001L. Meets area 4B general education requirements for the A.A. degree. Meets areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY1001
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY1001L APPLIED PHYSICS LAB (1)
Laboratory which meets for two hours per week for the purpose of demonstrating and verifying the theories of mechanics, electricity and magnetism. The concept of heat is introduced and experiments are performed to illustrate this concept. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY1001
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

PHY2048 GENERAL PHYSICS WITH CALCULUS I (4)
Part one of a two term comprehensive course in physics involving the use of calculus in problem solving. Topics include mechanics, heat, wave motion and sound. Four hours weekly. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2048
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY2048L GENERAL PHYSICS WITH CALCULUS I LAB (1)
Laboratories designed to accompany PHY2048. One two hour period each week. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2048
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

PHY2049 GENERAL PHYSICS WITH CALCULUS II (4)
The second part of a two term physics course employing the use of calculus. Topics covered during this term are electricity, magnetism, and optics. Four hours weekly. Meets Area 4B general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2048
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY2049L GENERAL PHYSICS WITH CALCULUS II LAB (1)
A continuation of laboratory experiences chosen to coincide with the topics of electricity, magnetism, optics. One two hour period per week. Special fee charged. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2048
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

PHY2053 GENERAL PHYSICS I (3)
A general physics course employing algebra and trigonometry to explain the quantitative aspects of mechanics, properties of matter, heat and sound. Three hours weekly. Meets Area 4B general education requirements for the A.A. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2053
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY2053L GENERAL PHYSICS I LAB (1)
Laboratories designed to accompany the topics under study in PHY2053. One two hour period per week. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Special fee is charged. Placement by Testing Department or Pre or Corequisite: PHY2053
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

PHY2054 GENERAL PHYSICS II (3)
The second part of a two term physics course employing algebra and trigonometry. Topics covered during this term are electricity and magnetism, optics, and special relativity and quantum theory. Three hours weekly. Meets Area 4B general education requirements for the A.A. degree. Placement by Testing Department or Pre or Corequisite: PHY2054
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. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: PHY2054
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 10.00

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 Pre or Corequisite: MAT1033
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PHY2464 ACOUSTICS (3)
A survey of basic topics in the physical properties of sound and music, including an in-depth study of wave motion, pitch, timbre intensity, and the nature of stringed, wind, percussion, and vocal instruments. Three hours weekly. Prerequisite: MAT1033 with a grade of "C" or higher. Placement by Testing Department or Pre or Corequisite: MUT1111 or consent of instructor
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA1003 INTRODUCTION TO LEGAL ASSISTING (3)
This course provides an overview of the training and duties of the legal assistant/paralegal. Also included is a discussion of legal terminology, research techniques, and pertinent litigation documents. Placement by Testing Department or Pre or Corequisite: MAT1033
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA1104 LAW LIBRARY/RESEARCH (3)
This course provides information on how to research and write legal documents for both trial and appellate work. An in-depth examination of the law library and legal research techniques are emphasized, including the teaching of how to research utilizing computer research. Placement by Testing Department or Pre or Corequisite: MAT1033
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 100.00
PLA1201 CIVIL LITIGATION (3)
This course covers the basic concepts of Civil Litigation. Discussions involve the liability of the individual in relation to the specific acts committed.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA1303 CRIMINAL LITIGATION (3)
This course provides students with a survey of the criminal justice system. Substantive and procedural aspects of criminal law are studied. Course content includes the nature of different crimes, the potential charges, and penalties involved; also covered are pre-trial procedures, discovery, plea-bargaining process, and the problems involved in the conduct of trial proceedings. Instructor'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. Instructor'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 of an estate. The Florida probate code and related taxes are studied. Preparation of pleadings is included. Instructor'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 CLOSING (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. Instructor'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. Instructor'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 fall documents and forms associated with immigration law, the Immigration & Nationality Act & the administrative system covering the practice of immigration law.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA2114 LEGAL WRITING AND DRAFTING (3)
This course concentrates on developing skills in the grammar, language, and format of legal documents. Emphasis is placed on drafting interoffice memoranda. Other documents drafted include business letters, briefs, and pleadings. Instructor's approval or
Prerequisite: PLA1610
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA2466 DEBTOR/CREDITOR RELATIONS (3)
This course provides an in-depth study of Debtor/Creditor law. Topics covered include collection of debts through court processes, post-judgment collection practices, bankruptcy law, landlord/tenant debt law, collection of debts based upon negotiable instruments, federal consumer collection acts, and foreclosure actions. Instructor's approval or
Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLA2612C ADVANCED TITLE SEARCH PROCEDURES (3)
The student will learn how to perform a closing from the inception to closing. They will become familiar with real estate documentation, an understanding of title insurance, homestead concepts, basic title examination, and transactions and procedures to prepare and close various real property transactions. The student will apply computer applications throughout the course using The Fund's ATID System to search title information to prepare closing documents and policies.
Prerequisite: PLA1610
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

PLA2940 LEGAL ASSISTING PRACTICUM (3)
This course is designed to apply the knowledge and skills developed in the required courses through practical work experience. The student will perform legal work for 144 hours under the supervision of an attorney. Program Coordinator's approval.
Prerequisite: ENC1101 PLA1003 PLA1104
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

PLS2600 WEED IDENTIFICATION AND CONTROL (3)
Identification and methods of control of terrestrial and aquatic weeds of Southern Florida commonly found in landscapes, field and container nurseries, and turfgrasses and aquatic areas. Calibration, use and preventative maintenance of pest control equipment will also be discussed. Two four hour lectures for 6 weeks.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

POR1120 BEGINNING PORTUGUESE I (4)
Fundamentals of speaking, understanding, reading, and writing. Classroom practice and exercises supplemented by language laboratory sessions designed to develop confidence and proficiency. Student expected to continue with POR1121. Meets Area 8 general education requirements for the A.A. degree.
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

POR1121 BEGINNING PORTUGUESE II (4)
Continuation of POR1120. Further development of the basic skills. Selected readings. Meets Area 8 general education requirements for the A.A. degree.
Prerequisite: POR1120
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

POS2041 NATIONAL GOVERNMENT (3)
Study of theory, principles, and institutions involved in the American National Government. Meets Area 3A general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

POS2112 STATE AND LOCAL GOVERNMENT (3)
Study of the principles and institutions of American state and local government. Meets Area 3A general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. 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.

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RAT1654 ADVANCED DOSIMETRY II (3)
A continuation of the study of dose calculations including the combination of multiple modalities of treatment methodology with emphasis on comparison of treatment techniques for selected anatomical sites.
Pre requisite: RAT1651 RAT1655 RAT1942
Pre or Corequisite: RAT1656 RAT1659 RAT1902C
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RAT1655 MEDICAL PHYSICS AND INSTRUMENTATION (2)
A review and in-depth presentation of radiation physics including but not limited to matter, energy, and radiation, principles of x-ray and radioactivity, interaction of x and gamma rays. Radiation protection to include state and federal regulations. An introduction to various radiation detection instrumentation. Prerequisite: Program Admission.
Pre or Corequisite: RAT1651 RAT1652 RAT1655L
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RAT1655L MEDICAL PHYSICS AND INSTRUMENTATION (1)
A course designed to provide hands-on instruction in radiation detection instrumentation. Prerequisites: Program Admission.
Pre or Corequisite: RAT1651 RAT1652 RAT1655
Lec Hrs = 0  Lab Hrs = 16  Oth Hrs = 0  Fees = 25.00

RAT1656 PHYSICS & BASIC BIOMEDICAL ELECTRON (2)
A continuation of the study of radiation physics with emphasis on the fundamentals of technologic applications in simulation and patient treatment. A study of the computers utilized in radiation therapy treatment planning and the generation of computerized treatment plans. An in-depth study of the rationale, principles and the methods of quality assurance as they relate to radiation therapy.
Prerequisite: RAT1651 RAT1655 RAT1655L
Pre or Corequisite: RAT1654 RAT1656 RAT1902C
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RAT1659 ADVANCED QUALITY ASSURANCE (2)
Patient treatment competencies are assigned under the direct supervision of a registered radiation therapist. Complexity is commensurate with level of education.
Prerequisite: RAT1021C RAT1111 RAT1111L
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 20.50

RAT1804 CLINIC EDUCATION I (3)
A study of the computers utilized in radiation therapy treatment planning and the generation of computerized treatment plans. A course designed to provide hands-on instruction in radiation detection instrumentation.
Prerequisite: Program Admission.
Pre or Corequisite: RAT1651 RAT1652 RAT1902C
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RAT1902C COMPUTER TREATMENT PLANNING LAB (3)
Patient treatment competencies are assigned under the direct supervision of a registered radiation therapist. Complexity is commensurate with level of education.
Prerequisite: RAT1021C RAT1111 RAT1111L
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 20.50

RAT1942 CLINIC EDUCATION I (3)
A study of the computers utilized in radiation therapy treatment planning and the generation of computerized treatment plans. An in-depth study of the rationale, principles and the methods of quality assurance as they relate to radiation therapy.
Prerequisite: RAT1651 RAT1655 RAT1655L
Pre or Corequisite: RAT1654 RAT1656 RAT1659
Lec Hrs = 32  Lab Hrs = 16  Oth Hrs = 0  Fees = 25.00

RAT1944 CLINIC EDUCATION II (3)
A study of the computers utilized in radiation therapy treatment planning and the generation of computerized treatment plans. An in-depth study of the rationale, principles and the methods of quality assurance as they relate to radiation therapy.
Prerequisite: RAT1651 RAT1655 RAT1655L
Pre or Corequisite: RAT1654 RAT1656 RAT1902C
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 150.95
RAT2691L DOSIMETRY AND COMPUTER TREATMENT PLANNING
Introduction to computer application in treatment planning in brachytherapy and external beam treatments.
Prerequisite: RAT2022 RAT2241 RAT2618 RAT2657 RAT2624 Corequisite: RAT2619
Pre or Corequisite: RAT2834

Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 25.00

RAT2657 QUALITY ASSURANCE AND PHARMACOLOGY
Will present an in-depth study of the principles and concepts of quality assurance and pharmacology to include the history, theory, and clinical effects and their relationship to oncology.
Prerequisite: RAT2021 RAT2023 RAT2617
Pre or Corequisite: RAT2022 RAT2241 RAT2618
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RAT2814 CLINIC EDUCATION
Patient treatment competency assignments are continued in clinic. The student's responsibilities increase as more complex competencies in patient treatment are mastered. Prerequisite: Program Admission.
Pre or Corequisite: RAT2021 RAT2023 RAT2617
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 29.45

RAT2824 CLINIC EDUCATION
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
Pre or Corequisite: RAT2241 RAT2618 RAT2619
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 29.45

RAT2834 CLINIC EDUCATION
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  Oth Hrs = 512  Fees = 29.45

REA0001C 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 test to place into REA0001C.
Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 36.00

REA0006C COLLEGE PREPARATORY READING II
Teaches basic reading and study skills to prepare students for college course work. An EAP0320C student must have a A, B, or C in EAP0320C and have taken the CPT reading test to place into REA0006C. Special fee charged. Prerequisite: Completion of REA0001C with a grade of "C" or higher or placement by assessment test or department recommendation.
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.
Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 0  Fees = 0.00

REA1205 ADVANCED COLLEGE READING II
Increases speed, improves analytical, inferential, and critical reading abilities, and teaches advanced study techniques. Special fee charged. Placement by scoring a minimum of 40th percentile on a national college reading test or instructor approval or prerequisite: REA1105
Lec Hrs = 32  Lab Hrs = 32  Oth Hrs = 0  Fees = 5.00

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.
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 5.00

REE1210 REAL ESTATE FINANCE
This course covers the basics of real estate lending with an emphasis on commercial property. Topics covered include legal issues in real estate lending, risk, appraising income property, and financing of different types of commercial properties.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

REL2120 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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

REL2140 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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

REL2000 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. Meets Area 2G general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree. Prerequisite: College-level reading skills.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

REL2300 WORLD RELIGIONS
Primarily an ideological examination of the world's most popular religions. Meets Areas 2G and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree. Prerequisite: College-level reading skills.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

REL2930 SPECIAL TOPICS; RELIGION
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.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET1026 RESPIRATORY THERAPY EQUIPMENT
This course reviews all of the normally used respiratory therapy equipment except that used for artificial mechanical ventilation or diagnostic procedures. Especially emphasized are methods of manufacturing, storing and administering oxygen; humidity and aerosol therapy, cleaning and sterilization techniques and airway management. Term I.
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 techniques and hazards of artificial ventilation including IPPB, IMV, CPAP, and PEEP. The principles and operation of all commonly used ventilators are emphasized.
Prerequisite: RET1026 RET1026L RET1485
Pre or 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 and master the skills required to manage those ventilators commonly used for life support systems and for therapeutic modalities.
Prerequisite: RET1026 RET1026L RET1485
Pre or Corequisite: RET1264 RET1484 RET1832L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET1484 CARDIO PULMONARY PATHOPHYSIOLOGY (3)
This course is designed to introduce the students to the basic concepts of cardiopulmonary disease. Included are mechanisms of altered lung structure, airway caliper, 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 is an in-depth study of the anatomy of the cardiopulmonary system, and a review of the physiology of respiration including ventilation mechanics and control, internal and external respiration, gas exchange, and acid base balance.
Prerequisite: BSC1085, CHM1032, MAT1033, or MTB1310. Corequisite: RET1026, RET1026L. 3 hrs. Lec. Term I.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET1832L RESPIRATORY THERAPY CLINIC I (3)
In this first clinical course, the student is 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 = 23.95

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 = 20.95

RET2286 MANAGEMENT OF THE INCREASINGLY INTENSIVE CARE PATIENT (2)
This course includes nephrology, renal anatomy and physiology, fluid and electrolyte disorders, and therapy. Additional topics are the management of arrest, of shock, and airway care of the post-op heart patient and labile blood pressures.
Prerequisite: RET2503 RET2714 RET2834L
Pre or Corequisite: RET2601 RET2835L
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET2414 RESPIRATORY THERAPY PULMONARY FUNCTION (1)
RET2414 pulmonary function: refined techniques in spirometry gas analysis, and theory of arterial blood gas analysis are discussed. Mass screening and other techniques in diagnosis of respiratory disease are given.
Prerequisite: RET1485
Pre or Corequisite: RET2414L
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 = 25.00

RET2418 CARDIOPULMONARY DIAGNOSTICS AND TECHNIQUES (2)
This course examines cardiac anatomy, physiology, and diseases. Diagnostic procedures include EKG's, cardiac catheterization, cvp, swanganz and arterial lines, shock and cardiac output determination. Drug and other therapeutic regimen are discussed.
Prerequisite: CVT1200 RET1485 RET1832L
Pre or Corequisite: RET1833L
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET2503 ADVANCED CARDIOPULMONARY PATHOPHYSIOLOGY (2)
An in-depth examination of the most commonly encountered cardiopulmonary diseases from the physicians clinical perspective. Emphasized are pathology, physical examination, diagnosis and clinical management.
Prerequisite: RET1833L RET2418
Pre or Corequisite: RET2414 RET2714 RET2834L
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. The attainment of the course objectives will provide the student with an understanding and appreciation for the complexity and comprehensiveness of the health care delivery system. Such an understanding will allow the student to assume his rightful role within the health delivery system and enable him to adjust to the dynamics of the system in positive ways that will ensure his or her growth and success.
Prerequisite: RET2503 RET2714 RET2834L
Pre or Corequisite: RET2286 RET2835L
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

RET2714 PEDIATRIC AND NEONATAL RESPIRATORY (3)
This course emphasizes pediatric and neonatal diseases, their etiology and treatment. It encompasses the newest equipment and techniques used in monitoring and maintaining the infant patient.
Prerequisite: RET1833L RET2418
Pre or Corequisite: RET2414 RET2503 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 RET2503 RET2714
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 256  Fees = 20.95
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 RET2503 RET2834L
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 256 Fees = 20.00

RTE1000 INTRODUCTION TO RADIOLOGIC TECHNOLOGY (3)
The organization and operation of a radiology department; radiologic procedures to include radiation protection, darkroom techniques, basic exposure factors, films and film holders, and professional development. Prerequisite: Program Admission.
Pre or Corequisite: RTE1111 RTE1503 RTE1804
Lec Hrs = 48 Lab Hrs = 40 Oth Hrs = 0 Fees = 0.00

RTE1111 NURSING PROCEDURES RADIOLOGIC TECHNOLOGY (2)
Nursing procedures and patient care issues, as related to diagnostic procedures in radiologic technology. Topics include: legal ethics, infection control, basic patient care, body mechanics, medical emergencies, patients with special needs, pharmacology and drug administration.
Pre or Corequisite: RTE1000 RTE1503 RTE1804
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

RTE1418 PRINCIPLES OF 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 films/film holders and the primary factors of radiographic quality.
Prerequisite: RTE1000 RTE1111 RTE1503
Pre or Corequisite: RTE1513 RTE1613 RTE1814
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

RTE1418L PRINCIPLES OF IMAGING I LAB (1)
Practical application of theory taught in RTE1418. Students perform laboratory experiments to demonstrate concepts taught in lecture.
Prerequisite: RTE1000 RTE1111 RTE1804
Pre or Corequisite: RTE1513 RTE1613 RTE1814
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

RTE1503 RADIOGRAPHIC ANATOMY AND POSITIONING I (3)
Anatomy and radiographic techniques related to the chest, abdomen, upper and lower gastrointestinal tract, biliary, and urinary systems. Prerequisite: Program Admission.
Pre or Corequisite: RTE1000 RTE1111 RTE1503L
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

RTE1503L RADIOGRAPHIC ANATOMY AND POSITIONING I LAB (1)
Practical application of theory taught in RTE1503 class. Students practice techniques relating to radiography of the chest, abdomen, upper and lower gastrointestinal tracts, biliary, and urinary systems. Prerequisite: Program Admission.
Pre or Corequisite: RTE1000 RTE1111 RTE1503
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 20.00

RTE1513 RADIOGRAPHIC ANATOMY AND POSITIONING II (3)
The principles of radiographic anatomy and positioning related to the upper and lower extremities including the shoulder and pelvic girdle and the spine to include sacrum and coccyx.
Student will learn anatomy of the body parts and the radiographic positions/projections routinely employed in the imaging of these parts.
Prerequisite: RTE1000 RTE1111 RTE1503
Pre or Corequisite: RTE1418 RTE1513L RTE1814
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

RTE1561 NON-Routine PROCEDURES (1)
The principles of Radiographics Anatomy related to the vascular system, central nervous system, respiratory system, reproductive system and joints. The contrast media employed for each procedure will be studied. Specialized radiographic equipment used in special procedures as well as a variety of new positioning techniques are studied.
Prerequisite: RTE2385 RTE2457 RTE2457L
Pre or Corequisite: RTE2854
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

RTE1613 RADIOGRAPHIC PHYSICS I (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
Pre or Corequisite: RTE1418 RTE1513 RTE1814
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

RTE1804 CLINICAL EDUCATION I (2)
Provides the student with clinical experience in the hospital and involves the application of the theory covered in lecture. Also includes darkroom practice, principles of radiology and film critique. Meets 16 hours per week. Term I.
Prerequisite: Program Admission.
Pre or Corequisite: RTE1000 RTE1111 RTE1503
Lec Hrs = 0 Lab Hrs = 256 Oth Hrs = 0 Fees = 45.95

RTE1814 CLINICAL EDUCATION II (2)
Continuation of RTE1804 with students performing radiographic examination under direct supervision in clinical education centers. Emphasis is placed on upper and lower extremities, fluoroscopic procedures and film critique. Meets 16 hours per week. Term II.
Prerequisite: RTE1111 RTE1503 RTE1804
Pre or Corequisite: RTE1418 RTE1513 RTE1814
Lec Hrs = 0 Lab Hrs = 256 Oth Hrs = 0 Fees = 45.95

RTE1824 CLINICAL EDUCATION III (2)
A continuation of RTE1814 with students performing radiographic examinations under direct supervision. Emphasis is placed on the spine, thorax, and film critique. Students will begin to perform procedures unassisted. Meets 32 hours per week for 12 weeks. Term III, Year I.
Prerequisite: RTE1418 RTE1513 RTE1814
Pre or Corequisite: RTE1932C
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**Course Descriptions**

**RTE1932C SPECIAL TOPICS**
Designed to prepare the student with the necessary knowledge and skills to perform in specialized areas that include: venipuncture and electrocardiography. Prerequisite: RTE1513 RTE1513L RTE1613 RTE1814
Lec Hrs = 16 Lab Hrs = 16 Oth Hrs = 0 Fees = 0.00

**RTE2385 RADIATION BIOLOGY AND PROTECTION**
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: RTE2523 RTE2523L RTE2623
Pre or Corequisite: RTE2457 RTE2457L RTE2844
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 2.00

**RTE2457 PRINCIPLES OF IMAGING II**
A study of the factors that affect radiographic quality, solving technique problems and developing technique charts. Prerequisite: RTE2523 RTE2523L RTE2623
Pre or Corequisite: RTE2385 RTE2457L RTE2844
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

**RTE2457L PRINCIPLES OF IMAGING II LAB**
Practical application of theory taught in RTE2457 class. Students perform laboratory experiments to demonstrate factors affecting radiographic quality. Prerequisite: RTE2523 RTE2623 RTE2834
Pre or Corequisite: RTE2385 RTE2457L RTE2844
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

**RTE2473 RADIOGRAPHIC QUALITY ASSURANCE**
Practices and procedures related to radiographic quality assurance and quality control. Prerequisite: RTE2523 RTE2623 RTE2782
Pre or Corequisite: RTE2385 RTE2457L RTE2844
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 25.00

**RTE2523 RADIOGRAPHIC ANATOMY AND POSITIONING III**
The principles of anatomy and positioning related to the skull to include facial bones, sinuses and mastoids; thorax to include ribs and sternum; mammary glands; trauma, pediatric and mobile radiography. Prerequisite: RTE1824
Pre or Corequisite: RTE2523L RTE2623 RTE2782 RTE2834
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**RTE2523L RADIOGRAPHIC ANATOMY AND POSITIONING III LAB**
Practical application of the theory taught in RTE2523. Students practice positioning of the cranium and facial area, bony thorax to include ribs and sternum and trauma and pediatric radiography. Prerequisite: RTE1824
Pre or Corequisite: RTE2523L RTE2623 RTE2782 RTE2834
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 25.00

**RTE2563 ADVANCED VASCULAR/INTERVENTIONAL RADIOGRAPHY**
Provides advanced study into vascular/cardiovascular/interventional procedures for the special procedures radiographer. This course will provide an overall review of current and future vascular, as well as nonvascular intervention being performed to this date. Emphasis will be on diagnostic and therapeutic procedures and their application in a clinical setting. Prerequisite: graduation from an accredited radiography program.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 2.00

**RTE2573 SURVEY OF IMAGING MODALITIES**
A study of the imaging modalities which exist in conjunction with the radiology department to include nuclear medicine, diagnostic medical, sonography, C.T. scanning, radiation therapy, and magnetic resonance imaging. Prerequisite: RTE2523 RTE2782 RTE2834
Pre or Corequisite: RTE2457 RTE2473 RTE2844
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**RTE2575 INTRODUCTION TO MAGNETIC RESONANCE**
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 = 2.00

**RTE2623 RADIOLOGIC EQUIPMENT**
A study of the physical basis of operation of radiographic equipment. Emphasis includes x-ray equipment circuitry and components, x-ray tubes, image intensifiers, TV monitors and video recorders, serial film changers, multi-phasic generators, conventional and digital image subtraction equipment, digital equipment, non-film imaging equipment, accessory equipment and x-ray production and interaction process processes. Prerequisite: RTE1824
Pre or Corequisite: RTE2523
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 10.00

**RTE2782 RADIOGRAPHIC PATHOLOGY**
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, urinary, cardiovascular, nervous, hematopoietic, endocrine and reproductive systems with radiologic imaging considerations. Prerequisite: RTE1824
Pre or Corequisite: RTE2523 RTE2523L RTE2623 RTE2834
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

**RTE2834 CLINICAL EDUCATION IV**
A continuation of RTE1824 with students performing procedures taught in previous clinical courses. Emphasis is placed on radiography of the skull. The student is expected to work with indirect supervision. Meets 24 hours per week, includes film critique. Prerequisite: RTE1824
Pre or Corequisite: RTE2523 RTE2623 RTE2782 RTE2834
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 384 Fees = 45.95

**RTE2844 CLINICAL EDUCATION V**
A continuation of RTE2834 with students perfecting positioning skills and learning to work independently. Emphasis is placed on completing clinical competencies. Includes film critique. Meets 24 hours per week. Prerequisite: RTE2523 RTE2782 RTE2834
Pre or Corequisite: RTE2385 RTE2457 RTE2457L
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 384 Fees = 45.95

**RTE2854 CLINICAL EDUCATION VI**
A continuation of RTE2844 with students practicing skills independently. Includes rotation through the specialty areas of C.T., nuclear medicine, radiation therapy and ultrasound. Students use this clinical as their elective time and selectively choose an area of specialization. Term III, Session 2 (6 weeks). Prerequisite: RTE2457 RTE2844
Pre or Corequisite: RTE1561
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 144 Fees = 45.95

**RTV2000 INTRODUCTION TO RADIO AND TELEVISION**
An introduction to the broadcast media through which the students should gain an understanding of the historical, cognitive and cultural impact of radio and television. Prerequisite: RTE1824
Pre or Corequisite: RTE2457 RTE2473 RTE2844
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 2.00
technical, legal, and critical aspects of radio and television media.

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 of 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
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.
Lec Hrs = 48  Lab Hrs = 32  Oth Hrs = 0  Fees = 50.00

RTV2949 CO OP WORK EXPERIENCE  (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.
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. Meets Area 8 general education requirements for the A.A. 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. Meets Area 8 general education requirements for the A.A. degree. Prerequisite: RUS1120
Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

SLS1001 STRATEGIES FOR SUCCESS  (3)
This course is tailored for First Time in College students and provides opportunities to learn about Broward Community College and higher education, acquire and practice learning strategies, explore personal learning styles, identify career options, and develop life-long skills for responsible citizenship. Required for all degree seeking students that test into 3 college preparatory areas with two at the lowest level. Recommended for all new students.
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.
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.).
Lec Hrs = 32  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SLS1350 EMPLOYABILITY SKILLS  (1)
This course is a study of the methods and techniques used in the job search process with particular emphasis on resume writing, interview techniques, employment communications, and job search strategies.
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SLS1501 COLLEGE SUCCESS SKILLS  (1)
This course is designed for first semester freshman students. It serves as an introduction to Broward Community College and assists beginning students in coping with challenges of college life, clarifying their goals and learning strategies and skills that will help them succeed in college and life.
Lec Hrs = 16  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

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 = 0.00

SON1111 ABDOMINAL SONOGRAPHY I  (3)
An introduction to the cross-sectional anatomy of the abdominal are and its recognition on sonographic visualization systems.
Pre or Corequisite: SON1100 SON11170
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SON1122 SONOGRAPHIC OB/GYN II  (3)
The detection of anomalies, pathology, deviation from normal and the planes which must be sonographically imaged for accurate diagnosis is stressed.
Pre or Corequisite: SON1111 SON1212 SON1215
Lec Hrs = 56  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SON1141 SMALL PARTS SONOGRAPHY  (3)
A general introduction to the areas of carotid, eye, thyroid, prostate, scrotum, breast and other superficial structures. Prerequisite: SON1112 SON1212 SON1215
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SON1170 SONOGRAPHY OF THE CIRCULATORY SYSTEM  (2)
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  (3)
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 (3)
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 (3)
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 = 0.00

SON1215 PRACTICAL ASPECTS OF SONOGRAPHY II (3)
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 SON1121 SON1214
Pre or Corequisite: SON1112 SON1122 SON1814
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SON1804 CLINIC A (3)
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 SON1121 SON1211
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 45.95

SON1814 CLINIC B (3)
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 SON1122 SON1212
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 384  Fees = 45.95

SON1824 CLINIC C (4)
Application of all the material presented requiring the student to make judgmental decisions regarding technical aspects, to interact in a professional manner with those with whom he or she comes in contact, and to generally progress to the point where he or 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 = 45.95

SON2161 NEONATAL NEUROSONOLOGY (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.

Prerequisites: A.R.D.M.S.
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 it's 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: SON2174
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 SONOGRAPHY OF HEART/CHEST I (3)
Anatomy of the heart and the procedures used in screening are introduced stressing recognition of the normal versus abnormal. Prerequisites: Program Admission or Permission by Program Manager and

Prerequisite: SON1141 SON1824
Pre or Corequisite: SON2834
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 5.00

SON2401 SONOGRAPHY OF HEART/CHEST II (3)
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. 3 hrs. wk., Term II
Prerequisite: SON2400 SON2834
Pre or Corequisite: SON2161 SON2844
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 5.00

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 judgement decisions regarding the technical aspects of diagnostic sonographic exams.

Prerequisite: SON1141 SON1824
Pre or Corequisite: SON2400
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 258  Fees = 45.95

SON2844 CLINIC E (3)
Application of all the materials presented requiring the student to interact in a professional manner, to make judgement 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 = 258  Fees = 45.95

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, leader-ship, group dynamics, attribution and construct theory.

Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SPA2001 INTRODUCTION TO SPEECH DISORDERS
Upon completion of this course the student should have an understanding of the types, causes, and therapeutic methods relative to prime speech disorders with emphasis on pre-school and elementary school populations.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SPA2614 AMERICAN SIGN LANGUAGE III
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 fingerspelling. 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 SPA1612 and SPA1613. 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. Meets Areas 5, 7 and 8 A.A. degree general education.
Prerequisite: SPA1613
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

SPA2615 AMERICAN SIGN LANGUAGE IV
Upon completion of this course, students will have acquired American sign language vocabulary totaling approximately 500 concepts. Conceptual accuracy in sign choices will be stressed. Advanced level linguistic principles will be covered including the linguistic and semantic differences between ASL and English. The course will emphasize receptive understanding of ASL through the study of native deaf signers. Indirect discourse for recounting stories will be emphasized. Content builds upon the foundation established in the three previous courses in ASL. After completing the four courses, students should have a receptive and expressive sign vocabulary of approximately 2000 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: SPA2614
Lec Hrs = 64 Lab Hrs = 0 Oth Hrs = 0 Fees = 5.00

SOS1102 SOILS AND FERTILIZERS
The study of the complex problems involved in the use of existing soils and growing media in South Florida for commercial production of ornamental plants and turf. Fertilizer programs and formulations will be discussed thoroughly.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SOS2242C 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

SOS2243C 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: SOS2242C
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 10.00

SOW2020 INTRODUCTION TO SOCIAL WELFARE
This is a beginning course in the behavioral science based field of social work. It aims at introducing the student to the historical, political policy and methodological systems that have interacted to produce the institutions of welfare services and the profession of social work.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SOW2054 SOCIAL SERVICE FIELD EXPERIENCE I
A survey and orientation to organization, and operations of the social service setting. Contact with and participation in social service agencies to make students aware of community resources is a goal of this course. Part of the course's activities can include volunteer participation in an agency or a supervised review of an agency in which a person is employed.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SOW2055 SOCIAL SERVICE FIELD EXPERIENCE II
A survey and orientation to organization, and operations of the social service setting. Contact with and participation in social service agencies to make students aware of community resources is a goal of this course. Part of the course's activities can include volunteer participation in an agency or a supervised review of an agency in which a person is employed.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SPC0252 PLAY PRODUCTION
A course designed to investigate the problems of choosing and analyzing the script, casting, rehearsal, costuming, make-up, organization and management of the educational theatre.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

SPC0255 ACTING
The techniques of acting, including expressive use of the body and voice in characterization. Exercises from various types of plays for business, movement, pacing, emotional expression, creation and projection of character.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

SPC1024 INTRODUCTION TO SPEECH COMMUNICATION
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. Meets Areas 1C, 7, and 8 general education requirements for the A.A. degree. Meets Area 5 general education requirements for the A.S. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SPC1050 VOICE AND DICTION
Through observation, study and practice, the student should acquire an understanding of the speech mechanism, a knowledge of its proper use, and improvement of individual voice and diction.
Lec Hrs = 32 Lab Hrs = 16 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 problems.

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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPC1600 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. Meets Areas 1C, 7, and 8 general education requirements for the A.A. degree. Meets Area 5 general education requirements for the A.S. 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.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPC2330 NONVERBAL COMMUNICATION (3)

This course explores the various facets of nonverbal communication. The following nonverbal cues will be emphasized: movement, space, distance, physical characteristics, dress, object language, eye contact, signs, paralanguage, and environmental cues. The focus of the course will be the role that these cues play in communication.

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. Meets Area 8 general education requirements for the A.A. degree.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPN1120 BEGINNING SPANISH I (4)

Fundamentals of speaking, understanding, reading and writing. Classroom practice and exercises supplemented by language laboratory sessions designed to develop confidence and proficiency. Student expected to continue with SPN1121. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

SPN1121 BEGINNING SPANISH II (4)

Continuation of SPN1120. Further development of the basic skills. Selected readings. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.

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. Prerequisite: SPN1100 or SPN1000 or instructor's approval. Meets Area 8 general education requirements for the A.A. degree. Special fee charged.

Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPN2201 INTERMEDIATE SPANISH II (3)

Emphasis on composition, comprehension and conversation. Interesting tour through Spanish history, geography and literature. Aim of course to give student a necessary background in the culture of Spain and to gain more fluency in oral and written expression. This course completes intermediate year. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree.

Prerequisite: SPN2200

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPN2220 INTERMEDIATE SPANISH I (4)

Review of the most essential grammatical structures with an introduction of new grammatical and idiomatic material. Composition and readings in Spanish prose. Conversation at an easy and enjoyable pace. Meets Areas 2B and 8 general education requirements for the A.A. degree. Meets Areas 2 or 5 general education requirements for the A.S. degree. Special fee charged.

Prerequisite: SPN1121

Lec Hrs = 64  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

SPN2240 INTERMEDIATE SPANISH CONVERSATION (3)

Course may be taken in conjunction with SPN2220 or SPN2201 but cannot displace either one of those courses as a college parallel requirement. The purpose of this course is to permit that student who wishes to increase his comprehension and speaking facility in Spanish to be in a class where the emphasis is totally on the oral approach and where a greater variety of topics will be discussed at a faster pace than the required 2201 course would allow. Meets Area 8 general education requirements for the A.A. degree.

Prerequisite: SPN1120 SPN1121

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 15.00

SPN2340 BEGINNING SPANISH FOR SPANISH SPEAKERS (4)

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. Meets Area 8 general education requirements for the A.A. degree.

Lec Hrs = 48  Lab Hrs = 16  Oth Hrs = 0  Fees = 15.00

SPN2441 SPANISH IN THE BUSINESS WORLD (3)

More advanced study of Spanish business documents with particular emphasis on the writing of business letters, commercial legal documents and translation. Prerequisite: instructor's approval. Meets Area 8 general education requirements for the A.A. degree.

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPN2955 STUDY ABROAD: ADVANCED COMPOSITION (3)

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. Meets Area 8 general education requirements for the A.A. This course is used only in BCC Study Abroad Programs.

Prerequisite: SPN2201

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

SPN2956 STUDY ABROAD: ADVANCED COMPOSITION (3)

For students wishing to attain greater proficiency in spoken and written Spanish. Strongly recommended for majors. Conducted entirely in Spanish. Conversation and composition based on selected readings and a variety of contemporary topics, together with readings in contemporary prose and poetry. Meets Area 8 general education requirements for the A.A. degree. This course is used only in the BCC Study Abroad Programs. Prerequisite: SPN2201

Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00
STA2023 STATISTICS (3)
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. Meets Areas 5A or 6 of the general education requirements for the A.A. degree. Meets Areas 4 or 5 of the general education requirements for the A.A. degree. Prerequisite: MAT1033.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 20.00

SUR2001 SURVEYING I (1)
The theory of construction surveying including the use and care of surveying instruments. Prerequisite satisfied or instructor approval.
Prerequisite: MAC1105
Pre or Corequisite: SUR2001L
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SUR2140C SURVEYING II (3)
Highway surveying including horizontal and vertical curves. Traverse computations using the electronic calculator. Familiarization with advanced techniques such as laser, tellurometer and geodimeter equipment. Prerequisite: SUR2001 SUR2001L
Lec Hrs = 48 Lab Hrs = 16 Oth Hrs = 0 Fees = 40.00

SYG1931C TEA: SOCIAL, MULTICULTURAL ISSUES AND FIELD EXPERIENCE (3)
This course is the third in a series of four professional seminars for students enrolled in TEA courses seeking an A.A. degree from BCC. General analysis of educational practices and their impact on students and society through a scientific consideration of modern social and multicultural forces on personal experiences, social behavior and academic performance.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SYG2000 PRINCIPLES OF SOCIOLOGY (3)
General analysis of the structures and functions of society and culture through a scientific consideration of the influence of social and cultural forces on personal experiences and social behavior. Meets Areas 3B and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SYG2010 SOCIAL PROBLEMS (3)
The study of the social and cultural aspects, incidence, and characteristics of selected social problems. Meets Area 3B general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SYG2212 SOCIETY AND THE ENVIRONMENT (3)
A study of humanity's social systems and the resulting impact of their technologies on the natural environment and natural life support systems.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SYG2230 CONTEMPORARY RACE AND ETHNIC STUDIES (3)
A study of minority dominant relations with emphasis on ethnic, racial, and religious minorities.
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.
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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

SYG2340 SOCIOLOGY OF HUMAN SEXUALITY (3)
A survey of the sociological, psychological, and physiological sources of human sexuality and their impact on contemporary social attitudes and behavior.
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.
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. Meets Areas 3B and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. 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.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
SYG2930 SPECIAL TOPICS: CURRENT ISSUES IN (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.
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.
Lec Hrs = 16 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

TAR2142C ARCHITECTURAL 3D RENDERING (3)
This course is designed to provide the student to produce architectural drawings and study construction methods and techniques used in commercial buildings. Special attention is directed to the practice of prestressed/prefabricated concrete beams and structural steel members. AutoCAD/ArchiCAD will be used extensively as one of the tools for preparing drawings.
Prerequisite: ETD1320
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

TAR2144C ARCHITECTURAL 3D SPACE AND ANIMATION (3)
This course enables the student to provide architectural drawings and study construction methods and techniques used in high-rise buildings. Special attention is directed to air conditioning, vertical transportation, refuse disposal, parking, and landscaping fundamentals.
Prerequisite: TAR2142
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

TAR2154 MULTI STORY ARCHITECTURAL DRAFTING (3)
This 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.
Lec Hrs = 48 Lab Hrs = 0 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. Meets Area 2D general education requirements for the A.A. degree.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

THE2051 CHILDREN'S THEATRE PRODUCTION (3)
Participation in the rehearsal and production of the Children's Theatre Program, which continues during the entire term.
Corequisite: THE2052L
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.
Corequisite: THE2051L
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 0.00

THE2100 INTRODUCTION TO THEATRE HISTORY (3)
An evolutionary study of the Theatre from the 5th century B.C. to the present day.
Lec Hrs = 48 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00

THE2300 SURVEY OF DRAMATIC LITERATURE (3)
A study of plays from the time of the early Greek to the current dramatists in light of the historic, philosophic, socio-political milieu of the era that promulgates the particular genre. Plays will be analyzed from a dramaturgical point of view.
Lec Hrs = 48 Lab Hrs = 0 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.
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.
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.
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.
Prerequisite: TPA2200
Lec Hrs = 32 Lab Hrs = 0 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, elevations, renderings, and models.
Prerequisite: TPA2200
Lec Hrs = 32 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
Course Descriptions

TPA2192L SUMMER THEATRE/TECHNICAL PRODUCTION (3) Participation in the technical aspects of a theatrical production including but not limited to stagecraft, management, properties, costuming, wardrobe, lighting, sound, stage makeup and house management.
Corequisite: TPA2190L
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.
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
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.
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.
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.
Lec Hrs = 0 Lab Hrs = 64 Oth Hrs = 0 Fees = 0.00

TPP1192L PERFORMANCE LAB III (3) 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.
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 0.00

TPP2110 ACTING I (3) 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.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

TPP2111 ACTING II (3) Building on the foundations established in Acting I, Acting II focuses on a close examination of the dramatic text in order to become 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
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

TPP2190L REHEARSAL AND PERFORMANCE I (3) Participation in the audition, rehearsal and performance process of a theatrical stage production.
Corequisite: TPA2192L
Lec Hrs = 0 Lab Hrs = 96 Oth Hrs = 0 Fees = 0.00

TPP2300C DIRECTING (3) 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.
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 (3) 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.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

TPP2531 STAGE COMBAT (1) Armed and unarmed combat techniques for the stage.
Lec Hrs = 0 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

TPP2700C INTRODUCTION TO VOICE (3) 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.
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

TPP2701C VOICE AND ARTICULATION II (3) 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
Lec Hrs = 32 Lab Hrs = 32 Oth Hrs = 0 Fees = 0.00

WOH1951 ISRAEL PROGRAM II (16) This is a holding course. A mechanism by which students enrolled in a study abroad program (Israel) can receive institutional credit.
Lec Hrs = 0 Lab Hrs = 0 Oth Hrs = 0 Fees = 0.00
WOH1952 ISRAEL PROGRAM I (15)
This is a holding course. A mechanism by which students enrolled in this travel and study abroad program (Israel) can receive institutional credit.
Lec Hrs = 0  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

WOH2040 WORLD IN THE 20TH CENTURY (3)
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 the course of declining superpower hegemony. Meets Areas 3A and 8 general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.S. degree.
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ZOO2010 GENERAL ZOOLOGY (3)
Basic course pertaining to the development, anatomy, physiology, genetics, ecology and natural relationships of the animal kingdom. Meets Areas 4A general education requirements for the A.A. degree. Meets Areas 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: ZOO2010L
Lec Hrs = 48  Lab Hrs = 0  Oth Hrs = 0  Fees = 0.00

ZOO2010L GENERAL ZOOLOGY LAB (1)
Laboratory experiments and activities to accompany ZOO2010. one two-hour period weekly. Special fee charged. Dissection of animals is a component of this course. Meets Area 4C general education requirements for the A.A. degree. Meets Areas 3 or 5 general education requirements for the A.A. degree. Meets 4 or 5 general education requirements for the A.S. degree. Placement by Testing Department or Pre or Corequisite: ZOO2010
Lec Hrs = 0  Lab Hrs = 32  Oth Hrs = 0  Fees = 30.00
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Barnett, Susan J., Associate Dean, Bailey Hall and Planetarium: M.Ed., Foundation: Education Research, Florida Atlantic University; B.A., Geology and Geophysics, Yale University

Barney, Patti L., Vice President, Information Technology; B.P.S., Barry University; A.A., Broward Community College

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Battle, Donna, Assistant Professor, Reading; M.A., Adult Education, Ball State University; B.Ed., Speech and Hearing Therapy, Ball State University

Batty-Herbert, Kimberly, Associate Dean, Communication/Fine Arts; Ed.D., Educational Administration, New Mexico State University Main; M.A., Communications, Eastern New Mexico University; B.S., Communications, Eastern New Mexico University; American Red Cross

Beadel, Beau N., Assistant Professor, Office Systems Technology; M.S., Management Information Systems, Nova Southeastern University; B.A., Speech Communication, California State University

Belan, Kyra, Professor, Art; Ed.D., Community College Teaching, Florida International University; M.F.A., Creative Arts (Graphics), Florida State University; B.F.A., Painting, Arizona State University

Berkowitz, Maurice, Assistant Professor, Institute of Public Safety; J.D., Law, Brooklyn Law School

Bernal-Dobek, Maria E., Assistant Professor, English Second Language; M.Ed., Curriculum and Instruction, National-Louis University; B.A., Teaching of Social Studies, University of Illinois

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The Broward Community College Foundation was the first community college foundation in the nation to complete an endowed teaching chairs capital campaign, to recognize, support and encourage the efforts of outstanding professors in their classrooms. The campaign was begun to honor the college’s 30th year with a goal of 30 chairs. The program now has 35 chairs, and more than 80 professors have been named recipients.

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Dr. William Greene, 1987
Richard Hanauer, 1987
Stephen McDonald, 1987
James Naugle, 1987
Aldanzo Pratt, 1987
Dr. Timothy Adkins, 1988
Gov. Parris Glendening, 1988
Sandra McCray, 1988
Carlton Moore, 1988
Dr. Irmgard Bocchino, 1989
Dr. William Proctor, 1989
Jasmine Shirley, 1989
Robert Ferrigno, 1990
Evelyn Hardy, 1990
Dr. Betty Brady, 1991
Barbara Jane Ellis, 1991
Dominick Calabro, 1991
Gabriel Grasso, 1991*
Varen Black, 1992
Sheriff Ronald Cochran, 1992*
Donna Wallace, 1992
Deborah Hazleton, 1993
Cynthia Lodge, 1993
Ray Recchi, 1993*
Winifred Warnat, 1993
Dr. Deborah Sloan, 1994
William Milano, 1994
Cherokee Paul McDonald, 1995
Wil Trower, 1995
Dr. Rita Mae Brown, 1996
Terry Glatt, 1996
Dr. Seth Kalichman, 1996
Sharon Robb, 1996
Steven Berrard, 1997
Judge Gary Farmer, 1998
Michael Rudolph, 1999*
Dr. Michael David Bartberger, 2000
Arden Dickey, 2001
Miles McGrane, 2002
Denise M. Nieman, 2003
Louise Crocco, 2004
Charles N. Lyle, 2004
Patti Barney, 2005
Edwin Moore, 2005

* deceased
Broward Community College
Campus Locations and Registration Hours

1. **Willis Holcombe Center**
   - Address: 225 East Las Olas Blvd.
   - Phone: 954-201-7491
   - 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**
   - Address: 3501 S.W. Davie Road, Davie, FL 33314
   - Phone: 954-201-6865
   - Registration: Bldg. 19, Room 104
   - Bookstore (Bldg. 19): 954-201-6830
   - **Registration Hours:**
     - Monday-Thursday 8 a.m.-7 p.m.
     - Friday 8 a.m.-4 p.m.

3. **North Campus**
   - Address: 1000 Coconut Creek Blvd.
   - Phone: 954-201-2240
   - 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**
   - Address: 7200 Pines Blvd., Pembroke Pines, FL 33024
   - Phone: 954-201-8835
   - 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**
   - Address: 16957 Sheridan Street
   - Phone: 954-201-3601
   - 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. **Maroone Automotive Training Center**
   - Address: 7451 Riviera Blvd., Miramar, FL 33023

7. **Tigertail Lake Center**
   - Address: 580 Gulfstream Way, Dania Beach, FL 33304

8. **Weston Center**
   - Address: 4205 Bonaventure Blvd., Weston, FL 33332

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A Location for Every Education

Broward Community College
Opening doors to a brighter future

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