

# Bachelor of Science in Information Technology Management

The Bachelor of Science in Information Technology Management focuses on the problem-solving skills and techniques needed to provide computer-based solutions to practical problems. You'll be taught how to develop and communicate technological solutions, manage systems operations, improve and evaluate products, provide customer support, and facilitate technology transfer in both the public and private sectors. You'll also learn to apply ethical judgments and critical thinking to assess the impact of information technology on contemporary social, political, and economic issues. This bachelor's degree program helps to prepare you for a broad range of IT possibilities often required in a number of fields.

Some courses in this program meet the topical requirements for CompTIA Project+® Certification, the Microsoft Office Word® 2013 Certification, and the Internet Business Foundations curriculum of the CIW® Foundations Certification.

*CompTIA Project+® is a registered trademark of the Computing Technology Industry Association.*

*Microsoft Office Word® is a registered trademark of Microsoft Corporation.*

*CIW® is a registered trademark of Certification Partners, LLC.*

## Degree Program Objectives

In addition to the institutional and degree level learning objectives, graduates of this program are expected to achieve these learning outcomes:

- Develop key strategies and tactics using the theories, practices, and tools of information technology and business enterprise management.
- Apply effective strategies to address user needs.
- Demonstrate understanding of ethical practices, communication and teamwork as a professional in the technology industry.
- Demonstrate use of computer applications to enhance productivity.
- Apply industry driven techniques for initiating, planning, executing, monitoring, and controlling projects.
- Build business plans and projects with an understanding of principles and practices of business solutions, e-commerce, software development, database systems, networks, information

systems, information security, and information technology project planning.

## Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	30
	Major Required	42
	Select 1 of the following concentrations:	15
	General (p. 2)	
	Cybersecurity Management (p. 2)	
	Negotiation (p. 3)	
	Final Program Requirements	3
	Elective Requirements	30
	<b>Total Semester Hours</b>	<b>120</b>

## Degree Program Requirements

### General Education Requirements (30 semester hours)

Code	Title	Semester Hours
<b>Arts and Humanities (6 semester hours)</b>		
PHIL200	Introduction to Ethics	3
STEM270	Thinking and Acting Ethically	3
<b>Civics, Political and Social Sciences (6 semester hours)</b>		
COMM211	Social Media and Society	3
STEM280	Exploring Society and Cultures via Science Fiction	3
<b>Communication: Writing, Oral, and Multimedia (9 semester hours)</b>		
COMM120	Information and Digital Literacy	3
ENGL110	Making Writing Relevant	3
ITCC231	Introduction to Information Technology Writing	3
<b>History (3 semester hours)</b>		
STEM185	The History and Context of STEM	3
<b>Mathematics and Applied Reasoning (3 semester hours)</b>		
MATH110	College Algebra	3
<b>Natural Sciences (3 semester hours)</b>		
STEM100	Introduction to STEM Disciplines	3
	<b>Total Semester Hours</b>	<b>30</b>

## Major Required (42 semester hours)

Code	Title	Semester Hours
ITCC121	Introduction to Computer Science	3
ITCC200	Application Software Integration	3
WEBD122	Introduction to Web Analytics	3
ENTD200	Fundamentals of Programming	3
MGMT100	Human Relations	3
INFO331	Management Information Systems	3
BUSN320	Principles of E Business	3
ITMG221	IT Project Management	3
WEBD321	Web eCommerce Development	3
INFO222	Database Concepts	3
ISSC231	Networking Concepts	3
ISSC363	IT Security: Risk Management	3
STEM380	Coevolution of Society, Culture, and Technology	3
Select 1 course from the following:		3
STEM470	Cybersecurity, Surveillance, Privacy and Ethics	
STEM471	Analytics, Algorithms, AI, and Humanity	
Total Semester Hours		42

Students must choose a concentration for this degree program and may select from a General Concentration, Concentration in Cybersecurity Management, or a Concentration in Negotiation.

## General Concentration (15 semester hours)

This concentration expands on the processes and goals of project management; it explores realistic application of Project Management tools using MS Project software, contemporary internet topics associated with project management, cyberlaw and privacy in a digital age, and vital components of ethics affecting how governments and organizations think about project management. This concentration builds your skills and abilities to initiate, plan, execute, monitor, control, and close projects, while producing management quality and monitoring risks.

### Objectives

Upon successful completion of this concentration, the student will be able to:

- Identify the models and strategies of project management.
- Explain the use of project management tools in an organization.
- Interpret the different techniques of project management.
- Apply effective strategies of project management.

## Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
ITMG222	IT Project Management Using MS Project	3
ITMG371	Contemporary Internet Topics	3
ITMG281	Law, Privacy, and Digital Data	3
ITMG421	Virtual Management	3
ITMG481	Ethics in Information Technology	3
Total Semester Hours		15

## Concentration in Cybersecurity Management (15 semester hours)

This concentration expands on the processes and goals of cybersecurity management; it explores basic understanding of information security, information assurance, legal issues, and vital components of cybercrimes affecting how governments and organizations think about and manage information security. The course provides you industry-based cybersecurity management strategies, techniques, guidelines, procedures and recommendations. It positions you to manage information technology operations more effectively.

### Objectives

Upon successful completion of this concentration, the student will be able to:

- Identify the models and strategies used in cybersecurity management.
- Explain the need of effective security measures in an organization.
- Analyze the differences between information security and information assurance.
- Develop effective cybersecurity management strategies to address cyber crimes.

## Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
ISSC422	Information Security	3
ISSC361	Information Assurance	3
ISSC331	Legal Issues in Information Security	3
ISSC451	Cybercrime	3
ISSC452	Cybersecurity	3
Total Semester Hours		15

## Concentration in Negotiation (15 semester hours)

This concentration expands on the processes and goals of negotiation; it explores basic understanding of negotiation, supply chain risk management, fundamentals of contracting and acquisition, and vital components of cost analysis and negotiation techniques influencing how governments and organizations think about bargaining and integrative negotiation. It helps you become more effective in delivering win-win agreements and distinguish the differences between integrative negotiation and distributive bargaining.

### Objectives

Upon successful completion of this concentration, the student will be able to:

- Identify the models and strategies for reaching resolution of conflicts.
- Explain the use of negotiation process in an organization.
- Analyze the differences between distributive bargaining and Integrative Negotiation.
- Interpret the different forms of negotiation and conflict resolution methods.
- Develop effective strategies to manage negotiations within relationships.
- Apply negotiation-based decisions to facilitate successful results.

### Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
HRMT300	Negotiation I	3
HRMT301	Negotiation II	3
HRMT411	Dispute Resolution	3
DEFM200	Fundamentals of Contracting and Acquisition	3
DEFM420	Cost Analysis and Negotiation Techniques	3
Total Semester Hours		15

## Final Program Requirements (3 semester hours)

Code	Title	Semester Hours
ITMG498	IT Management: Senior Seminar (to be taken as the last course before graduation)	3
Total Semester Hours		3

## Elective Requirements (30 semester hours)

Code	Title	Semester Hours
Select any courses not already taken to fulfill the requirements listed above. Credits applied toward a minor or certificate in an unrelated field may be used to fulfill elective credit for the major.		
Total Semester Hours		30