Technical Electives

Civil Engineering Department
California State University, Chico
August 26, 2011

List of approved courses that may be used to satisfy the Technical Elective in the Civil Engineering degree. Other courses may be substituted only upon the approval of a formal petition to the department (see your academic advisor for more information).

Course	Units	Title
AGET 340	3	GPS & GIS in Agriculture and Natural Resource Management
AGET 360	3	Irrigation
BIOL 211	4	Allied Health Microbiology (not if used for Restricted Science Elective)
BIOL 350	3	Fundamentals of Ecology
BIOL 371	4	Microbiology
BIOL 402	4	Microbial Ecology
BIOL 404	4	Aquatic Ecology
CHEM 270	4	Organic Chemistry
CHEM 320	4	Quantitative Analysis
CHEM 331	3	Physical Chemistry
CHEM 370	4	Organic Chemistry
CIMT 348	3	Concrete Repair and Restoration
CIMT 363	4	Sustainability and the Built Environment: The Role of Concrete
CIMT 366	3	Seismic Considerations in Concrete
CMGT 380	3	Green Building Practices and LEED Certification
CMGT 440	3	Temporary Structures
CMGT 450	3	Construction Estimating
ECON 335	3	Tax Theory and Policy
ECON 375	3	The Developing Countries
ECON 355	3	The Economics of Government Regulations
ECON 360	3	Urban Problems
ECON 435	3	Public Finance: Theory and Policy
CIVL 389	3	Internship in Civil Engineering
CIVL -	3	Any 500-level CIVL course not used for Engineering Elective
EECE -	3	Any ≥300 EECE course not used for Engr. Elective, except EECE 398/399/498/499
MECH -	3	Any ≥300 MECH course not used for Engr. Elective, except MECH 320/332/398/399/498/499.

GEOG 318	3	Remote Sensing and the Environment
GEOG 319	3	Introduction to Geographical Information Systems
GEOG 425	3	Planning for Sustainable Communities and Regions
GEOG 426	3	Water Resource Policy and Planning
GEOG 427	3	Environmental Impact Analysis
GEOG 428	3	Site Planning
GEOG 436	3	Transportation Planning
GEOG 460	3	Natural Hazards
GEOS 315	3	Pollution Chemistry
GEOS 380	3	Hydrology
GEOS 400	3	Physical Meteorology
GEOS 408	3	Structural Geology
GEOS 410	3	Introduction to Watershed Hydrology
GEOS 415	3	Hydrogeology
GEOS 460	3	Water Resource Management
GEOS 501	3	Dynamic Meteorology and Analysis
GEOS 502	3	Air Pollution Meteorology
GEOS 516	3	Natural Water Systems
GEOS 530	3	Environmental Systems Modeling I
GEOS 537	3	Ecohydrology
GEOS 570	3	Environmental and Engineering Geology
MATH 220	4	Analytic Geometry and Calculus (III) (not if used for MATH elective)
MATH 235	3	Elementary Linear Algebra (not if used for MATH Elective)
MATH 350	3	Introduction to Probability and Statistics (not if used for MATH Elective)
MATH 351	3	Introduction to Probability and Statistics
MATH 360	3	Ordinary Differential Equations
MATH 361	3	Boundary Value Problems and Partial Differential Equations
MATH 435	3	Linear Algebra

MATH 460	3	Numerical Analysis
MATH 461	3	Numerical Analysis
MATH 465	3	Introduction to Complex Variables
MGMT 444	3	Managing Project Teams
PHYS 300A	3	Modern Physics I
PHYS 300B	3	Modern Physics II
PHYS 425	3	Solid State Physics
PHYS 450	3	Optics
PHYS 451	3	Lasers and Their Applications