

INFORMATION TECHNOLOGY (PROGRAMMING AND DEVELOPMENT)

Code	Title	Credit Hours
BADM-1020	Introduction to Business	3
IT-1025	Information Technology Concepts for Programmers	3
IT-1050	Programming Logic	3
Select one of the following: 3		
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Select one of the following: 3		
COMM-1010	Fundamentals of Speech Communication	
COMM-101H	Honors Speech Communication	
IT-1150	Introduction to Web Programming	3
IT-2650	Java Programming	4
IT-2700	Systems Analysis and Design	3
MATH-1xxx	MATH-1000 level course or higher	3
Select one of the following: 3		
BADM-2010	Business Communications	
BADM-201H	Honors Business Communications	
Select one of the following: 1-3		
IT-2830	Cooperative Field Experience ²	
ITNT-2300	Networking Fundamentals ¹	
IT-2320	Interactive Internet Programming	4
IT-2351	Enterprise Database Systems	4
IT-2660	Data Structures & Algorithms	4
Social and Behavioral Science/Natural Science (See requirements) 3		
IT-2030	ASP.NET Web Programming	4
ITXX-xxxx	Programming Elective	3-4
Select one of the following: 3		
PHIL-2020	Ethics	
PHIL-202H	Honors Ethics	
Select one of the following: 3		
BADM-1301	Small Business Management	
ACCT-1311	Financial Accounting	

¹ Course cannot be used for both a requirement and an elective.
ITNT-2300 can only be used to meet an elective requirement for students who successfully complete IT-2830.

Programming Electives

Select from the following courses to fulfill the programming elective requirement. Courses cannot be used for both a requirement and elective (in the case of an "or" selection above):

Code	Title	Credit Hours
IT-2080	Data Visualization	4
IT-2090	Data Analytics Programming	4

IT-2100	iOS Application Programming	4
IT-2110	Android Mobile Application Development	3
ITNT-2300	Networking Fundamentals	3
IT-2600	E-Business Programming Technologies	3
IT-2670	C/C++ Programming Language	4
IT-2680	Visual C# .NET	4
IT-2720	Ethical Hacking and Systems Defense	3
IT-2730	Intrusion Detection/Prevention Systems Fundamentals	3
IT-2740	Fundamentals of Client Operating Systems and Hardware for Cybersecurity	4
IT-2750	Scripting Fundamentals for Cybersecurity	3

Related Degrees and Certificates

- Mobile Application Development, Short-Term Certificate
- Web Application Development, Short-Term Certificate
- Information Technology - Programming and Development, Associate of Applied Business
- Information Technology-Programming and Development, Post-Degree Professional Certificate

Training and Credentials

- Cleveland Codes Tri-C Software Developers Academy