INFORMATION TECHNOLOGY (PROGRAMMING AND DEVELOPMENT)

This program is available to be completed 100% online.

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-2310	Web Programming	3
IT-2650	Java Programming	4
IT-2700	Systems Analysis and Design	3
MATH-1190	Algebraic and Quantitative Reasoning (Or higher Approved Ohio Transfer 36 Mathematics course) [1]	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 [2]	
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	

[2] 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.

[1] MATH-1100 Mathematical Explorations or MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet Mathematics requirement for this program.

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-2070	Introduction to Data Science and Analytics	3
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

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.

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
- .Net Programming, Post-Degree Professional Certificate
- Data Analytics, Post-Degree Professional Certificate
- Information Technology-Programming and Development, Post-Degree Professional Certificate

Training and Credentials

- Cleveland Codes Tri-C Software Developers Academy