Computer Science – Programming
Associate of Applied Science

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

This program introduces students to the various technology domains, including operating systems, networking, data, security and programming. Problem solving and proper algorithm design are emphasized. Students will gain an understanding of abstracted layers and data structures.

	General Education Requirements	*General Education Code*	*Credits*
CSC 104	Computer Science Fundamentals	I	3
CSC 110	Ethics in Information Technology	I	3
EGL 101	Freshman Composition	E	3
MAT	Math Elective	M	4
SCI	Science Elective with Lab	S/SL	4
SOC 101 *or* SOC 105 *or* GEO 102	Introduction to Sociology *or* Perspectives in Human Diversity *or* Cultural Geography	SS	3
SPH 121 *or* SPH 141	Interpersonal Communications or Public Speaking	H	3
	Program Requirements		
CSC 103	Operating Systems		3
CSC 106	Introduction to Programming Logic		3
CSC 109	Introduction to Programming		3
CSC 140	Introduction to Networking		3
CSC 182	Web Application Development		3
CSC 203	Seminar in Information Systems		1
CSC 205	Computer Science I		3
CSC	Computer Science Electives		12
EGL 211	Technical Writing		3
VCP 144	Web Design I - Design Fundamentals		3

Total Credits Required in Program: 60

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

- Analyze problems and develop algorithms
- Design modular software using object oriented programming principles
- Explain the benefits of specific data structures, abstraction, recursion and modular design
- Understand legal and ethical issues associated with computing.
- Create applications in compiled and interpreted programming languages
- Understand the fundamentals of operating systems and networks
- Create technical documentation