

Data Science Certificate

General Program Information: 410 287-1000 or information@cecil.edu

The Data Science program offers students an introduction to the field of data science, including the processing, manipulation, analysis, interpretation, and ethical use of data. Specifically, this program focuses on the mathematical and computer science-related aspects of the field.

	Program Requirements (30 credits)	General Education Code	Credits
DSC 201	Data Science I		3
CSC 105	Geographic Information System I	I	3
CSC 109	Introduction to Programming		3
CSC 110	Ethics in Information Technology	I	3
CSC 230	Advanced Programming in Python		3
MAT 127	Introduction to Statistics	M	4
MAT 128	Introduction to Statistics II	M	4
MAT 125 OR MAT 201	Applied Calculus OR Calculus I with Analytic Geometry ¹	M	4

Total Credits Required in Program: 27

Program Learning Goals:

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

- Apply mathematical and statistical principles to analyze data.
- Utilize relevant software to manipulate and analyze data.
- Interpret and communicate results obtained from data analysis.
- Discuss the ethical collection and use of data.

¹ Students planning to take MAT 201 may need to take MAT 191 as a Prerequisite, which will prepare them for the Data Science Degree if they wish to continue.