



# EASTERN KENTUCKY UNIVERSITY

## College of Business & Technology

### SUGGESTED CURRICULUM GUIDE FOR COMPUTER ELECTRONIC NETWORKING (B.S. DEGREE) Fall 2008

Eastern Kentucky University's Department of Technology offers a four-year Bachelor of Science degree program in Computer Electronics Technology (CEN). Students enrolled on a full-time basis can complete the program in eight semesters. This program prepares students to provide computer and network administration expertise for software users in a broad range of work environments, such as professional offices, businesses, corporations and government 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.

#### Freshman (1<sup>st</sup> Semester) 16 hrs

- BTO 100 Orientation (1 hr)
- CSC 160 Intro to Programming
- EET 251 Electricity & Electronics
- EET 252 Digital Electronics
- ENG 101 or 105 English Composition
- Block VI Wellness

#### Sophomore (1<sup>st</sup> Semester) 18 hrs

- CSC 177 Intro. to Visual Basic or CSC 190 Intro to C++
- ECO 230 Economics
- EET 254 Machine Lang. for Microcontrollers
- EET 303 LANs & PC Communications
- EET 351 Programmable Logic Controllers
- MAT 261 or 211 Calculus

#### Junior (1<sup>st</sup> Semester) 15 hrs

- EET 395 Special Topics or EET 354 Microcomputer & Network Security or EET349 Co-op
- INT 202 Quality Control
- Block III A Arts
- Block VA History
- Upper Division Free Elective

#### Senior (1<sup>st</sup> Semester) 15 hrs

- EET 395 Special Topics or EET 354 Microcomputer & Network Security or EET349 Co-op
- EET 440 Fiber-Optics & Communications
- INT 406 Manufacturing Planning Systems
- Block IV A Biological Lab. Science
- Block V C Select from VA or VB

#### Freshman (2<sup>nd</sup> Semester) 18 hrs

- EET 253 Microprocessor Systems
- EET 257 Circuits & Electronic Devices
- EET 302 PC Troubleshooting & Construction
- ENG 102 English Composition II
- MAT 108 Trigonometry
- TEC 161 Computer Applications in Tech.

#### Sophomore (2<sup>nd</sup> Spring Semester) 17 hrs

- CMS 100 Intro. to Human Communication or CMS 210 Public Speaking
- EET 343 Network Switches & Routers
- PHY 131 College Physics I (5 hrs)
- STA 215 or 270 Stats or QMB 200 Business Stats I
- Block III B Humanities

#### Junior (2<sup>nd</sup> Semester) 15 hrs

- EET 452 Electrical Power & Drives or EET 403 Adv. LANs & PC Communications
- INT 310 Comp. Communications in Industry
- PHY 132 College Physics II (5 hrs)
- Free Elective (3 hrs)
- Upper Division Free Elective (1 hr)
- BTS 300 Business & Technology Seminar (0 credit)

#### Senior (2<sup>nd</sup> Semester) 14 hrs

- EET 499 CEN Capstone Project
- INT 408 Human Resources Development
- Block VII AH or QS or SBS
- Free Elective (2 hrs)
- Upper Division Management Supporting Course (3 hrs)\*\*
- BTS 400 Business and Technology Seminar (0 credit)
- Exit Exam Departmental (0 credit)

\*\* (Elective approved by major advisor in ACC, CCT, CIS, FIN, GBU, INS, INT, MGT, MKT, QMB, or RST)

### BACHELOR OF SCIENCE – Department of Technology Computer Electronic Networking

University Requirements .....	1 hr
BTO 100.	
General Education Requirements .....	30 hrs
Standard General Education program, excluding blocks II, IVB, VB, VII (NS), and VIII (6 hours). Refer to Section Four of this Catalog for details on the General Education and University requirements.	
College Requirement: Professional Skills Seminar .....	
BTS 300 (CR) and BTS 400 (CR).	
Supporting Courses .....	46 hrs
CSC 160 and (CSC 177 or 190); ECO 230, MAT 108 and (211 or 261), INT 202, 310, 406, 408; PHY 131, 132; STA 215 or STA 270 or QMB 200; TEC 161; and 3 upper division hrs of ACC*, CCT*, CIS*, FIN*, GBU*, INS*, INT*, MGT*, MKT*, QMB*, or RST* electives as approved by major advisor.	
Free Electives .....	9 hrs
(A minimum of 4 semester hours must be Upper Division courses including Cooperative Education.)	
Major Requirements .....	42 hrs
EET 251, 252, 253, 254, 257, 302, 303, 343, 351, 403 or 452, 440, 499; Select 6 hrs from EET 349, 354, 395.	
Total Curriculum Requirements .....	128 hrs
*Prerequisite may be required for some course selections.	
Graduates must have an overall GPA of 2.25 in major requirements.	
Students must take a Computer Electronic Networking exit examination before graduation.	
The CEN program is accredited by the National Association of Industrial Technology (NAIT).	

The Department of Technology's CEN degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's (formerly Lexington Community College) Associate in Applied Science Degree in Engineering Technology with Electrical Specialization.

