



**Department of Technology  
College of Business & Technology**

# Computer Electronic Networking (B.S.)

## Computer Electronic Networking at EKU

Eastern Kentucky University's Department of Technology offers a four-year degree program in Computer Electronic Networking (CEN) that leads to the Bachelor of Science degree. Students enrolled on a full-time basis can complete the program in eight semesters. This program prepares students to serve in a wide range of companies and other organizations where installation, monitoring, support, analysis, security and troubleshooting of Local Area Networks (LAN), Wide Area Networks (WAN) and Internet Systems is required. The ongoing expansion of networked computer systems and online commercial services assures exciting opportunities for skilled professionals in this area. The Computer Electronic Networking program is accredited by the Association of Technology, Management and Applied Engineering (ATMAE).

## Computer Electronic Networking Careers

Graduates from EKU in the Computer Electronic Networking program are prepared to begin work in many professions in the computer networking field. After passing certification exams, many alumni of the program find careers as network managers or network specialists in fields including banking, healthcare, manufacturing and more. Job experience is highly valued by Computer Electronic Networking employers. Cooperative education is an option in the Computer Electronic Networking program that provides graduates valuable business and industry experience. With resumes that reflect technical and managerial classes, co-op experience and computer certifications, graduates often find rewarding careers and fast advancement in the computer electronic networking field.

## Department Facilities, Faculty and Student Organizations

The Department of Technology is located in the Ralph W. Whalin Technology Complex which includes approximately 100,000 square feet of classroom and laboratory space. Laboratories housed in the Whalin Complex include aviation, automation, electronics, computer aided drafting (CAD), graphic communications, quality assurance, metrology, industrial materials, metallic processes, construction estimating, fluid power and computer applications. The facilities are located in the central portion of campus, close to the library, classroom buildings and dormitories. Faculty in the department have diversified academic and experience backgrounds. They are experienced, enthusiastic and devoted to providing students the skills necessary to succeed.

The primary organization for students in the Computer Electronic Networking degree program is the Eastern Student Computer Association (ESCA). ESCA is a student-led organization that holds lunch meetings many times per month with presentations on current computing topics such as operating systems, motherboards, displays, gaming, memory, wireless computing, studying for certification and other topics identified by students or the faculty advisor.

### Suggested First Semester/First Year

BTO 100	Academic Orientation	1
CSC 160	Intro to Programming	3
EET 251	Electricity & Electronics	3
EET 252	Digital Electronics	3
ENG 101	English Composition I <b>or</b>	
ENG 105	English Composition Honors	3
Block VI	Wellness	3
<b>Total Hours:</b>		<b>16</b>

### For More Information

Office of Admissions  
SSB CPO 54  
Eastern Kentucky University  
521 Lancaster Avenue  
Richmond, KY 40475-3102  
800-465-9191  
859-622-2106  
[www.eku.edu](http://www.eku.edu)

Department of Technology  
307 Whalin Complex  
Eastern Kentucky University  
521 Lancaster Avenue  
Richmond, KY 40475-3102  
859-622-3232  
[www.technology.eku.edu](http://www.technology.eku.edu)



# University requirements for: **Computer Electronic Networking (B.S.)**

## **Total Required Courses** **University Requirement (1 hour)** BTO 100 (Academic Orientation)

## **General Education Requirements (30 hours)** Courses selected from Communication, Arts & Humanities, Natural Sciences, Social & Behavioral Sciences, Wellness, and Breadth and Depth of Knowledge.

## **College Requirement: Professional Skills Seminar** BTS 300 (Juniors) and BTS 400 (Seniors)

## **Supporting Course Requirements (46 hours)** Intro to Computer Programming and Intro to Visual Basic or Intro to C++, Economics, Trigonometry and Calculus, Quality Control, Computer Communications in Industry, Manufacturing Planning Systems, Human Resources Development, Physics I & II, Statistics, Computer Applications in Technology, and 3 hours of approved upper division electives.

## **Major Requirements (42 hours)** Courses in the Computer Electronic Networking major include:

- EET 251 Electricity & Electronics
  - EET 252 Digital Electronics
  - EET 253 Microprocessor Systems
  - EET 254 Machine Language for Microcontrollers
  - EET 257 Circuits & Electronic Devices
  - EET 302 PC Troubleshooting & Construction
  - EET 303 LANs & PC Communications
  - EET 343 Network Switches & Routers
  - EET 351 Programmable Logic Controllers
  - EET 403 Advanced LANs & PC Communications
- or**
- EET 452 Electrical Power & Drives
  - EET 440 Fiber-Optics & Communications
  - EET 499 CEN Capstone Project
- Select 6 hours from:**
- EET 349 Cooperative Education
  - EET 354 Microcomputer & Network Security
  - EET 395 Special Topics in CET/CEN

## **Free Electives (9 hours)**

## **Total Curriculum Requirements (128 hours)**

## **EASTERN KENTUCKY UNIVERSITY**

As you consider where you'll pursue your studies, Eastern Kentucky University encourages you to ask yourself, "What do I want to do with my life?" and "Who can help me reach that destination?"

Before we tell you about ECU, let's focus on your needs. What are you looking for in a college or university?

- Renowned, accessible professors; low student/faculty ratio
- State-of-the-art facilities
- Extensive curriculum
- Wide network of campus organizations
- Affordable cost
- Inviting campus

Achieving your goals depends on the quality of the faculty and curriculum at the school you choose to attend. Every college and university touts facilities, but few can match the accolades of our faculty. At ECU you'll reach beyond the borders of classroom discussion to hands-on experience and networking opportunities with experts in the field.

ECU graduates are world leaders in areas as diverse as international business and homeland security; local, state and national government; as well as drama and law. Campus facilities, such as the Studio for Academic Creativity, which is designed to enhance research, writing, and presentation skills, and our new state-of-the-art science building, ensure our students of exposure to technologies vital to real world success.

### **We hope you'll see that from our view there no limitations, just possibilities.**

- A comprehensive, public university serving more than 16,000 students.
- Undergraduate and graduate excellence through 168 associate, baccalaureate, master's, specialist and cooperative doctoral programs.
- Quality and diversity in faculty and staff.
- Student/professor ratio of 17:1.
- 66-acre main campus in Richmond, regional campuses in Corbin, Danville, Lancaster and Manchester, and higher education centers throughout the Commonwealth.

Eastern Kentucky University is an Equal Opportunity/Affirmative Action employer and educational institution and does not discriminate on the basis of age, race, color, religion, sex, sexual orientation, disability, national origin, or Vietnam era or other veteran status, in the admission to, or participation in, any education program or activity which it conducts, or in any employment policy or practice. Any complaint arising by reason of alleged discrimination should be directed to the Equal Opportunity Office, Eastern Kentucky University, Jones Building, Room 409, Coates CPO 37A, Richmond, Kentucky 40475-3102, (859) 622-8020 (V/TDD), or the Director of the Office for Civil Rights, U.S. Department of Education, Philadelphia, PA.