



TUI University

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TUI University Catalog 2009 - 2010



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College of Information Systems

The mission of the College of Information Systems is to prepare its students to effectively function in the rapidly changing information technology field. Our student-centered philosophy uniquely serves those information systems students who have traditionally been underserved due to limitations of time, distance, and/or occupation. Using appropriate delivery systems, our degree programs emphasize the management of emerging information technologies within the social and structural interfaces of organizations.

Bachelor of Science in Computer Sciences

The purpose of the Bachelor of Science in Computer Science program is to prepare students for entry-level computer science positions in business, industry, and not-for-profit organizations. Specifically, the program is designed to assist candidates to obtain quality undergraduate-level content expertise in software engineering with emphasis on e-business infrastructure. This program includes quality undergraduate-level hands-on exposure to computer programming, databases, computer operating systems and structure, networks, dynamic web engineering, security, and web services. All courses are application based.

The graduate should be able to function at the professional entry level in his/her chosen field of computer science.

The Bachelor of Science in Computer Science program requires 120 semester units to complete.

Admission Standards

High school graduate:

- High school diploma or its equivalent.
- High School transcripts will be required if transferring less than 36 credits into the BSBA program.
- International students must have a TOEFL exam score of 500/173/61.

Transfer from other institutions, up to 88 semester credits:

- Transfer from an accredited college or university or its international equivalent.
- Accepting transfer credits such as ACE, CLEP, DANTES, and Excelsior etc.
- GPA 2.0 or better (the student may be accepted on a conditional basis if the overall GPA is below 2.0).
- All transferred courses must have the grade of C or better.

Degree Requirements

Math and Science Required Core Courses (20 Credits)

MAT 101 – College Mathematics	4 Credits	Description
MAT201 – Basic Statistics	4 Credits	Description
SCI201 – Applied Physics I	4 Credits	Description
SCI202 – Applied Physics II	4 Credits	Description
SCI204 – Applied Scientific Inquiry	4 Credits	Description

General Education Courses (40 Credits)

ART101 – Art History	4 Credits	Description
ENG101 –English Composition I	4 Credits	Description
ENG102 –English Composition II	4 Credits	Description
ENG201 – American Literature	4 Credits	Description
ECO201 -Microeconomics	4 Credits	Description
ECO202 -Macroeconomics	4 Credits	Description
HIS101 – Modern World History	4 Credits	Description
MAT202 – Advanced Mathematics	4 Credits	Description
MAT275 – Linear Algebra	4 Credits	Description
PHI201 – Western Philosophy	4 Credits	Description
PSY101 – Foundations of Psychology	4 Credits	Description
SOC201 – Foundations of Sociology	4 Credits	Description
STS401 – Statistical Analysis	4 Credits	Description
SVC101 – Introduction to Speech and Verbal Communications	4 Credits	Description

Computer Science Required Core Courses (60 Credits)

CSC111 – Foundations of Computing and Program Design	4 Credits	Description
CSC113 – Introduction to Object Oriented Programming	4 Credits	Description
CSC212 – Intermediate Object Oriented Programming	4 Credits	Description
CSC310 – Advanced Programming Topics	4 Credits	Description
CSC316 – Database Systems I	4 Credits	Description
CSC317 – Database Systems II	4 Credits	Description
CSC320 – Web Engineering and Programming I	4 Credits	Description
CSC325 – Operating Systems and Environments	4 Credits	Description
CSC405 – Web Engineering & Programming II	4 Credits	Description
CSC412 – Client Server Networks and Distributed Processing	4 Credits	Description
CSC414 – Advanced Networking: Wireless Hybrid Networks	4 Credits	Description
CSC422 – Web Services	4 Credits	Description
CSC423 – Web Services II	4 Credits	Description
CSC425 – BSCS Integrative Project (Capstone)	4 Credits	Description
ITM434 – Business Ethics and Social Issues in Computing	4 Credits	Description

Bachelor of Science in Computer Science Summary

General Education Courses	40 Credits
Math and Science Core Courses	20 Credits
Computer Science Core Courses	60 Credits
Total Credits	120 Credits

Transfer Policy

- The transferring institution must be an accredited college/ university.
- TUI University will accept up to 88 semester credits from an accredited college/university.
- TUI University may, after review, approve other transfer credits such as ACE, CLEP, DANTES, etc.
- The transferred course must meet the same general content standards as the TUI University course.
- A total of 32 semester credits must be earned at TUI University.

Bachelor of Science in Information Technology Management

The purpose of the Bachelor of Science in Information Technology Management program is to prepare students for entry-level information technology management positions in business, industry, and not-for-profit organizations. Specifically, the program is designed to assist candidates to obtain quality undergraduate-level content expertise in all of the functional areas of Information Technology Management. This program includes quality undergraduate-level development in Information Technology Management areas with special emphasis in global applications and ethical considerations.

The graduate should be able to function at the professional entry level in his/her chosen field of Information Technology Management; to use the Internet and other resources to remain current in his/her chosen field and to research specific topics; to read analytically and think critically; to demonstrate effective written and oral communication skills in a business environment.; to be an effective collaborative team member; to receive a specific assignment in his/her field and effectively carry through to completion of the assignment; to enter an accredited Master's program without further preparation.

The Bachelor of Science in Information Technology Management program requires 120 semester units to complete.

Admission Standards

High school graduate:

- High school diploma or its equivalent.
- High School transcripts will be required if transferring less than 36 credits into the BSBA program.
- International students must have a TOEFL exam score of 500/173/61.

Transfer from other institutions, up to 88 semester credits:

- Transfer from an accredited college or university or its international equivalent.
- Accepting transfer credits such as ACE, CLEP, DANTES, and Excelsior etc.
- GPA 2.0 or better (the student may be accepted on a conditional basis if the overall GPA is below 2.0).
- All transferred courses must have the grade of C or better.

Degree Requirements

General Education Elective Courses (68 Credits)

ACC202 – Managerial Accounting	4 Credits	Description
BUS303 – Business Communication	4 Credits	Description
BUS401 – International Business	4 Credits	Description
ITM205 – Object Oriented Programming	4 Credits	Description
MAT201 – Basic Statistics	4 Credits	Description
MAT202 – Advanced Mathematics	4 Credits	Description
MGT301 – Principles of Management	4 Credits	Description
STS401 – Statistical Analysis	4 Credits	Description
ACC201 – Financial Accounting	4 Credits	Description
BUS205 – Business Law	4 Credits	Description
ECO201 – Microeconomics	4 Credits	Description
ECO202 – Macroeconomics	4 Credits	Description
ENG101 – English Composition I	4 Credits	Description
ENG201 – American Literature	4 Credits	Description
MAT275 – Linear Algebra	4 Credits	Description
OPM300 – Introductions to Operations Management	4 Credits	Description
SCI201 – Applied Physics I	4 Credits	Description
SCI202 – Applied Physics II	4 Credits	Description
SCI204 – Applied Scientific Inquiry	4 Credits	Description
ART101 – Art History	4 Credits	Description
HIS101 – Modern World History	4 Credits	Description
PHI201 – Western Philosophy	4 Credits	Description
PSY101 – Foundations of Psychology	4 Credits	Description
SOC201 – Foundations of Sociology	4 Credits	Description

SVC 305 - Speech and Verbal Communications	4 Credits	Description
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BSITM Required Core Courses (52 Credits)

ITM425 – Introduction to Computing	4 Credits	Description
ITM423 – Systems Acquisition, Systems Development, and Project Management	4 Credits	Description
ITM424 – Introduction to Software and Technical Support	4 Credits	Description
ITM431 – Introduction to IT Security	4 Credits	Description
ITM432 – Principles of Finance and Financial Information Systems	4 Credits	Description
ITM433 – Computer-Human Interaction, Groupware, and Usability	4 Credits	Description
ITM434 – Business Ethics and Social Issues in Computing	4 Credits	Description
ITM435 – Marketing and Marketing Information Systems	4 Credits	Description
ITM436 – Operations Management and Operations Information Systems	4 Credits	Description
ITM440 – Database Technology and Database Administration	4 Credits	Description
ITM441 – Network Technology and Network Administration	4 Credits	Description
ITM442 – Knowledge Management, Business Intelligence, and Enterprise Systems	4 Credits	Description
ITM491 – BSITM Integrative Project (Capstone)	4 Credits	Description

Transfer Policies

- The transferring institution must be an accredited college/ university.
- TUI University will accept up to 88 semester credits from a college/university.
- TUI University may, after review, approve other transfer credits such as ACE, CLEP, DANTES, etc.
- The transferred course must meet the same general content standards as the TUI University course.
- A total of 32 semester credits must be earned at TUI University.

Master of Science in Information Technology Management

The program is designed to provide candidates with the general management and technical skills to perform at the middle management level in their functional areas of information technology management. The curriculum prepares students to manage organizational information technology departments in the national and international arenas.

The graduate should be able to:

1. Function at the professional middle management level in his/her chosen field of information technology management.
2. Demonstrate effective written communication in an advanced information technology environment.
3. Perform critical analysis of complex information technology situations and offer and evaluate alternative solutions.
4. Apply information technology knowledge, concepts, and frameworks to dynamic business situations.
5. Marshal and manage relevant information technology resources particularly in uncertain and global business environments.
6. Integrate, apply, and synthesize knowledge across the functional areas of information technology.
7. Demonstrate awareness of and work effectively in a diverse organization within an information technology environment.
8. Recognize, analyze, and confront ethical and social responsibility issues in information technology management.
9. The Master of Information Technology Management program requires 36 semester credits to complete.

Admission Requirements

Students seeking admission to any Graduate Program at TUI University must provide a baccalaureate degree transcript from an accredited college or university in a related field, with a minimum GPA of 2.5 or better.

International students must have a minimum TOEFL of 525/197/71

Transfer Policies

TUI University may transfer up to 30% of the semester credits required to complete the specific Master's level program. The transferring course(s) must be from accredited graduate level institution(s); must meet the same general content standards as the TUI University courses; and must have earned a Grade of "B" (3.0) or better.

Requirements for Graduation

To qualify for the M.S. degree in Information Technology students must successfully fulfill both of the following requirements:

- Complete each required graduate course with a grade of "B-" (2.67) or better.
- Maintain an overall GPA of "B" (3.0) or better for all graduate level coursework applying toward the degree.

Degree Requirements

ITM525 – Management of Information Technology in Organizations	4 Credits	Description
ITM527 – IT Security and Disaster Recovery Management	4 Credits	Description
ITM540 – Database & Knowledge-base Management	4 Credits	Description
ITM524 – Foundations of Information Technology Management	4 Credits	Description
ITM580 – Strategic Planning for IT	4 Credits	Description
ITM590 – Integrated Project (Capstone Course)	4 Credits	Description

Concentrations Courses (12 Credits)

Business Intelligence

Objectives

1. Function at the IT Management level in areas dealing with Business Intelligence
2. Demonstrate effective written communication in an advanced business intelligence environment
3. Perform critical analysis of complex situations within business intelligence systems and offer and evaluate alternative solutions
4. Apply IT management and technical knowledge, concepts, and frameworks to dynamic situations within business intelligence systems
5. Marshal and manage relevant resources within business intelligence systems particularly in an uncertain global environment
6. Integrate, apply, and synthesize knowledge across the functional areas of IT organizations
7. Demonstrate awareness of and work effectively in a diverse organization which emphasizes business intelligence activities
8. Recognize, analyze, and confront ethical and social responsibility issues in the business intelligence field

BUS504 – Contemporary Business Research Methodology	4 Credits	Description
ITM535 – Business Intelligence, Data Mining, Data Warehousing, Data Analysis	4 Credits	Description
ITM538 – Knowledge Management & Information Services	4 Credits	Description

Information Security / Assurance and Digital Forensics

Objectives

1. Function at the IT Management level in areas dealing with Information Security
2. Demonstrate effective written communication in an advanced information security environment
3. Perform critical analysis of complex situations dealing with information security in complex systems and offer and evaluate alternative solutions
4. Apply IT management and technical knowledge, concepts, and frameworks to dynamic situations which demand information security and assurance
5. Marshal and manage relevant resources within the systems environment to address information security issues particularly in an uncertain global environment
6. Integrate, apply, and synthesize knowledge across the functional areas of IT organizations to improve information security and assurance
7. Demonstrate awareness of and work effectively in a diverse organization which emphasizes information security and assurance activities
8. Recognize, analyze, and confront ethical and social responsibility issues impacting information security and assurance

ITM517 – Information Security Overview for Managers and Policy Makers	4 Credits	Description
ITM537 – Principles of Information Security Auditing and Digital Forensics	4 Credits	Description
ITM550 - Network Planning and Administration	4 Credits	Description

There is no thesis or comprehensive examination for the Master of Information Technology Management degree program.

IT Project Management

Objectives

1. Function at the professional entry level in his/her chosen field of project management.
2. Use the Internet and other resources to remain current in project management.
3. Research specific topics in the core areas of project management.
4. Make effective decisions within project management using appropriate analytical and critical thinking processes.
5. Demonstrate effective written communication skills in a project management environment.
6. Develop a foundation of project management knowledge useful for advance project management certifications.

ITM533 – IT Projects, Logistics, and Contract Management	4 Credits	Description
ACC504 – Issues in Managerial Accounting	4 Credits	Description
ITM530 – Managing IT Systems in Context of Multiple Stakeholders Expectations	4 Credits	Description

Choose any 3 of the electives if no concentration is desired:

ITM515 – Customer Relations Management Technologies	4 Credits	Description
ITM530 – Managing IT Systems Development in Context of Multiple Stakeholder Expectations	4 Credits	Description
ITM533 – IT Project, Logistics and Contract Management	4 Credits	Description
ITM538 – Knowledge Management & Information Services	4 Credits	Description
ITM550 – Network Planning and Administration	4 Credits	Description
ITM560 – IT Management for Specialized Technologies: E-Business, E-Learning, Human Resource, Customer Relations Management	4 Credits	Description
ITM570 – Managing IT Change in an Environment of Emerging IT Technologies	4 Credits	Description

Graduate Certificates

TUIU offers Undergraduate and Graduate Certificates as part of the Undergraduate or Graduate programs respectively.

Students may apply to a specific program where the certificate is usually a special track/concentration within the program. Students categorically -- can **only** enroll in degree programs, even though they may receive documentation of having passed certain benchmarks. A certificate is a benchmark reached after completion of 4 (or more courses) within a specific program such as MBA–Certificate in Human Resource Management. The benefit is that a student who completes a cluster of courses, reaching the benchmark, may receive the certificate and continue with his/her degree program.

The MSITM program offers three (3) graduate certificates. The certificate courses may be taken as part of the MSITM program or taken as an extension of the MSITM program. The students will take 40 units of credit for the MSITM degree and an accompanying certificate; this includes the six required courses for the MSITM and the four courses comprising the desired Certificate. The Certificates offered are **Business Intelligence, Information Security/Assurance and Digital Forensics, and IT Project Management.**

All students seeking a Graduate Certificate must be admitted to TUI University as a regularly admitted graduate student.

Admission Standards

- Possess a baccalaureate degree from an accredited college or university in business or related field with a minimum GPA of 2.0. Submit transcripts of undergraduate and all prior graduate work.

Academic Requirements

To be awarded the graduate certificate, the student must earn a minimum “B-” (2.67) in the courses that constitute the certificate, with an overall program GPA of “B” (3.0) or better. Programs may require higher academic requirements for their specific certificates.

Graduate Certificate in Business Intelligence

The goal of the Graduate Certificate in Business Intelligence is to provide information technology managers, and others holding a bachelor's degree, the opportunity to master the advanced concepts and techniques which will enable them to apply the principles and best practices of business intelligence such as data mining, relational database design, data analytics, data warehousing, project management and other related applications. The emphasis is on the management practices for successful business intelligence application rather than the technical, detailed analytical tool side, and includes both the theoretical concepts and the application of these concepts to business intelligence practice. The certificate consists of a series of four graduate-level credit courses designed to provide graduates with cutting-edge methods based on research confirmed in practice in all types of organizations and industries. An elective course provides students with an opportunity for a hands-on applied project utilizing business intelligence tools.

Students must hold a bachelor's degree from an accredited institution and be enrolled in the MSITM program.

Required Courses (12 Credits)

BUS504 - Contemporary Business Research Methodology	4 Credits	Description
ITM540 - Database and Knowledge Base Management	4 Credits	Description
ITM535 - Business Intelligence, Data Mining, Data Warehousing, Data Analysis	4 Credits	Description

Elective Courses (4 Credits)

Please choose one (1) course from the following

ITM533 - Project, Logistics and Contract Management	4 Credits	Description
ITM545 - Business Intelligence Project Design	4 Credits	Description
ITM538 - Knowledge Mgmt and Information Systems	4 Credits	Description
ITM515 - Customer Relations Management Technologies	4 Credits	Description

Graduate Certificate in Information Security/Assurance and Digital Forensics

The goal of the Graduate Certificate in Information Security is to provide professionals the opportunity to master the principles and best practices to better address the increasing global and local information security concerns. Because of the continuous advancements in information technologies, security risks have also increased. Public and private institutions wishing to maintain and improve their position in today's digital economy have a great need for skilled IT security professionals. This certification will prepare students for understanding, developing, managing and controlling security policies and standards aimed to protect the information assets of an organization and its users. The emphasis of this certification is on policy issues, auditing and forensics that should be implemented for prevention, detection and mitigation of security attacks. The certificate consists of a series of four graduate-level credit courses designed to provide graduates with the latest security principles and approaches confirmed in practice in all types of organizations and industries, including an elective course providing students with an opportunity to concentrate on a specific area of emphasis within which information security finds applications

Students must hold a bachelor's degree from an accredited institution and be enrolled in the MSITM program.

Total credit requirement for the Graduate Certificate is: 16 credits.

Required Courses (12 Credits)

ITM517 – Information Security Overview for Managers and Policy Makers	4 Credits	Description
ITM527 - IT Security and Disaster Recovery Management	4 Credits	Description
ITM537 – Principles of Information Security Auditing and Computer Forensics	4 Credits	Description

Elective Courses (4 Credits)

Please choose one (1) course from the following

ITM540 – Database and Knowledge Base Management	4 Credits	Description
ITM550 – Network planning & Administration	4 Credits	Description
ITM570 – Managing IT Change in an Environment of Emerging IT Technologies	4 Credits	Description

Graduate Certificate in IT Project Management

The goal of the Graduate Certificate in IT Project Management is to provide IT professionals the opportunity to master the principles and best practices to better address the increasing global and projects that are planned, negotiated, managed and completed. Because of the continuous advancements in information technologies and other tools, project management skills may be more formalized and more effectively utilized in organizations. Public and private institutions wishing to maintain and improve their position in today's competitive global economy have a great need for skilled IT project management professionals who understand IT management and systems. This certification will prepare students for understanding, developing, managing and controlling, deploying projects from those relatively small in scope and size to those which are massive in scope and size. The emphasis of this certification is on both management skills and tools, and management awareness of information technologies and accounting/financing tools for cost control. The certificate consists of a series of four graduate-level credit courses designed to provide graduates with the project management principles and approaches confirmed in practice in all types of organizations and industries. Three courses are required with an elective course which provides students with an opportunity to concentrate on a specific area of emphasis within the project management domain.

Students must hold a bachelor's degree from an accredited institution and be enrolled in the MSITM program.

Total credit requirement for the Graduate Certificate is: 16 credits.

Required Courses (12 Credits)

ITM533 – Project, Logistics, and Contract Management	4 Credits	Description
ACC504 – Issues in Managerial Accounting	4 Credits	Description
ITM530 – Managing IT Systems Development in Context of Multiple Stakeholder Expectations	4 Credits	Description

Elective Courses (4 Credits)

Please choose one (1) course from the following

ITM570 – Managing IT Change in an Environment of Emerging IT Technologies	4 Credits	Description
NCM512 – Negotiation Strategies	4 Credits	Description

NCM501 – Foundations of Conflict Resolution	4 Credits	Description
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