

INFORMATION TECHNOLOGY MINOR

2019 - 2020

Purpose of Program

The Information Technology (IT) minor is designed for students who desire to augment the knowledge gained through their major-related courses with a foundation of 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 IT technical focus courses (6 credits) at least one of which must be at the upper 300- or 400- level. Students pursuing the IT minor should consult with an advisor to select their technical focus courses.

Declaration Criteria

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 or CS 112, and any technical focus courses being applied to the IT minor), and a minimum C in IT 106 or IT 109 or CS 112 and CS 211. 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 IT 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 IT major. Students who have declared an IT Minor will not be permitted to take IT 293 or IT 343.

IT Minor Requirements (18 credits)

The IT minor requires 12 semester hours of core courses and six semester hours of technical focus courses. Students must earn a minimum grade of C in all IT courses for the minor. Technical focus courses selected for the IT minor must be selected from the courses listed in the University catalog. A minimum of 8 credits must be unique to the IT minor.

Required Core Courses (12 Credits)

	Credits
IT 102 Discrete Structures <i>or</i> MATH 125 Discrete Mathematics I	3
IT 104 Introduction to Computing	3
IT 105 IT Architecture Fundamentals	3
IT 106 Introduction to IT Problem Solving Using Computer Programming	3
<i>or</i> IT 109 Introduction to Computer Programming	3

Technical Focus Courses (6 credits)

Six credits of courses with the IT prefix not listed in the core. At least 3 credits must be upper division level (300 or above).

This document provides general information about the IT minor for information purposes only. The definitive statement of policy and requirements is the University Catalog (<http://catalog.gmu.edu>). In the event of any differences between this sheet and the Catalog, the latter prevails.

Program Questions? Email: bsit@gmu.edu; Website: <http://ist.gmu.edu>; Advising Appointments: <http://ist.gmu.edu/go/advising>

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Information Technology Minor 2019-2020 Catalog

Technical Focus Course Options:

IT 206	<i>Object Oriented Techniques for IT Problem Solving</i>	3
IT 207	<i>Applied IT Programming</i>	3
IT 209	<i>Introduction to Object Oriented 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>Data Structures and Algorithms in Java</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>	3
IT 390	<i>Rapid Development of Scalable Cloud 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>Applied Cyber Threat Analysis</i>	3
IT 465	<i>Peer-to-Peer Systems and Overlay Networks</i>	3
IT 466	<i>Foundations of Cryptography and Security</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