

Information Technology Minor

Advising Sheet: 2021-2022 Catalog

The IT minor is designed primarily for students who desire to augment the knowledge gained through their major-related courses with a foundation of information technology (IT) topics and their application within organizations to achieve organizational objectives. Completing this minor provides students with the necessary skills to improve their attractiveness to employers in our technology-driven society. The minor requires a minimum of 18 credits, including 12 credits of core courses. Beyond these requirements, students must select two additional technical focus courses (6 credits). Students pursuing the IT minor should consult with an advisor to select their additional courses.

Students must have a C or better in any course that satisfies a prerequisite for an IT course. To graduate with the Information Technology Minor, students must have a GPA of 2.00 or better across all courses applied to the Information Technology Minor. Additionally, if a technical focus course requires a minimum B in a specified course, students will be held to meeting this prerequisite.

CORE			
COURSE	SEMESTER	GRADE	COMPLETED?
IT 102 (3) <i>Discrete Structures</i> OR MATH 125 (3) <i>Discrete Mathematics I</i>			
IT 104 (3) <i>Introduction to Computing</i>			
IT 105 (3) <i>IT Architecture Fundamentals</i>			
IT 106 (3) <i>Introduction to IT Problem Solving Using Computer Programming</i> OR IT 109 (3) <i>Introduction to Computer Programming</i>			
TECHNICAL FOCUS			
<i>Students must select 6 credits of approved Technical Focus courses from the catalog. At least 3 credits must beat the 300/400 level. Students must satisfy all prerequisites and other requirements in order to take any of the courses listed below. Courses chosen for the technical focus must be chosen with a coordinator in the Information Sciences and Technology department. Not all courses are offered each semester.</i>			

To declare the IT Minor:

In order to declare the IT Minor, students must earn a minimum 2.5 GPA in completed 100- and 200-level IT core courses required for the minor (from IT 102 or MATH 125, IT 104, IT 105, IT 106 or IT 109, and any technical focus courses being applied to the IT minor), and a minimum C in IT 106 or IT 109. Grades in approved course substitutions taken at Mason will be included.

Note: IT courses at the 300 and 400 level are restricted to students who have declared an Information Technology major, minor, or undergraduate certificate, and to students in the BAS or BIS program. IT 293 Applied IT: Junior Transition and IT 343 IT Project Management are restricted to students who have declared an Information Technology major. Students who have declared an Information Technology Minor will not be permitted to take IT 293 or IT 343.

Student's Name: _____

Student's G#: _____

Date: _____

Advisor Seen: _____

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Technical Focus Course Options:

IT 206	Object Oriented Techniques for IT Problem Solving	3
IT 209	Introduction to Object Oriented Programming	3
IT 207	Applied IT Programming	3
IT 213	Multimedia and Web Design	3
IT 214	Database Fundamentals	3
IT 223	Information Security Fundamentals	3
IT 300	Modern Telecommunications	3
IT 306	Program Design and Data Structures	3
IT 309	Data Structures and Algorithms in Python	3
IT 314	Database Programming	3
IT 315	Mobile Development	3
IT 322	Health Data Challenges	3
IT 324	Health Information Technology Fundamentals	3
IT 328	Health Information Emerging Technologies	3
IT 331	Web I: Web Development	3
IT 332	Web Server Administration	3
IT 335	Web Development using Content Management Systems	3
IT 341	Data Communications and Network Principles	3
IT 352	Security Administration of Linux Systems	3
IT 353	Information Defense Technologies	3
IT 357	Computer Crime, Forensics, and Auditing	3
IT 366	Network Security I	3
IT 369	Data and Application Security	3
IT 390	Rapid Development of Scalable Applications	3
IT 410	Web Programming	3
IT 413	Digital Media Editing	3
IT 414	Database Administration	3
IT 415	Information Visualization	3
IT 429	Security Accreditation of Information Systems	3
IT 431	Web II: Advanced Web Development	3
IT 442	Cloud Infrastructure	3
IT 445	Advanced Networking Principles	3
IT 451	Cloud Services Management	3
IT 455	Wireless Communications and Networking	3
IT 461	Application Development in Cloud	3
IT 462	Information Security Principles	3
IT 466	Network Security II	3
IT 467	Network Defense	3
IT 471	Big Data on Cloud Systems	3
IT 481	Cloud Security	3
IT 484	Voice Communications Technologies	3
IT 488	Fundamentals of Satellite Communications	3