DATA ANALYTICS, ASSOCIATE OF SCIENCE DEGREE

Banner Code: 3_AS_DATA
Control Number: 39435
Financial Aid Eligible

This program provides students with a solid foundation in the fields of data science, business intelligence, and analytics. The program is designed to prepare students for entry-level jobs or to help them advance into careers, such as Business Analytics Specialist, Data Analyst, Data Visualization Developer, Operations Research Analyst, and Market Research Analyst. Topics covered include data analysis, data mining, statistical modeling, SQL queries and data views, systems analysis and design, data visualization and reporting, and applied predictive analytics.

Program Level Student Learning Outcomes

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

1. Apply the methods, techniques, and tools relevant to data analytics.
2. Solve organizational problems by applying the methods, techniques, and tools relevant to systems analysis and design.
3. Demonstrate predictive analytics techniques to provide recommendations for common business scenarios.

Associate Degree Requirements

Unit Requirement

Complete at least 60 units of acceptable college work with a minimum of 12 units completed in residence at Coastline. Earn an overall grade point average of 2.0 or higher from all colleges attended and a 2.0 or higher grade point average at Coastline.

*Students must be in good academic standing (not on probation and/or disqualification) during the semester graduation is petitioned.

Program of Study

Complete the required courses in one of the programs as detailed In the Requirements for the Major section of this catalog. All coursework must be completed with a grade of C or higher.

General Education

Complete one of the three General Education options below (visit the General Education page for details (https://catalog.cccd.edu/coastline/general-education/)):

Option 1 — AA/AS Local Degree GE: designed for students pursuing an Associate degree and who may or may not be planning to transfer to a four-year university. The degree is transferable to many colleges and universities.

Option 2—CSU GE Breadth: designed for students who are planning to transfer to a university in the CSU system. It may also be appropriate for transfer to some independent colleges and universities.

Option 3—IGETC: designed for students who are planning to transfer to a university in the CSU or UC system. It also may be appropriate for transfer to some independent colleges and universities.

Global and Multicultural Studies Requirement

Complete at least 2.5 units from any Global and Multicultural Studies courses. See what courses fulfill the Global and Multicultural Studies Requirement (https://catalog.cccd.edu/coastline/graduation-requirements/#globalandmulticulturalstudiestext).

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 C275	Data Mining and Analytics (Data+)	3
Program Electives		
Select one of the following:		3
CIS C190	Introduction to Geographic Information Systems and Techniques with Lab	
CIS C270	Predictive Analytics	
CIS C280	Data Visualization	
Units Required for Major		21

Requirement	Units
Local General Education, CSU General Education, or IGETC pattern	Varies
Electives to satisfy unit requirement	Varies
Total Units for Degree	60

Data Analytics Degree Program Map

This program map is a recommended example of all major (program) requirements as well as general education requirements for two-year completion or transfer. This path may be altered to fit your individual academic needs. This two-year program map was created by program faculty and counselors and demonstrates a recommended path to completion. **Students are advised to meet with a Coastline Counselor for individualized program planning.**

Your Path to Success

Follow this path to earn your degree in Data Analytics in 2 years.

Don't forget to consult a counselor for an education plan!

Course	Title	Units
1st Semester		
ENGL C100	Freshman Composition	4
MATH C160	Introduction to Statistics	4
CMST C101	Fundamentals of Human Communication	3
CIS C111	Information Systems, Programming, and Database Management *	3
CIS C157	Introduction to Python Programming *	3
2nd Semester		

Course	Title	Units
HIST C175	United States History since 1876	3
PSYC C100	Introduction to Psychology	3
ART C101	Survey of Art: Renaissance to Contemporary	3
CIS C240	SQL Database Development	3
CIS C250	Introduction to Data Analytics	3
3rd Semester		
BIOL C100	Introduction to Biology	3
ENGL C102	Critical Reasoning, Reading, and Writing	3
PHIL C120	Ethics	3
CIS C260	Systems Analysis and Design	3
CIS C275	Data Mining and Analytics (Data+)	3
4th Semester		
ASTR C100	Introduction to Astronomy	3
ASTR C100L	Astronomy Laboratory	1
PSCI C180	American Government	3
SOC C233	Racial and Ethnic Relations in America	3
HLTH C100	Personal Health	3
CIS C190	Introduction to Geographic Information Systems and Techniques with Lab *	3
or CIS C270	Predictive Analytics	
or CIS C280	Data Visualization	

* Also offered in the summer term