

# Information Technology Minor Advising Sheet: 2019-2020 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>			
<b>TECHNICAL FOCUS</b> <i>Students must select 6 credits of approved Technical Focus courses from the catalog. At least 3 credits must be at 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.</i> <i>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:** \_\_\_\_\_

# Information Technology Minor

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### Technical Focus Course Options:

IT 206	<i>Object Oriented Techniques for IT Problem Solving</i>	3
IT 209	<i>Introduction to Object Oriented Programming</i>	3
IT 207	<i>Applied IT Programming</i>	3
IT 213	<i>Multimedia and Web Design</i>	3
IT 214	<i>Database Fundamentals</i>	3
IT 223	<i>Information Security Fundamentals</i>	3
IT 300	<i>Modern Telecommunications</i>	3
IT 306	<i>Program Design and Data Structures</i>	3
IT 314	<i>Database Programming</i>	3
IT 315	<i>Mobile Development</i>	3
IT 322	<i>Health Data Challenges</i>	3
IT 324	<i>Health Information Technology Fundamentals</i>	3
IT 328	<i>Health Information Emerging Technologies</i>	3
IT 331	<i>Web I: Web Development</i>	3
IT 332	<i>Web Server Administration</i>	3
IT 335	<i>Web Development using Content Management Systems</i>	3
IT 341	<i>Data Communications and Network Principles</i>	3
IT 353	<i>Information Defense Technologies</i>	3
IT 357	<i>Computer Crime, Forensics, and Auditing</i>	3
IT 366	<i>Network Security I</i>	3
IT 390	<i>Rapid Development of Scalable Applications</i>	3
IT 410	<i>Web Programming</i>	3
IT 413	<i>Digital Media Editing</i>	3
IT 414	<i>Database Administration</i>	3
IT 415	<i>Information Visualization</i>	3
IT 431	<i>Web II: Advanced Web Development</i>	3
IT 441	<i>Network Servers and Infrastructures</i>	3
IT 445	<i>Advanced Networking Principles</i>	3
IT 455	<i>Wireless Communications and Networking</i>	3
IT 462	<i>Information Security Principles</i>	3
IT 465	<i>Peer-to-Peer Systems and Overlay Networks</i>	3
IT 466	<i>Network Security II</i>	3
IT 467	<i>Network Defense</i>	3
IT 484	<i>Voice Communications Technologies</i>	3
IT 488	<i>Fundamentals of Satellite Communications</i>	3