

DATA ANALYTICS, ASSOCIATE OF SCIENCE DEGREE

Banner Code: 3_AS_DATA

Control Number: 39435

Financial Aid Eligible

Course	Title	Units
ICS C165	Foundations of Data Science and Artificial Intelligence	
<i>Major Units</i>		<i>27</i>
Local General Education or CalGETC pattern		varies
Electives to Satisfy Unit Requirement		varies
Total Units for Degree		60

The Associate of Science in Data Analytics equips students with a strong foundation in analytics, business intelligence, and data visualization.

This program prepares students for entry-level positions and career advancement in roles such as Business Analytics Specialist, Data Analyst, Data Visualization Developer, Operations Research Analyst, and Market Research Analyst. Key topics include data analysis, data mining, statistical modeling, SQL querying and data visualization, systems analysis and design, and reporting techniques.

Program Level Student Learning Outcomes

Upon completion of this program, students will be able to:

1. Apply foundational data analysis and statistical modeling techniques to interpret data and generate actionable insights for business decision-making.
2. Employ systems analysis and design methodologies to identify business challenges and implement data-driven solutions
3. Utilize SQL, data mining, and other analytics tools to query, organize, and analyze datasets across various business domains.
4. Create clear and effective data visualizations and reports using modern tools and techniques to communicate findings to diverse audiences.

Review the Associate in Science and Associate in Arts Graduation Requirements (<https://catalog.cccd.edu/coastline/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/coastline/general-education/>) requirements.

Course	Title	Units
Required Core		
Complete the following:		
CIS C111	Information Systems, Programming, and Database Management	3
CIS C157	Introduction to Python Programming	3
CIS C240	SQL Database Development	3
CIS C250	Introduction to Data Analytics	3
CIS C260	Systems Analysis and Design	3
CIS C280	Data Visualization	3
CIS C285	Data Governance, Privacy, and Policies	3
Program Electives		
Select two (2) courses from the following:		6
CIS C190	Introduction to Geographic Information Systems and Techniques with Lab	
CIS C191	Intermediate Geographic Information Systems (GIS)	
CIS C270	Predictive Analytics	
CIS C275	Data Mining and Analytics (Data+)	