COMPUTER ENGINEERING TECHNOLOGY - MINOR

College of Aeronautics and Engineering
School of Engineering
www.kent.edu/cae

About This Program

The Computer Engineering Technology minor provides the foundation for students to study the design of network systems, telecommunications systems, networking hardware and computer hardware engineering and architecture technologies. Students have the opportunity to conceptualize, develop and analyze requirements engineering specifications for practical systems.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
ENGR 26305	NETWORKING I	2
ENGR 26306	NETWORKING I LABORATORY	1
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
Minor Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 23010	COMPUTER HARDWARE	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	
ENGR 36305 & ENGR 36306	NETWORKING II and NETWORKING II LABORATORY	
ENGR 46305 & ENGR 46306	NETWORK SECURITY and NETWORK SECURITY LABORATORY	
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	
ENGR 46317 & ENGR 46318	SERVER ADMINISTRATION AND CONFIGURATION II and SERVER ADMINISTRATION AND CONFIG II - LABORATORY	
ENGR 46330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	
ENGR 46351 & ENGR 46352	NETWORK MANAGEMENT AND DESIGN and NETWORK MANAGEMENT AND DESIGN LABORATORY	
ENGR 47200	SYSTEMS ENGINEERING	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate basic applied knowledge of cybersecurity, computer hardware, networking hardware and information technology security.