



DATA ANALYTICS, ASSOCIATE OF SCIENCE

Program Code: 2208

Career Pathway: Science, Technology, Engineering, and Math

Location(s): General Education courses are offered at all BC locations (<https://www.broward.edu/about/locations/>). Program specific courses are offered at the A. Hugh Adams Central Campus. This program is also offered fully online.

Program Entrance Requirements: HS Diploma or GED

Program Description: This degree will equip students with the skills to extract valuable insights from data, translate them into compelling visuals, and leverage machine learning techniques for informed decision-making. The program prepares students for entry-level data analyst positions in various industries. Through a blend of coursework and hands-on labs, you'll gain expertise in:

- **Data Fundamentals:** Learn core data analysis concepts including data collection, cleaning, manipulation, and storage.
- **Databases and SQL:** Master querying relational databases using SQL, the essential language for interacting with structured data.
- **Data Visualization:** Develop proficiency in creating clear, informative, and impactful data visualizations using tools like Tableau, Power BI, or other industry-standard software.
- **Statistics and Probability:** Gain a solid foundation in statistical methods used for data analysis, hypothesis testing, and drawing meaningful conclusions.
- **Machine Learning Fundamentals:** Explore core machine learning concepts like supervised and unsupervised learning algorithms, model building, and evaluation.
- **Programming Languages:** Develop practical skills in programming languages like Python or R, essential tools for data manipulation, analysis, and machine learning.
- **Data Communication:** Hone your communication skills to effectively present data insights and recommendations to both technical and non-technical audiences.

Benefits of the Program:

- **Career-Focused Curriculum:** The program focuses on practical skills and tools that are in high demand by today's employers in data analytics.
- **Industry-Standard Software:** Learn how to use industry-standard software for data analysis, visualization, and machine learning.
- **Preparation for Further Education:** This degree can serve as a steppingstone towards our bachelor's degree in data Analytics.
- **Enhanced Job Prospects:** Gain the skills and knowledge to pursue data analyst, business intelligence specialist, or entry-level data scientist positions.

1. Data Analyst II, Technical Certificate 6379
2. Data Analytics, Associate of Science 2208
3. Bachelor of Applied Science

Course	Title	Credits
ENC1101	COMPOSITION I	3
GE Course	General Education Speech	3
MAC1105 or MGF1131	COLLEGE ALGEBRA ¹ MATHEMATICS IN CONTEXT	3
GE Course	General Education Humanities Core	3
AMH2010 or AMH2020 or POS2041	HISTORY OF THE UNITED STATES TO 1877 HISTORY OF THE UNITED STATES SINCE 1877 NATIONAL GOVERNMENT	3
GE Course	General Education Natural Science Core	3
CGS1060C	COMPUTER AND INTERNET LITERACY	3
COP1000C	INTRODUCTION TO COMPUTER PROGRAMMING	3
CGS1510C	EXCEL DATA ANALYSIS	3
COP1700C	INTRODUCTION TO DATABASE AND MYSQL	3
GIS1040C	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS I	3
COP2071C	SQL FUNDAMENTALS	4

STA2023	STATISTICS	3
CAP2788C	DATA+	3
CAP2787C	DATA WAREHOUSE AND DATA MINING FUNDAMENTALS	3
COP2044C	MACHINE LEARNING WITH PYTHON	4
ISM2410C	ANALYZING AND VISUALIZING DATA WITH POWER BI	4
ISM2139C	ADVANCED DATA VISUALIZATION WITH EXCEL	3
Elective	Math or Internship or IT Elective ²	3
Total Credits		60

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 Any course with a computing prefix.

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 Data+
- MOS Excel Expert
- CIW Database Design
- Microsoft MCSA BI Reporting

GET AN INTERNSHIP

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

Median Wage and Job Growth Outlook

Broward College has Career Coach! (<https://www.broward.edu/career/career-exploration.html>) 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

Scholarships (<https://www.broward.edu/admissions/financial-aid/scholarships/>) may be available.

Program Learning Outcomes

Graduates from this program will:

- Learn core data analysis concepts including data collection, cleaning, manipulation, and storage.
- Master querying relational databases using SQL, the essential language for interacting with structured data.
- Develop proficiency in creating clear, informative, and impactful data visualizations using tools like Tableau, Power BI, or other industry-standard software.
- Hone your communication skills to effectively present data insights and recommendations to both technical and non-technical audiences.
- Gain a solid foundation in statistical methods used for data analysis, hypothesis testing, and drawing meaningful conclusions.
- Explore core machine learning concepts like supervised and unsupervised learning algorithms, model building, and evaluation.
- Develop practical skills in programming languages like Python or R, essential tools for data manipulation, analysis, and machine learning.