

# COMPUTER INFORMATION TECHNOLOGY: CYBER SECURITY, B.A.

## Program Learning Outcomes

- Students will be able to identify and evaluate information technology infrastructure necessary to meet an organization's business needs.
- Students will be able to develop, plan and evaluate appropriate processes for managing information systems and information technology projects.
- Students will be able to design, develop, and evaluate software solutions to meet an organization's business needs.
- Students will be able to apply their technical knowledge to solve problems.
- Students will be able to speak about their work with precision, clarity and organization (Oral Communication)
- Students will be able to write about their work with precision, clarity and organization (Written Communication)
- Students will collaborate effectively in teams.
- Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).
- Students will be able to gather relevant information, examine information and form a conclusion based on that information (Critical Thinking).
- Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).
- Students will understand the professional, ethical, legal, security, and social issues and responsibilities that come with the implementation and use of information technology.

### Graduates will be prepared for:

- entry level careers in information technology in business, government, and the non-profit sector; and
- graduate study in information technology and related fields.

## Introductory Courses

Students need to have taken introductory courses in each of the following:

- A+ Preparation
- Cyber Security Analyst
- Ethical Hacking or Penetration Testing
- Linux/Unix
- Networking
- Security
- Windows

CIT 3031	Security+ Exam Prep <sup>1</sup>	1
CIT 3034	Project Management	4
CIT 3054	Database Design	4
CIT 3064	Web Design and Scripting	4
CIT 3074	Cloud Computing	4
CIT 4014	Web Programming	4
CIT 4024	Visual Programming	4
CIT 4034	Management of Information Systems	4
CIT 4062	Topics in Cyber Security	2
CIT 4081	Information Technology Project	1
<b>Total Units</b>		<b>38</b>

<sup>1</sup> Students who already have this certification will be allowed to substitute an alternative one-unit class:

- CIT 1041 - Intermediate Excel (1)
- CIT 3021 - Network+ Exam Prep (1)
- CIT 3031 - Security+ Exam Prep (1)
- CIT 3041 - Project+ Exam Prep (1)
- CIT 3081 - Cloud+ Exam Prep (1)
- CIT 4071 - Information Technology Practicum (1#4)

Code	Title	Units
<b>Required Courses</b>		
BST 3004 (B,C,J,L)	Biblical Perspectives (GE)	4
CIT 2071	A+ Core 1 Exam Prep <sup>1</sup>	1
CIT 2081	A+ Core 2 Exam Prep <sup>1</sup>	1