

Information Technology Undergraduate Certificate Advising Sheet: 2021-2022 Catalog

This certificate is designed primarily for those students who have earned a bachelor's degree or current undergraduate students who desire deeper knowledge than what can be accomplished through the IT minor. It allows students 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 undergraduate certificate provides students with the necessary skills to improve their attractiveness to employers in our technology-driven society. The certificate requires a minimum of 24 credits, including 15 credits of core courses. Beyond these requirements, students must select three additional IT courses (9 credits, at least 3 upper division credits). Students pursuing the IT undergraduate certificate should consult with an advisor to select their additional courses.

Students pursuing only the undergraduate certificate in information technology will not maintain full-time status which requires a minimum of 12 credits per semester.

Students must complete all requirements within a concentration.

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>			
Choose 1 from: (IT 206 or IT 209), IT 207, IT 213, IT 214, IT 223			
TECHNICAL FOCUS			
<i>Students must select 9 credits from the approved list of technical focus courses; at least 3 of those credits must be at the upper division (300/400 level). Students must satisfy all prerequisites and other requirements in order to take any of the technical focus courses. 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: _____

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IT 206	Object Oriented Techniques for IT Problem Solving	3
IT 209	Introduction to 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
IT 300	Modern Telecommunications	3
IT 304	IT in the Global Economy	3
IT 306	Data Structures and Algorithms in Python	3
IT 309	Data Structures and Algorithms in Java	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 342	Operating Systems Fundamentals	3
IT 352	Security Administration of Linux Systems	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 409	Python Web Programming	3
IT 410	Web Programming	3
IT 413	Digital Media Editing	3
IT 414	Database Administration	3
IT 415	Information Visualization	3
IT 429	Security Accreditation of Information Systems	3
IT 431	Web II: Advanced Web Development	3
IT 442	Cloud Infrastructure	3
IT 445	Advanced Networking Principles	3
IT 451	Cloud Services Management	3
IT 455	Wireless Communications and Networking	3
IT 461	Application Development in Cloud	3
IT 462	Information Security Principles	3
IT 466	Network Security II	3
IT 467	Network Defense	3
IT 471	Big Data on Cloud Systems	3
IT 481	Cloud Security	3
IT 484	Voice Communications Technologies	3
IT 488	Fundamentals of Satellite Communications	3