

ELECTRONICS ENGINEERING TECHNOLOGY

2007-2008 Alternate Sequence

Freshman Year

Fall			
___	MATH 124	Calculus & Analytic Geometry	(5)
___	ENG 101	Writing & Critical Analysis	(4)
___	PHYS 121 ³	Physics w/ Calculus I	(4)
___	PHYS 131 ³	Physics w/ Calculus I Lab	(1)

Winter			
___	MATH 125	Calculus & Analytic Geometry	(5)
___	PHYS 122 ³	Physics w/ Calculus II	(4)
___	PHYS 132 ³	Physics w/ Calculus II Lab	(1)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Spring			
___	PHYS 123 ³	Electricity and Magnetism	(4)
___	PHYS 133 ³	E and M Lab	(1)
___	CHEM 121	General Chemistry I	(5)
___	COMM 101	Fundamentals of Speech	(4)
___		_____	()

Sophomore Year

Fall			
___	ETEC 271	Circuit Analysis I	(4)
___	CSCI 140 ²	Programming Fundamentals	(4)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Winter			
___	ETEC 270	Electronics Seminar	(1)
___	ETEC 272	Electronic Devices & Circuits	(4)
___	ETEC 273	Digital Electronics	(4)
___	ETEC 371	Circuit Analysis II	(5)

Spring			
___	ETEC 274	Fund. of Microprocessors	(5)
___	ETEC 372	Electronic Analysis & Design	(5)
___	ETEC 375	Electronic Systems	(5)

Junior Year

Fall			
___	ETEC 373	Digital Systems	(5)
___	ETEC 376	Electrical Power	(5)
___	MATH 321	Mathematics for Technology	(4)
___		_____	()

Winter			
___	ETEC 374	Microprocessor Applications	(5)
___	ETEC 378	Network Analysis	(4)
___	ENG 302 ⁴	Technical Writing	(5)
___	GUR/TE ¹	_____	()

Spring			
___	ETEC 379	Active Linear & Non-Linear Circuits	(5)
___	ETEC 457	Automatic Control Systems	(4)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Senior Year

Fall			
___	ETEC 405	Communications Circuits	(4)
___	ETEC 471	Project Definition	(2)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Winter			
___	ETEC 455	Communication Systems	(4)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Spring			
___	ETEC 474	Microcomputer-Based Design	(4)
___	ETEC 475	Digital Communications	(4)
___	GUR/TE ¹	_____	()
___	GUR/TE ¹	_____	()

Notes:

1. GUR/TE (GUR or Technical elective course) – Check the Degree Planning Guide for GUR requirements. Students must take 25cr of Technical Electives, of which, 8crs must be upper division. See elective list on back.
2. Students should take the C++ section of CSCI 140. Contact CS department to find the correct section(s). CS141 also meets program requirements but is no longer recommended.
3. PHYS 114, 115, 116 may satisfy Physics requirement with approval by program advisor.
4. ETEC 341, Engineering and Society, can be substituted for ENG 302 and fulfills the WWU writing proficiency course requirement.

ELECTRONICS ENGINEERING TECHNOLOGY

Technical Electives (Lower Division):

BIOL 101 INTRODUCTION TO BIOLOGY (4)
CHEM 122, 123 GENERAL CHEMISTRY II, III (5,4)
CSCI112 WEB RESOURCE CREATION (4)
CSCI 142 ADA FOR C++ AND JAVA PROGRAMMERS (1)
CSCI 145 COMPUTER PROGRAMMING AND LINEAR DATA STRUCTURES (4)
CSCI 146 COMPUTER PROGRAMMING AND LINEAR DATA STRUCTURES FOR C++ (4)
CSCI 202 BASIC INTERNET RESOURCES (4)
CSCI 211 DISCRETE STRUCTURES AND FUNCTIONAL PROGRAMMING I (4)
CSCI 227 COMPUTER ORGANIZATION I (4)
CSCI 241 DATA STRUCTURES (4)
ETEC 110 ENGINEERING DESIGN GRAPHICS I (3)
ETEC 111 ENGINEERING DESIGN GRAPHICS II (3)
ETEC 220 INTRODUCTION TO ENGINEERING MATERIALS (4)
ETEC 224 APPLIED ENGINEERING STATICS (3)
ETEC 225 STRENGTH OF MATERIALS (5)
ETEC 226 ENGINEERING DYNAMICS (4)
FAIR 275H AUDIO RECORDING 1 (4)
MATH 204 ELEMENTARY LINEAR ALGEBRA (4)
MATH 207 MATHEMATICAL COMPUTING (3)
MATH 224 MULTIVARIABLE CALCULUS AND GEOMETRY (5)
MATH 225 MULTIVARIABLE CALCULUS AND GEOMETRY (4)
MATH 226 LIMITS AND INFINITE SERIES (4)
MATH 240 INTRODUCTION TO STATISTICS (4)
MATH 245 STATISTICS FOR ENGINEERING TECHNOLOGY (3)
PHYS 223 WAVES AND OPTICS (3)
PHYS 224 MODERN PHYSICS I (4)
PHYS 225 MODERN PHYSICS II (3)
PHYS 233 WAVES AND OPTICS LABORATORY (1)

Technical Electives (Upper Division):

ASTR316 STARS AND GALAXIES (4)
ESTU 415 PLANNING FOR SUSTAINABLE COMMUNITIES (4)
BIOL 348 HUMAN ANATOMY AND PHYSIOLOGY (5)
CSCI 311 DISCRETE STRUCTURES AND FUNCTIONAL PROGRAMMING II (4)
CSCI 341 OBJECT-ORIENTED PROGRAMMING IN C++ (4)
CSCI 344 SOFTWARE ENGINEERING (3)
CSCI 347 COMPUTER ORGANIZATION II (3)
CSCI 351 WINDOWS SOFTWARE DEVELOPMENT (3)
CSCI 352 UNIX SOFTWARE DEVELOPMENT (3)
CSCI 367 COMPUTER NETWORKS I (3)
CSCI 402 ARTIFICIAL INTELLIGENCE (3)
CSCI 420 COMPUTER ARCHITECTURE III (3)
CSCI 442 ADVANCED WEB PROGRAMMING IN JAVA (3)
CSCI 460 OPERATING SYSTEMS (3)
CSCI 467 COMPUTER NETWORKS II (3)
ETEC 326 FLUID POWER (4)
ETEC 333 POLYMER TECHNOLOGY (5)
ETEC 344 INDUSTRIAL QUALITY ASSURANCE (4)
ETEC 377 INSTRUMENTATION (4)
ETEC 420 MANUFACTURING AUTOMATION AND ROBOTICS (4)
ETEC 444 DATA ANALYSIS AND DESIGN OF EXPERIMENTS (4)
ETEC 454 EMBEDDED SYSTEMS (4)
FAIR 375H AUDIO RECORDING 2 (4)
MATH 341 PROBABILITY AND STATISTICAL INFERENCE (4)
MATH 342 STATISTICAL METHODS (4)
OPS 360 OPERATIONS MANAGEMENT (4)
OPS 460 DESIGNING AND IMPROVING OPERATIONS (4)
OPS 461 PROJECT MANAGEMENT (4)
OPS 463 ENTERPRISE RESOURCE PLANNING SYSTEMS (4)
PHYS 339 OPTICS (3)
PHYS 349 OPTICS LABORATORY (1)
PHYS 368 ELECTROMAGNETISM I (3)
PHYS 369 ELECTROMAGNETISM II (3)
PHYS 431 LASERS AND OPTOELECTRONICS (3)

Other courses may be accepted as technical electives. See program advisor.