# COMPUTER INFORMATION TECHNOLOGY, ASSOCIATE OF SCIENCE - GEOGRAPHIC INFORMATION SYSTEMS

**Program Code:** 2149D
**Career Pathway:** Science, Technology, Engineering, and Math

**Location(s):** Courses for this program are offered at all BC locations. (https://www.broward.edu/about/locations/) Program specific courses may vary by Campus. Please consult the course schedule semester for locations. This program is also offered fully online.
**Program Entrance Requirements:** HS Diploma or GED

**Program Description:** The Computer Information Technology - Information Technology Associate in Science degree exposes students to applications programming, networking, systems administration, database management, information security, project management and web development. It is designed for students seeking the skills set needed to be successful in their careers in the field of information technology.

1. Information Technology Support Specialist, Technical Certificate 6337
2. GIS Specialist, Technical Certificate 6361
3. Computer Information Technology, Associate of Science - Geographic Information Systems 2149D
4. Applied Bachelor of Science

| Course | Title | Credits | 6361 | 6337 |
|---|---|---|---|---|
| Course CGS1060C | Title COMPUTER AND INTERNET LITERACY | Credits 3 | 6361 | 6337 X |
| Course GIS1040C | Title INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS I | Credits 3 | 6361 X | 6337 |
| Course CGS1510C | Title EXCEL DATA ANALYSIS | Credits 3 | 6361 X | 6337 |
| Course COP1700C | Title INTRODUCTION TO DATABASE AND MYSQL | Credits 3 | 6361 X | 6337 |
| Course GIS1030 | Title REMOTE SENSING AND APPLICATIONS | Credits 3 | 6361 X | 6337 |
| Course GIS1042C | Title INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS II | Credits 3 | 6361 X | 6337 |
| Course GIS1047C | Title APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS | Credits 3 | 6361 X | 6337 |
| Course CIS1513C | Title PROJECT MANAGEMENT | Credits 4 | 6361 | 6337 |
| Course CTS1134C | Title NETWORK+ | Credits 4 | 6361 | 6337 |
| Course CTS1140C | Title Tech+ | Credits 4 | 6361 | 6337 X |
| Course ENC1101 | Title COMPOSITION I | Credits 3 | 6361 | 6337 |
| Course GE Course | Title General Education Speech | Credits 3 | 6361 | 6337 |
| Course GE Course | Title General Education Mathematics Core[1] | Credits 3 | 6361 | 6337 |
| Course AMH2010<br>or POS2041<br>or AMH2020 | Title HISTORY OF THE UNITED STATES TO 1877<br>or NATIONAL GOVERNMENT<br><br>or HISTORY OF THE UNITED STATES SINCE 1877 | Credits 3 | 6361 | 6337 |
| Course GE Course | Title General Education Natural Science Core | Credits 3 | 6361 | 6337 |

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| Course GE Course | Title General Education Humanities Core | Credits 3 | 6361 | 6337 |
| Course Elective | Title Math or Internship or IT Elective[2,3] | Credits 3 | 6361 | 6337 |
| Course CAP2788C | Title DATA+ | Credits 3 | 6361 | 6337 |
| Course COP1000C | Title INTRODUCTION TO COMPUTER PROGRAMMING | Credits 3 | 6361 | 6337 |
| Total Credits | | 60 | 6361 21 | 6337 18 |

1 If a student places into MAC1105C COREQUISITE COLLEGE ALGEBRA instead of MAC1105, please note MAC1105C is a 5-credit course. Students who register for MAC1105C must see an advisor to discuss their academic plan.

2 Students may take OST1103C (https://catalog.broward.edu/search/?P=OST1103C) BASIC KEYBOARDING, SLS1501 (https://catalog.broward.edu/search/?P=SLS1501) COLLEGE SUCCESS SKILLS, OST1330 (https://catalog.broward.edu/search/?P=OST1330) BUSINESS ENGLISH, GEB2430 (https://catalog.broward.edu/search/?P=GEB2430) BUSINESS ETHICS, OST2053 (https://catalog.broward.edu/search/?P=OST2053) SUCCESSFUL JOB SEARCH or any course with the following prefix: CTS, COP, CIS, CET, or ISM.

3 In addition to the courses marked, students must also complete additional credits, as applicable, to earn the corresponding Technical Certificate(s) as indicated above, to achieve the **Total Credits**.

**Notes:**

See General Education course information here (https://catalog.broward.edu/programs-study/aa-general-education-graduation-requirements/).

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at broward.edu/civic-literacy (https://students.broward.edu/resources/civic-literacy/).

**Students are strongly encouraged to meet with an advisor (https://students.broward.edu/resources/advising/) to create a personalized educational plan.**

# Program Highlights

## Credit for Prior Learning

Accelerate your path to completion with these options:

- Credit by exam
- Prior Learning Assessment
- Earned industry certifications
- And much more…

## Related Industry Certifications

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses:

- CompTIA A+
- CompTIA Network+
- CompTIA Project+
- CIW Database Design

## Get an Internship

After completing your first year of coursework make sure to visit Employment Solutions (https://broward.edu/career/) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx)
- Virtual Job Shadow Tool (http://www.broward.edu/studentresources/career/Pages/default.aspx)

## Median Wage and Job Growth Outlook

Broward College has Career Coach (https://www.broward.edu/careercoach/)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

## Fund Your Education

This Program is Financial Aid (https://www.broward.edu/admissions/financial-aid/) eligible. Scholarships (https://www.broward.edu/admissions/financial-aid/scholarships/) may be available. This program is part of the Career Source Broward ITA List (http://careersourcebroward.com/).

# Program Learning Outcomes

Graduates from this program will:

- Students will be able to use the appropriate tools for productivity.
- Students will be able to implement the 3 phases of database design: conceptual, logical, and physical to design & query a relational database.
- Students will be able to troubleshoot and configure software and hardware.
- Graduates will summarize the properties of a project and classify project roles and responsibilities.
- Students will be able to create partitions and file systems.
- Graduates will be able to choose the appropriate tools to manage, analyze, and visualize data and create reports and dashboards to answer business needs.
- Graduates will be able to Manage Users, Groups, and Identities within an enterprise Domain/Network.
- Graduates will be able to apply geographic information systems concepts to solve real-world scenarios.
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