

INFORMATION TECHNOLOGY MINOR 2018 - 2019

Purpose of Program

The Information Technology minor is designed 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 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 the 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), and a minimum C in IT 106 or IT 109. Grades in approved course substitution 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.

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 <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), from the approved list in the University catalog.

This document provides general information about the Information Technology 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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4400 University Dr., Fairfax, VA 22030, MSN 1G8
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10900 University Blvd., Manassas, VA 20110, MSN 4F5
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Banner Code: INFT	IT 300	Modern Telecommunications	3
Academic Advising	IT 306	Program Design and Data Structures	3
5400 Nguyen Engineering Building	IT 308	Event-Driven Programming	3
Fairfax Campus	IT 314	Database Programming	3
101 Bull Run Hall	IT 315	Mobile Development	3
Science and Technology Campus	IT 322	Health Data Challenges	3
Phone: 703-993-3565	IT 324	Health Information Technology Fundamentals	3
Email: bsit@gmu.edu	IT 328	Health Information Emerging Technologies	3
Website: http://ist.gmu.edu/programs/undergraduate-programs/	IT 331	Web 1: 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 344	Information Storage and Management Technologies	3
	IT 353	Information Defense Technologies	3
	IT 357	Computer Crime, Forensics, and Auditing	3
	IT 366	Network Security I	3
	IT 390	Rapid Development of Scalable Application	3
	IT 410	Web Programming	3
	IT 413	Digital Media Editing	3
	IT 414	Database Administration	3
	IT 415	Information Visualization	3
	IT 431	Web II: Advanced Web Development	3
	IT 436	Agile Web Development with Open Source Frameworks	3
	IT 441	Network Servers and Infrastructures	3
	IT 445	Advanced Networking Principles	3
	IT 455	Wireless Communications and Networking	3
	IT 462	Information Security Principles	3
	IT 465	Peer-to-Peer Systems and Overlay Networks	3
	IT 466	Network Security II	3
	IT 467	Network Defense	3
	IT 484	Voice Communications Technologies	3
	IT 488	Fundamentals of Satellite Communications	3

Requirements			
Minor Requirements			
Total Credits: 18			
Core Courses			
IT 102	Discrete Structures	3	
<u>or</u> MATH 125	Discrete Mathematics I (Mason Core)		
IT 104	Introduction to Computing (Mason Core)	3	
IT 105	IT Architecture Fundamentals	3	
IT 106	Introduction to IT Problem Solving Using Computer Programming	3	
<u>or</u> IT 109	Introduction to Computer Programming		
Total Credits		12	
Technical Focus Courses			
Select 6 credits from Technical Focus Courses (at least 3 upper division credits)		6	
Total Credits		6	

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.

Code	Title	Credits
IT 206	Object Oriented Techniques for IT Problem Solving	3
IT 209	Intro 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