

# Certificate in Cyber Defense

---

## Undergraduate Certificate in Cyber Defense

The Undergraduate Certificate in Cyber Defense is administered through the Department of Computer Science and Software Engineering. It is designed to equip students with the knowledge and skills needed to enter the workforce prepared to address security threats. In completing the requirements, students will gain valuable skills and experience that will help them better address needs of industry.

Students earn the certificate by completing the following courses with at least a grade of C:

Code	Title	Hours
COMP 5350	Digital Forensics	3
COMP 5370	Computer and Network Security	3
COMP 5530	Secure Cloud Computing: Principles, Practice, and Applications	3
COMP 5700	Secure Software Process	3
COMP 5830	Cybersecurity Threats and Countermeasures	3
COMP 5870	Security Integration and Application	1
<b>Total Hours</b>		<b>16</b>

Applications for the Undergraduate Certificate in Cyber Defense program are considered on a competitive basis.

Applicants are expected to have a strong foundation in computer science and software engineering, as demonstrated by past performance in the following courses (or equivalent courses):

Code	Title	Hours
COMP 1210	Fundamentals of Computing I	3
COMP 2210	Fundamentals of Computing II	4
COMP 3220	Principles of Programming Languages	3
COMP 3270	Introduction to Algorithms	3
COMP 3500	Introduction to Operating Systems	3
COMP 3700	Software Modeling and Design	3
COMP 4300	Computer Architecture	3
COMP 4320	Introduction to Computer Networks	3
COMP 4730	Computer Ethics	2
COMP 5120	Database Systems I	3