

Computer Electronic Networking

Bachelor of Science Degree

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.

First Year/Fall Semester

BTO 100	Academic Orientation	1
CSC 160	Introduction to Programming	3
EET 251	Electricity & Electronics	3
EET 252	Digital Electronics	3
ENG 101	English Composition I or	
	ENG 105 First year writing seminar	3
Gen Ed	Block VI (Wellness)	<u>3</u>
		16

First Year/Spring Semester

EET 253	Microprocessor Systems	3
EET 257	Circuits & Electronic Devices	3
EET 302	PC Troubleshooting & Construction	3
ENG 102	English Composition II or	
	ENG 105 English Composition Honors	3
MAT 108	Trigonometry	3
TEC 161	Computer Applications in Tech.	<u>3</u>
		18

Second Year/Fall Semester

CSC 177	Intro. to Visual Basic or	
	CSC 190 Introduction to C++	3
ECO 230	Principles of Economics	3
EET 254	Machine Lang. for Microcontrollers	3
EET 303	LANs & PC Communications	3
EET 351	Programmable Logic Controllers	3
MAT 261	Calculus with Apps. for Science I	<u>3</u>
		18

Second Year/Spring Semester

CMS 100	Intro. to Human Communication or	
	CMS 210 Public Speaking	3
EET 343	Network Switches & Routers	3
PHY 131	College Physics I	5
STA 270	Applied Statistics or	
	QMB 200 Business Statistics I	3
Gen. Ed.	Block III B (Humanities)	<u>3</u>
		17

Third Year/Fall Semester

EET 395	Special Topics in CET/CEN	3
INT 202	Quality Control	3
Gen. Ed.	Block III A (Arts)	3
Gen. Ed.	Block V A (History)	3
Upper Division Elective		3
UWR	University Writing Requirement	<u>0</u>
		15

Third Year/Spring Semester

EET 452	Electrical Power & Drives or	
	EET 403 Adv. LANs & PC Communications	3
INT 308	Methods Efficiency Measurement	3
PHY 132	College Physics II	5
Free Elective		3
Upper Division Elective		<u>1</u>
		15

Fourth Year/Fall Semester

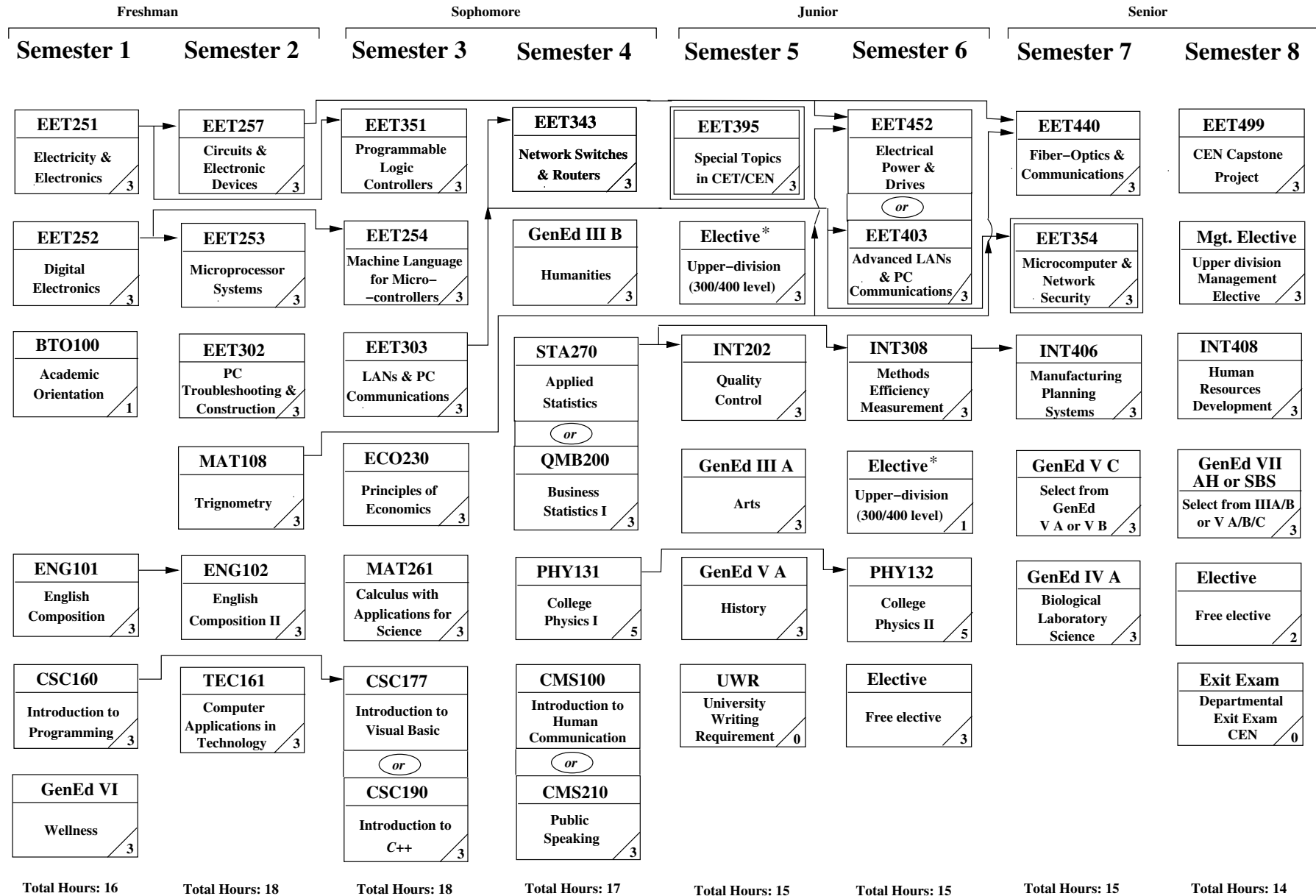
EET 354	Microcomputer & Network Security	3
EET 440	Fiber-Optics & Communications	3
INT 406	Manufacturing Planning Systems	3
Gen Ed	Block IV A (Biological Lab. Science)	3
Gen Ed	Block V C (Select from V A or V B)	<u>3</u>
		15

Fourth Year/Spring Semester

EET 499	CEN Capstone Project	3
INT 408	Human Resources Development	3
Gen Ed	Block VII (AH or SBS)	3
Free Elective		2
Upper Division Mgt. Elective		3
Exit Exam (Departmental)		<u>0</u>
		14

Total Hours=128

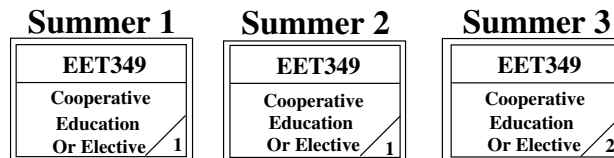
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6 Additional hours from either of these CEN courses:

- EET 349 – Cooperative education
- EET 354 – Microcomputer & Network Security
- EET 395 – Special Topics in CET/CEN

*** 4 Hours of Upper-division electives – Recommend use as Cooperative Education with Business/Industry**



Pre-requisite for:

- EET251 / EET252 / EET303 – MAT095 (Dev. math)
- CSC160 – All math developmental requirements
- MAT108 – Minimum score of 22 on math portion of the ACT or MAT098 with minimum grade 'C' or passing MAT107 prerequisite skills test
- ECO 230 – MAT095 or ACT math of 18 and higher

Cumulative Credit Hours:
128

Fall 2006