

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (CREDIT-HOUR)

This program of study emphasizes the foundations of Information Technology (IT) and the latest practical technologies. Students interested in working in the areas of IT analysis and design, network administration, information security management and/or IT project management would benefit from this degree program.

Mission

The Bachelor of Science in Information Technology (BSIT) prepares students for career opportunities, advancement, participation and service a variety of 21st century IT specializations.

Program Learning Outcomes

- **Interpersonal Skills:** Demonstrate written and oral communication skills in collaborative environments.
- **Problem Solving:** Apply current IT tools and techniques to solve multi-faceted technological issues.
- **Professionalism and Ethics:** Engage in IT professional, ethical, legal, and social responsibilities and practices.
- **IT Integration:** Apply IT best practices and standards to integrate systems to address a business need.
- **Information Assurance:** Employ current information assurance principles to manage risk.

Degree Requirements

In addition to the University general education and elective requirements, the BSIT major consists of two components. The first component consists of 39 credits of common requirement courses (See Common Requirements). The second component consists of either electives or an emphasis area for a total of 9 upper-division credits. Note: some courses may be used to fulfill both the major and general education requirements (see the General Education Requirements section of this catalog).

All courses taken in the major program must be passed with a grade equivalent of "C" or higher. All required courses must be taken for a letter grade where the option exists.

Common Requirements

COMU 410	Organizational Communication	3
CSCU 251	Introduction to Computing Systems Organization	3
CSCU 270	Information System Security	3
CSCU 301	Introduction to Programming	3
CSCU 353	Data Communications and Computer Networks	3
CSCU 360	Web Design Technologies	3
CSCU 361	Operating Systems	3
CSCU 397	User Experience and Interaction Design	3
CSCU 408	Database Management	3
CSCU 498	Capstone Project	3
MATU 203	Introduction to Statistics	3
OLCU 350	Leadership and Professional Ethics	3

OLCU 414	Team Building	3
Common Requirements Subtotal		39

Electives or Emphasis Areas

Students choose three approved elective courses, gain Dean's approval for alternative courses, or may select the emphasis area below.

Elective or Emphasis Subtotal		9
Total Credits		48

Electives

Select three courses from the following approved electives:

CSCU 200	Introduction to Computers and Data Processing	3
CSCU 315	Organizational Information Systems	3
CSCU 375	Data Encryptions and Information Security	3
CSCU 383	Applied Project Management	3
CSCU 385	Project Work Structure and Resources Management	3
CSCU 415	Systems Quality Assurance and Testing	3
CSCU 453	Network Implementation	3
CSCU 483	Project Risk Management	3
OLCU 303	Organizational Development and Change	3

Total Credits		9
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Emphasis Area

Project Management Emphasis

CSCU 383	Applied Project Management	3
CSCU 385	Project Work Structure and Resources Management	3
CSCU 483	Project Risk Management	3

Total Credits		9
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Students with IT professional certification(s) may substitute courses as outlined below provided that their certification(s) are unexpired and currently recognized in the field. Refer to UMassGlobal for additional information on IT certification substitutions listed by catalog year.

Industry Standard Certification	Substitution Course
MCSE, CCNP, MCSA: Windows Server	CSCU 353; CSCU 453
Oracle DBA, MCDDBA, MCSA: SQL Server 2008, MCSA: SQL Server 2012	CSCU 408; CSCU 453
CompTIA A+	CSCU 251
CompTIA Network+	CSCU 353
CompTIA Security+	CSCU 270
CompTIA Cloud Essentials	CSCC 475 (approved substitution for CSCU 251)
VCP (VMWare Certified Professional)	CSCU 251; CSCU 353
RHCSA (Red Hat Systems Administrator)	CSCU 251; CSCU 353
CASP (CompTIA Advanced Security Practitioner)	CSCU 270; CSCU 375

CISSP (Certified Information Systems Security Professional)	CSCU 270; CSCU 375
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CEH (Certified Ethical Hacker)	CSCU 270; CSCU 375
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CISM (Certified Information Security Manager)	CSCU 270; CSCU 375
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CISA (Certified Information Systems Auditor)	CSCU 270; CSCU 375
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PMP (project management professional)	CSCU 383; CSCU 385
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Six Sigma Green Belt	CSCU 383; CSCU 415
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CCNA (Cisco Certified Network Associate)	CSCU 353
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CompTIA IT Fundamentals	CSCU 200
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