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

Frederick Community College

Catalog Year 2019-2020

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 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

#	Category	Course		Credits
1	Gen Ed Core	ENGL 101 - English Composition	🕐	3 credits
2	Gen Ed Core	Mathematics Elective (Gen Ed course list) (MATH 120 - Statistics recommended)	🕐	3 credits
3	Gen Ed Core	CMIS 106 - Object Design and Programming		3 credits
4	Concentration	CMIS 119 - Statistical Analysis System (SAS)		3 credits
5	Elective	Any CMIS or BMGT course		3 credits

2 Recommended Second Semester

#	Category	Course	Credits
6	Gen Ed Core	Arts Elective (Gen Ed course list)	3 credits
7	Gen Ed Core	Humanities Elective (Gen Ed course list)	3 credits
8	Concentration	CMIS 226 - Game Scripting	3 credits
9	Concentration	CMIS 201 - Computer Science I	4 credits
10	Concentration	CMIS 208 - C++ Programming	3 credits

3 Recommended Third Semester

#	Category	Course	Credits
11	Gen Ed Core	Biological & Physical Sciences Elective (Gen Ed course list)	3/4 credits
12	Gen Ed Core	Social & Behavioral Sciences Elective (Gen Ed course list) (HUMS 102 - Human Relations recommended)	3 credits
13	Concentration	CMIS 203 - Systems Analysis & Design	3 credits
14	Concentration	CMIS 256 - Statistical Computing	3 credits
15	Concentration	CMIS 230 - Database Management Systems	3 credits

4 Recommended Fourth Semester

#	Category	Course	Credits
16	Gen Ed Core	Communications Elective (Gen Ed course list)	3 credits
17	PHED/HLTH/NUTR	Physical Education, Health, or Nutrition Requirement	1/3 credits
18	Concentration	CMIS 225C - Mobile App Programming	3 credits
19	Concentration	CMIS 227 - Game Programming	4 credits
20	Elective	Any CMIS or BMGT course	3 credits