

ELECTRONICS ENGINEERING TECHNOLOGY

2009-2010 Alternate Sequence

Freshman Year

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

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

Spring			
___	PHYS 123	Electricity and Magnetism	(5)
___	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 ³	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)
___	ETEC 454	Embedded Systems	(4)
___	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 21cr of Technical Electives, of which, 4crs must be upper division. See elective list on back.
2. Students should take CSCI 140. CS141 also meets program requirements but is no longer recommended.
3. ETEC 341, Engineering and Society, can be substituted for ENG 302 and fulfills the WWU writing proficiency course requirement.
4. PHY223/233 can be substituted for PHY122 for a sequence of PHY121, PHY123, PHY223/233

ELECTRONICS ENGINEERING TECHNOLOGY

Technical Electives (Lower Division):

BIOL 101 INTRODUCTION TO BIOLOGY (4)
BIOL 204 INTRODUCTION TO EVOLUTION, ECOLOGY, AND BIODIVERSITY(4)
CHEM 122, 123 GENERAL CHEMISTRY II, III (5,4)
CSCI 102 COMPUTER-MEDIATED COMMUNICATIONS (3)
CSCI 139 PROGRAMMING FUNDAMENTALS IN PYTHON (4)
CSCI 145 COMPUTER PROGRAMMING AND LINEAR DATA STRUCTURES (4)
CSCI 146 COMPUTER PROGRAMMING AND LINEAR DATA STRUCTURES FOR C++ (4)
CSCI 202 DYNAMIC WEB PAGES (4)
CSCI 211 DISCRETE STRUCTURES AND FUNCTIONAL PROGRAMMING I (4)
CSCI 227 COMPUTER ORGANIZATION I (4)
CSCI 241 DATA STRUCTURES (4)
CSCI 245 OBJECT-ORIENTED PROGRAMMING IN C++ (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):

ESTU 415 PLANNING FOR SUSTAINABLE COMMUNITIES (4)
BIOL 348 HUMAN ANATOMY AND PHYSIOLOGY (5)
CSCI 305 ANALYSIS OF ALGORITHMS AND DATA STRUCTURES I (3)
CSCI 311 DISCRETE STRUCTURES AND FUNCTIONAL PROGRAMMING II (4)
CSCI 322 PRINCIPLES OF CONCURRENT PROGRAMMING (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 405 DESIGN AND ANALYSIS OF ADVANCED ALGORITHMS AND DATA STRUCTURES (3)
CSCI 420 COMPUTER ARCHITECTURE III (3)
CSCI 442 ADVANCED WEB PROGRAMMING IN JAVA (3)
CSCI 460 OPERATING SYSTEMS (3)
CSCI 462 OS DEVICE DRIVERS (4)
CSCI 467 COMPUTER NETWORKS II (3)
ETEC 326 FLUID POWER (4)
ETEC 344 INDUSTRIAL QUALITY ASSURANCE (4)
ETEC 361 ADVANCED CAD: ASSEMBLY DESIGN AND MECHANISMS (4)
ETEC 362 ADVANCED CAD: SURFACE MODELING (4)
ETEC 377 INSTRUMENTATION (4)
ETEC 420 MANUFACTURING AUTOMATION AND ROBOTICS (4)
ETEC 444 DATA ANALYSIS AND DESIGN OF EXPERIMENTS (4)
FAIR 375H AUDIO RECORDING 2 (4)
MSCI 320 INTRODUCTION TO MATERIALS SCIENCE I (4)
MSCI 330 INTRODUCTION TO MATERIALS SCIENCE II (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)

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