

# Information Technology Minor Advising Sheet: 2015-2016 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.

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>			
<b>TECHNICAL FOCUS</b> <i>Students must select 6 credits of approved Technical Focus courses from the catalog. 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>			

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 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 304	<i>IT in the Global Economy (Mason Core)</i>	3
IT 306	<i>Program Design and Data Structures</i>	3
IT 308	<i>Event-Driven Programming</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 344	<i>Information Storage and Management Technologies</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 436	<i>Agile Web Development with Open Source Frameworks</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