Cambridge Technical College

# Diploma of Cyber Security

In recent years, cyber security has become vital in all organizations. There is a growing need to acquire in-demand skills and specialized knowledge in all aspects of cyber security to mitigate this risk. Through lab activities and cutting-edge tools, you will build the professional skills required to pursue a career in cybersecurity The Cybersecurity Program provides training in the basics of cybersecurity.

The program will focus on information, security procedures, and processes used in all types of business, government and non-profit environments. The program includes training in security fundamentals, networking and defense fundamentals, identity and access management, cryptography concepts, system administration, logging, monitoring, programming, web security, project management, and threats and vulnerabilities. The need for cybersecurity expertise will only increase as our connected world evolves.

Gain the ability to anticipate information security risks and implement new ways to protect networks and prevent cyber-attacks of different types.

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| **Program** | **Diploma of Cyber Security** |
| **Credit Hours** | **72 Credits** |
| **Duration** | **Academic Year (9 Months)** |
| **Fees** | **2500 USD ($)** |
| **Scholarship Fees** | **1500 USD ($)** |

## SYLLABUS

| DIPLOMA OF CYBER SECURITY | | |
|---|---|---|
| **SUBJECT** | **CODE** | **CREDIT HOURS** |
| **English Language** | **EN101** | **6** |
| **Introduction To Information Technology** | **CP241** | **3** |
| **Operating Systems** | **CP242** | **6** |
| **Database Management** | **CP243** | **3** |
| **Networks** | **CP246** | **6** |
| **Introduction to Ethical Hacking** | **CS231** | **3** |
| **Cyber Security 1** | **CS232** | **15** |
| **Cyber Security 2** | **CS233** | **12** |
| **Graduation Project** | **CS234** | **18** |

- **Cyber Security 1+2 include:**
  - **Design & System Architecture**
  - **Networking Methodologies**
  - **OSINT & Reconnaissance, Footprinting**
  - **Wireless Security**
  - **Scanning & Sniffing**
  - **Enumeration**
  - **Threat Analysis & Malware**
  - **System Architecture Security**
  - **Cloud Computing & Security**
  - **Denial of Service: Functionality & Defense**
  - **Network Security**
  - **Web Application Security**
  - **Cryptography**
  - **Honeypots & Evading IDS/IPS, Firewall & Configuring**