Data Science

Area of Concentration within the A.A.S. in STEM Technology
Frederick Community College Pathway

Frederick Community College

Catalog Year 2017-2018

Guided Pathway to Success (GPS) Suggested schedules map your path to degree completion.

Full-time student: Follow the green semester blocks in order.

Part-time student: Follow the blue course sequence at your own pace.

Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests. Visit Jefferson Hall or call 301.846.2471 (301.846.2625 TDD) for advising.

Students who take fewer than 15 credits each semester or who require developmental English or Math coursework will need additional semesters to complete their degrees. Summer and January term classes may help students to make faster progress.

General Education CORE courses can often be taken in any semester. One course must be designated as a Cultural Competence course. A minimum of nine credits must be taken at the 200 level. Refer to the college catalog for course details and the list of General Education and Cultural Competence classes. http://www.frederick.edu/class-schedules.aspx#catalog

Students are strongly recommended to consult an FCC advisor to select elective courses. Students planning to transfer may also reference ARTSYS, the Maryland Articulation System, www.artsys.usmd.edu.

🕐 Take this course within the first 24 credits.

✓ Milestone course – take within recommend credit range to stay on track for completion.

🍂 This course is offered in the fall semester only.

🌷 This course is offered in the spring semester only.

① Recommended First Semester

#	Type	Course		Credits
1	Gen Ed CORE	EN 101 English Composition	🕐	3 credits
2	Gen Ed CORE	Mathematics Gen Ed (MA 206 Elementary Statistics recommended)	🕐	3 credits
3	Gen Ed CORE	CIS 106 Object Design and Programming		3 credits
4	Concentration	CIS 111E Spreadsheets		3 credits
5	Concentration	CIS 117 Data Science Essentials		3 credits

② Recommended Second Semester

#	Type	Course	Credits
6	Gen Ed CORE	Art Gen Ed	3 credits
7	Gen Ed CORE	Humanities Gen Ed	3 credits
8	Concentration	CIS 118 Data Analytics Using Spreadsheets	3 credits
9	Concentration	CIS 119 Statistical Analysis System (SAS)	3 credits
10	Concentration	CIS 256 Statistical Computing	3 credits

③ Recommended Third Semester

#	Type	Course	Credits
11	Gen Ed CORE	Science Gen Ed	3/4 credits
12	Gen Ed CORE	Social Science Gen Ed (HS 102 Human Relations recommended)	3 credits
13	Concentration	CIS 203 Systems Analysis & Design	3 credits
14	Concentration	CIS 230 Database Management Systems	3 credits
15	Concentration	CIS 257 Data Visualization	3 credits

④ Recommended Fourth Semester

#	Type	Course	Credits
16	Gen Ed CORE	Communications Gen Ed	3 credits
17	PE/Health	PE/Health Requirement	1/3 credits
18	Concentration	CIS 258 Data Wrangling	3 credits
19	Concentration	CIS 259 Big Data Analytics	3 credits
20	Concentration	Elective	5 credits