



COMPUTER INFORMATION TECHNOLOGY, ASSOCIATE OF SCIENCE - DATA MANAGEMENT & ANALYSIS

Program Code: 2149A

Career Pathway: Science, Technology, Engineering, and Math

Location(s): Courses for this program are offered at all BC locations. (<http://www.broward.edu/locations/Pages/default.aspx>) This program is also offered fully online.

Program Entrance Requirements: HS Diploma or GED

Program Description: The Computer Information Technology – Data management & Analysis 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.

- a. Information Technology Support Specialist, Technical Certificate 6337
- b. Data Management & Analytics, Technical Certificate 6360
- c. Computer Information Technology, Associate of Science - Data Management & Analysis 2149A
- d. Bachelor of Applied Science

| Course | Title | Credits | 6337 | 6360 |
|--|--|-----------|-----------|-----------|
| CGS1060C | COMPUTER AND INTERNET LITERACY | 3.00 | X | |
| COP1700C | INTRODUCTION TO DATABASE AND MYSQL | 3.00 | | X |
| COP2071C | SQL FUNDAMENTALS | 4.00 | | X |
| ENC1101 | COMPOSITION I | 3.00 | | |
| CGS1510C | EXCEL DATA ANALYSIS | 3.00 | | X |
| STA2023 | STATISTICS ¹ | 3.00 | | X |
| CTS1133C | A+ COMPREHENSIVE | 4.00 | X | |
| CIS1513C | PROJECT MANAGEMENT | 4.00 | | |
| CTS1134C | NETWORK+ | 4.00 | | |
| GE Course | General Education Speech | 3.00 | | |
| ISM2410C | ANALYZING AND VISUALIZING DATA WITH POWER BI | 4.00 | | X |
| COP1000C | INTRODUCTION TO COMPUTER PROGRAMMING | 3.00 | | |
| COP2044C | MACHINE LEARNING WITH PYTHON | 4.00 | | |
| CAP2788C | DATA+ | 3.00 | | X |
| GE Course | General Education Natural Science Core | 3.00 | | |
| GE Course | General Education Humanities Core | 3.00 | | |
| AMH2020 | HISTORY OF THE UNITED STATES SINCE 1877 | 3.00 | | |
| or POS2041 | NATIONAL GOVERNMENT | | | |
| Math or Internship or IT Elective ^{2,3} | | 3.00 | | |
| Total Credits | | 60 | 18 | 20 |

¹ MGF1106 FOUNDATIONS OF MATHEMATICAL REASONING can be used as a pre-requirement for STA2023 STATISTICS if needed.

² Any course with a computing prefix.

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/>).

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY.

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+
- CIW Data Analyst
- CompTIA Network+
- CompTIA Project+
- CIW Database Design
- Microsoft MCSA BI Reporting

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:

- Configure IPv4 and IPv6 addressing, including but not limited to: configuring IP options, subnetting, supernetting, alternative configuration.
- Demonstrate the ability to read a routing table.
- Summarize the properties of a project and classify project roles and responsibilities.
- Implement the 3 phases of database design; conceptual, logical, and physical to design & query a relational database.
- Demonstrate the ability to create partitions and filesystems.