

INFORMATION TECHNOLOGY MINOR

Banner Code: INFT

Academic Advising

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Fairfax Campus

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Science and Technology Campus

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The 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.

Requirements

Minor Requirements

Total credits: 18

Core Courses

IT 102	Discrete Structures	3
or 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
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 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 304	IT in the Global Economy (Mason Core)	3
IT 306	Program Design and Data Structures	3
IT 308	Event-Driven Programming	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 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 Applications	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