COMPUTER STUDIES CERTIFICATE (CAREER)

Program website (https://www.frederick.edu/programs/information-technology/computer-studies.aspx)

Program Description

Designed for students seeking to build skills in the field of computer studies. Involves defining and analyzing problems and developing, testing, and maintaining programs by incorporating a broad range of transferable problem-solving skills and techniques including logical thinking, creative design, synthesis, and evaluation.

Program Learning Outcomes

- Prepare a plan that addresses organizational needs.
- Identify problem requirements that demonstrate understanding of user and technical needs.
- Design problem solutions that solve the requirements.
- Integrate hardware, software, and security models that facilitate project outcomes.

Program Requirements

Code	Title	Credits
Departmental Requirements		
CMSC 105	Introduction to Programming with Python	3
CMIS 120	PC Operating Systems	3
CMIS 203	Systems Analysis & Design	3
CMIS 121	PC Repair & Diagnostics	3
CMIS 218	Information Security	3
or CMIS 179	Cybersecurity Fundamentals	
Electives		
Select 6 credits of the following:		6
	Any BMGT course	
	Any CMIS course	
	Any INTR course	
Total Credits		21

Transfer Note

For more information on careers and transfer, contact the Career and Academic Planning Services office at 301.846.2471 or visit Transfer Services (https://www.frederick.edu/student-resources/counseling-advising/transfer-services.aspx).

Guided Pathway to Success (GPS)

Suggested schedules map your path to degree completion.

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.

Recommended First Semester		Credits
CMSC 105	Introduction to Programming with Python	3
CMIS 120	PC Operating Systems	3
CMIS 121	PC Repair & Diagnostics	3
	Credits	9
Recommended Second Semester		
CMIS 203	Systems Analysis & Design	3

Select one of the following:		3
CMIS 179	Cybersecurity Fundamentals	
CMIS 218	Information Security	
Any BGMT, CMIS, or INTR course		3
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	Credits	12
	Total Credits	21

Part-time Students

Part-time students should complete courses in the order listed on the pathway. Please contact program manager for questions about part-time status.

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 term and January session classes may help students to make faster progress.

Pathway Legend

Milestone - courses with the Milestone notation should be taken within the recommend credit range to stay on track for program completion.

Fall, Spring, Summer - courses with a Fall, Spring, or Summer notation indicate the course is offered in the specified semester only.