



BACHELOR OF SCIENCE IN CYBERSECURITY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING UNDERGRADUATE PROGRAMS

- B.S. Computer Science
- B.S. Data Science (coming fall 2024)
- B.S. Information Technology
- B.S. Cybersecurity (coming fall 2023)
- B.S. Artificial Intelligence (coming fall 2023)
- 4+1 – B.S./M.S. combined in 5 years:
 - Computer Science
 - Software Engineering and Information Technology
 - Cybersecurity

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Engineering Center, Room 546
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oakland.edu/secs/departments/cse

SCAN THE QR CODE FOR MORE INFORMATION



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OAKLAND UNIVERSITY
SCHOOL OF ENGINEERING AND COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CAREERS IN CYBERSECURITY

Pursue a career in one of the fastest growing, in-demand areas of computing and technology! In today's digital world, cybersecurity has become an essential part of every company's strategy for sustainability, security, and growth. As businesses grow, the demand for cybersecurity talent will only continue to increase. Cybersecurity job growth is projected to soar by a whopping 35% in the next decade, with high demand in many industries and median salaries \$100,000 and above.

BACHELOR OF SCIENCE IN CYBERSECURITY

The interdisciplinary nature of the Bachelor of Science in Cybersecurity at Oakland University aims to serve IT, financial, research, healthcare, law enforcement and defense organizations through its specialized concentrations. Students will be prepared for employment in the public and private sectors.

Oakland University is a National Science Foundation SA Center of Academic Excellence and Information Assurance and Cyber Defense (CAE-IA/CD) Education.

CORE COURSES

- Introduction to C Programming and Unix
- Object-Oriented Computing
- Computer Systems
- Fundamentals of Cybersecurity
- Introduction to Computer Networks
- Sophomore Project

PROFESSIONAL SUBJECTS

- Software Engineering and Practice
- Database Design and Implementation
- System Administration
- Cloud Computing
- Cyber Laws and Digital Forensics
- Information Security Practice
- Network Security
- Software Security
- Cybercrime
- Risk Analysis and Security Controls Development
- Senior Capstone Project

PROFESSIONAL TRACKS

Select one track

Software Security

- Software Verification and Testing
- Mobile Security
- Reverse Engineering and Malware Analysis

AI in Cybersecurity Track

- Artificial Intelligence
- AI for Cybersecurity and Privacy
- Multimedia Forensics

Cyber Physical System Security Track

- Fundamentals of Embedded System Design
- Industrial Control Security
- Automotive Security
- Embedded Security