

COMPUTER PROGRAMMING

COLLEGE CREDIT CERTIFICATE

Program Code: 3020

Effective Fall 2026 (202710)

Description of Program: The Computer Programming certificate prepares you as an entry-level information technology specialist in the microcomputer environment. A variety of programming languages and software applications courses are available, so you may individualize the program depending on your personal career interests. Hands-on computer experience is emphasized throughout the program. All credits will articulate directly toward the A.S. degree in Computer Programming and Analysis (Program #1610).

Length: 33 credit hours

Prefix Number	Course Title	Credit Hrs.
Fall Term		
CET 1600C	Networking Fundamentals	3
+ CGS 1100C	Introduction to Microcomputers using Windows	(GE) 3
COP 2034	Python Programming I	3
*^ ENC 1101	Freshman English I	(GE) 3
*^#MAC 1105	College Algebra	(GE) <u>3</u>
		15
Spring Term		
COP 2041	Python Programming II	3
COP 2704	Introduction to SQL	3
COP 2810	Programming for the Internet	3
OST 2335	Business Communications	3
**	Programming/Applications Elective	<u>3</u>
		15
Summer Term		
**	Programming/Applications Elective or Professional Elective	<u>3</u>
		3
Programming/Applications Electives:		
Client-Side Programming		
CGS 2820	Introduction to Web Design	3
COP 2250	Java Programming	3
COP 2360	C# Programming	3
COP 2842	Developing Websites using PHP/MySQL	3
Data Analysis		
*CGS 2510C	Spreadsheet Applications	3
*CGS 2565C	Principles of Computer Information Systems	3
Network		
*CET 1660C	Computer Network Security	3
*CET 2662C	Security Testing and Auditing	3
Other		
CIS 2949	Co-op Education Training Assignment in Computer Information Systems	3
COP 2930	Selected Topics in Computer Programming	3
CTS 2142	IT Project Management	3
Professional Electives:		
ACG 2001	Financial Accounting I or	3

ACG 2021	Financial Accounting	3
ENT 1000	Introduction to Entrepreneurship	3
FIN 1100	Personal Finance	3
GEB 1011	Introduction to Business	3
LDR 2001	Introduction to Leadership	3
MAN 2021	Principles of Management	3
MAR 2011	Principles of Marketing	3

* Check the course description for prerequisites.

** It is your responsibility to meet with the instructional supervisor or counselor to select the proper course to fulfill this requirement.

^ It may be necessary to first enroll in a lower-level math course depending on college placement test scores.

MAC 1105 College Algebra is highly recommended.

+ If you do not have basic keyboarding skills, it is suggested that you take OST 1100C Introduction to College Keyboarding as the elective course in the first term.