

COMPUTER INFORMATION TECHNOLOGY: CYBER SECURITY, B.A. (HYBRID)

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 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 understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).
- Students will collaborate effectively in teams.
- Students will understand the professional, ethical, legal, security, and social issues and responsibilities that come with the implementation and use of information technology.

Program Prerequisites

At least two (2) of the four (4) program prerequisites below must be completed at an accredited college before the CIT: Cyber Security program, and all four (4) must be completed before starting CIT 4062 which is taken during the second-to-last semester of the program:

- Windows Server
- Linux/Unix
- Cyber Security Analyst or Cyber Forensics
- Ethical Hacking or Penetration Testing

Because CIT 2034, CIT 3014, and CIT 3024 are not offered through the MiraCosta program, students starting the program on the MiraCosta campus will need to pass Computer Hardware/Operating Systems, Networking, and Cyber Security courses before they can start the CIT: Cyber Security program.

Code	Title	Units
Required Courses		
CIT 2034	Fundamentals of Computer Hardware and Operating Systems	4
CIT 2061	Tech+ Exam Prep	1
CIT 2071	A+ Core 1 Exam Prep ¹	1
CIT 2081	A+ Core 2 Exam Prep ¹	1
CIT 3014	Networking	4

CIT 3024	Security and Information Assurance	4
CIT 3031	Security+ Exam Prep ¹	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
CST 1000	Introduction to the Christian Tradition (GE)	3
Total Units		50

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

- 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)