

CIVIL ENGINEERING

UPPER DIVISION ENGINEERING AND SCIENCE COURSES (nine credits total)

June 29, 2005

COURSE	TITLE	CREDITS
	All 300- and 400-level engineering courses from ME, CHEM E, A A, E E, CSE, IND E, and MSE.	
	All CEE 400-level courses, except CEE 423 (I & S)	
	EXCEPTIONS--THESE WILL NOT COUNT: CHEM E 309 (VLPA), T C 231, 333 (Written & Oral Communication), ENGR 301, 310 321, 322, 468, IND E 315, any math or statistics courses.	
ARCH 310	ARCHITECTURAL DESIGN DRAWING I	3
ARCH 331	ENVIRONMENTAL CONTROL SYSTEMS	3
ARCH 431	ENVIRONMENTAL CONTROL PRINCIPLES	3
ARCH 433	ACTIVE CONTROL SYSTEMS FOR BLDG OPERATION	3
ARCH 436	BUILDING ACOUSTICS	3
ARCH 437	PASSIVE THERMAL CONTROLS	3
ARCH 574	DESIGN AND CONST LAW	3
ASTR 301	ASTR FOR SCIENTISTS & ENGR	3
ASTR 322	CONTESTS OF OUR GALAXY	3
ATM S 301	INTRO ATMOSPHERIC SCIENCES	5
ATM S 321	PHYSICAL CLIMATOLOGY	3
ATM S 340	INTRO THERMODYNAMICS & CLOUD PROCESSES	5
ATM S 358	FUND ATMOS CHEMISTRY	3
ATM S 370	ATMOSPHERIC STRUCTURE & ANALYSIS	5
BIOL 180	INTRO BIOLOGY	5
BIOL 200	INTRO BIOLOGY	5
BIOL 220	INTRO BIOLOGY	5
BIOL 340	GENETICS & MOLECULAR ECOLOGY	5
BIOL 438	BIOLOGICAL MONITOR & ASSESSMENT	5
BIOL 472	PRINCIPLES OF ECOLOGY	5
BIOL 473	LIMNOLOGY	3
BIOL 475	LIMNOLOGY LAB	2
BIOL 476	CONSERVATION BIOLOGY	5
BOTANY 354	INTRO TO PLANT ECOLOGY	5
BOTONY 428	MOLECULAR & CELLULAR BIOL OF PLANTS	3
CHEM 162	GENERAL CHEMISTRY	6
CHEM 223	ORGANIC CHEM, SHORT PROGRAM	4
CHEM 224	ORGANIC CHEM, SHORT PROGRAM	4
CHEM 237	ORGANIC CHEMISTRY	4
CHEM 238	ORGANIC CHEMISTRY	4
CHEM 239	ORGANIC CHEMISTRY	3
CHEM E 260	THERMODYNAMICS	4
CM 310	INTRO TO CONSTRUCTION INDUSTRY	3
CM 312	CONSTRUCTION ACCOUNTING	3
CM 320	CONSTRUCTION CONTRACT DOCUMENTS	3
CM 331	CONSTRUCTION ESTIMATING I	4
CM 332	CONSTRUCTION EQUIP MANAGEMENT	3
CM 410	CONSTRUCTION ESTIMATING II	4
CM 411	PROJECT PLANNING & CONTROL	3
CM 420	TEMPORARY STRUCTURES	3
CM 421	PROJECT MANAGEMENT I	3
CM 422	COMPUTER APPLICATIONS IN CONSTRUCTION	3
CM 454	INTRO TO REAL ESTATE FINANCE	4

CSE 143	COMPUTER PROGRAMMING II	5
EHUF 477	WETLAND RESTORATION	5
ENV H 405	TOXIC CHEM AND HUMAN HLTH	3
ENV H 445	SOLID WASTE MGMT	3
ENV H 446	HAZARDOUS WASTE MGMT	3
ENV H 490	COMMUNITY AIR POLLUTION	3
ESC 210	INTRODUCTORY SOILS	4
ESC 311	SOILS AND LAND USE	3
ESC 320	OLD GROWTH & FOREST MGMT	5
ESC 322	FOREST ECOSYSTEMS	3
ESC 401	SPRING COMES TO THE CASCADES	3
ESC 418	COMPOST & ORGANIC SOIL AMENDMENTS	5
ESC 441	LANDSCAPE ECOLOGY	5
ESS 210	PHYSICAL GEOLOGY	5
ESS 211	PHYSICAL PROCESSES OF THE EARTH	5
ESS 212	EARTH MATERIALS & PROCESSES	5
ESS 213	EVOLUTION OF THE EARTH	5
ESS 301	GEOLOGY OF THE NW	5
ESS 302	GREAT ICE AGE	5
ESS 303	GEOLOGIC HAZARDS	5
ESS 304	VOLCANOES & CLACIERS OF THE PACIFIC NW	5
ESS 305	EARTHSCAPES	5
ESS 306	PLANETARY GEOLOGY	5
ESS 311	GEOMECHANICS	5
ESS 312	GEOCHEMISTRY	5
ESS 313	GEOBIOLOGY	5
ESS 315	ENVIR EARTH SCIENCE	5
ESS 326	GEOMORPHOLOGY	5
ESS 345	THE ENVIR OF FUEL & MINERAL DEPOSITS	3
ESS 401	REGIONAL GEOLOGY OF THE PACIFIC NW	5
ESS 403	GLOBAL GEOPHYSICS AND PLATE TECTONICS	5
ESS 411	GEOPHYS CONTINUUM MECHANICS	3
ESS 412	SEISMOLOGY	3
ESS 413	GEOPHYSICS: THE EARTH	3
ESS 414	GEOPHYSICS: FLUIDS	3
ESS 415	SPACE AND PLASMAS	3
ESS 416	GEOPHYSICS: THE ATMOSPHERE	3
ESS 421	INTRO TO GEOLOGICAL REMOTE SENSING	4
ESS 422	INTERMEDIATE SPECTRAL REMOTE SENSING	4
ESS 424	WATER IN THE ENVIR	3
ESS 426	FLUVIAL GEOMORPHOLOGY	5
ESS 427	HILLSLOPE GEOMORPHOLOGY	5
ESS 428	LANDSCAPE EVOLUTION	5
ESS 431	PRINCIPLES OF GLACIOLOGY	3
ESS 432	GLACIAL GEOLOGY	3
ESS 433	ENVIR CHANGE IN THE GLACIAL AGES	3
ESS 439	PETROLOGY OF IGNEOUS ROCKS	5
ESS 440	PETROGRAPHY & PETROLOGY OF METAMORPHIC ROCKS	5
ESS 441	PETROLOGY & PETROGRAPHY OF SEDIMENTARY ROCKS	5
ESS 445	GEOLOGY OF ORE DEPOSITS	5
ESS 452	FOSSIL VERTEBRATES	5
ESS 455	STRATIGRAPHY	4
ESS 456	DEPOSITIONAL ENVIRONMENTS	4
ESS 458	ISOTOPE AND TRACE ELEMENT IN GEOL: LITHOSPHERE	3
ESS 462	VOLCANIC PROCESSES	3
ESS 463	STRUCTURE & TECTONICS	5

ESS 464	GEODYNAMICS	4
ESS 466	APPLIED SEISMOLOGY	2
ESS 467	SEISMIC EXPLORATION	5
ESS 471	INTRO TO SPACE PHYSICS	3
FE 423	WATERSHED ANALYSIS	4
FE 425	WILDLAND HYDROLOGY	4
FE 430	AERIAL PHOTOS/REMOTE SENSING	3
FE 445	MGMT SCIENCE IN FOREST ENGINEERING	5
FE 451	GIS-BASED LANDSCAPE MODELING	5
FE 452	STREAM-ROAD SYSTEM INTERACTIONS	5
FE 465	INTRO TO PHOTOGRAMMETRY	2
FE 470	WOOD SCIENCE & FOREST PRODUCTS MFG	3
FE 480	SILVICULTURAL ENG SYSTEMS	3
FISH 312	FISHERIES ECOLOGY	3/5
FISH 323	CONSERVATION & MGMT OF AQUATIC RESOURCES	5
FISH 324	BIOL & CULTURE OF AQUATIC ORGMS	5
FISH 428	RESTORATION OF FISH COMM & HABITAT IN RIVER ECOSYS	5
FISH 430	BIOL PROLBEMS IN WATER POL	3/5
FISH 447	WATERSHED ECOL & MANAGEMENT	3
FM 328	FORESTRY-FISHERIES INT' ACTIONS	4
GEOG 230	URBANIZATION & DEVELOP: GEOG OF GLOBAL INEQUALITY	5
GEOG 277	GEOGRAPHY OF CITIES	5
GEOG 360	PRINCIPLES OF CARTOGRAPHY	5
GEOG 370	PROB RESOURCE MGMT	5
GEOG 435	INDUSTRIALIZATION & URBANIZATION IN CHINA	5
GEOG 460	GEOGRAPHIC INFO SYSTEMS	5
GEOG 461	URBAN GEOGRAPHIC INFO SYS	5
GEOG 471	METHODS OF RESOURCE ANALYSIS	5
L ARCH 331	LANDSCAPE CONSTRUCTION	4
L ARCH 341	SITE PLANNING	3
L ARCH 433	LARGE-SCALE SITE CONSTRUCTION	4
ME 295	PRODUCT DISSECTION	3
MICROM 301	GEN MICROBIOLOGY	3
MICROM 302	GEN MICROBIOLOGY, LAB	2
OCEAN 400	CHEMICAL OCEANOGRAPHY	4
OCEAN 410	MARINE GEOLOGY & GEOPHYSICS	4
OCEAN 420	PHYSICAL PROCESSES IN THE OCEAN	3
OCEAN 421	CHEMICAL OCEANOGRAPHY	4
OCEAN 450	CLIMATIC EXT	4
PHYS 224	THERMAL PHYSICS	3
PHYS 225	MODERN PHYSICS	3
PHYS 227	ELEMENTARY MATHEMATICAL PHYSICS	3
PHYS 228	ELEMENTARY MATHEMATICAL PHYSICS	3
PSE 476	PULPING & BLEACHING PROCESSES	3
URBDP 429	COMPUTER-AIDED PLANNING OF URBAN SYSTEMS	3
URBDP 457	HOUSE DEV COUNTRIES	3
URBDP 465	LAND USE	3
URBDP 466	INFRASTRUC & COMM FACILITIES	4
URBDP 479	THE URBAN FORM	3