Information Technology-Bachelor of Science in Information Technology

For information, contact the CIT Department Office on the Hamilton campus at 301 Mosler Hall, 513-785-3132.

The Bachelor of Science in Information Technology with a major in Information Technology (BSIT) is a broad program of study that prepares students to support the computing infrastructures and needs of individuals and organizations across a variety of domains. Information Technology professionals apply their skills and knowledge to provide technological solutions for those using systems to produce, store, retrieve, analyze and send information. The BSIT program provides a broad foundation of knowledge in IT problem solving, web applications, ethics, databases, human computer interaction, and a deeper area of focus including agile management, software development, or a self designed option (approval required). Students who graduate from this program will have a strong skill set that includes agile practices and ICAgile professional certification(s). In addition to the core courses, students select a focus area. The program culminates with a two-course capstone sequence where students will design and complete a significant IT project that highlights their focus area.

Curriculum Requirements

Students must earn a minimum cumulative GPA of 2.00 for all program requirements.

Program Requirements

(85 semester hours minimum)

Code	Title	Credit Hours
Information Technology Core		
Select the following:		
CIT 101	Computing Skills [1]	1
CIT 163	Introduction to Computer Programming	3
CIT 167	Information Technology People and Practices	2
CIT 168	Information Technology Tools and Techniques for Organizations	3
CIT 181	Network Fundamentals	3
CIT 205	Agile Launchpad I (ICAgile)	3
CIT 225	Fundamentals of DevOps	3
CIT 258	Introduction to Global Cybersecurity	3
CIT 214	Database Design and Development	3
CIT/CSE 262	Technology, Ethics, and Global Society	3
CIT 268	Introduction to Human-Computer Interaction	3
CIT 273	Web Application Development	3
CIT 348	Information Management and Retrieval	3
CIT 376	IT for Organizations	3
CIT 448	Global and Strategic Issues in Information Technology	3
Focus Area		
Select one group:		12
Group A-Software Development		
CIT 171	Beginning Concepts of Object-Oriented Programming	
or CIT 153	Introduction to C/C++ Programming	
CIT 263	Advanced Topics in Programming	
or CIT 253	Contemporary Programming Languages	
CSE 271	Object-Oriented Programming	
CSE 274	Data Abstraction and Data Structures	
Group B-Agile		
Students must take 1 set of programming courses.		
CIT 171	Beginning Concepts of Object-Oriented Programming	
CSE 271	Object-Oriented Programming	
or CIT 253	Contemporary Programming Languages	
or CIT 263	Advanced Topics in Programming	
CIT 306	Agile: Business Value Analysis (ICAgile)	
CIT 307	Agile: Project Management (ICAgile)	
Group C		
Self-Design, petition required		
Senior Capstone		
CIT 457	IT Project Lifecycle I: Requirements and Design	3
CIT 458	IT Project Lifecycle II: Implementation and Deployment	4
Technical Electives		
Select 6 hours of the following: [2]		6
CIT 153	Introduction to C/C++ Programming	
CIT 171	Beginning Concepts of Object-Oriented Programming	
CIT 201	Advanced Spreadsheets and Analytics	
CIT 253	Contemporary Programming Languages	
CIT 263	Advanced Topics in Programming	
CIT 270	Special Topics in Computer and Information Technology	
CIT 281	Enterprise Network Infrastructure	
CIT 284	Enterprise Server Installation and Configuration	
CIT 306	Agile: Business Value Analysis	
CIT 307	Agile: Project Management	
CIT 325	Network Automation	
CIT 338	Business Intelligence Tools	
CIT 358	Ethical Hacking	
CIT 386	Designing/Deploying Secure Networks	
CSE 253	Programming Languages	
CSE 271	Object-Oriented Programming	
CSE 274	Data Abstraction and Data Structures	
Additional Courses		
EGS 319	Medical Writing	3
ENG 111	Composition and Rhetoric	3

or ENG 109	Composition and Rhetoric for Second-Language Writers	
ENG 313	Technical Writing	3
or EGS 215	Workplace Writing	
MTH 122	College Algebra (or higher)	3
STA 261	Statistics	3-4
or STA 301	Applied Statistics	
or STA 125	Introduction to Business Statistics	
STC 136		3
Total Credit Hours		**85-86**

[1] Students must take CIT 101S *Computing Skills: Spreadsheets*. Students with prior spreadsheet experience can opt out of this course with the approval of their advisor.

[2] May not select courses used to meet other program requirements. Other technical electives must be pre-approved.