

Technical Electives

April 10, 2009

Department of Civil Engineering
California State University, Chico

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 No.	Units	Course Title
AGET 340	3	GPS & GIS in Agriculture and Natural Resource Management
<i>AGET 360</i>	3	Irrigation
BIOL 211	4	General Microbiology (<i>not if used for Restricted Science Elective</i>)
<i>BIOL 404</i>	3	Aquatic Ecology
CHEM 270	4	Organic Chemistry
CHEM 320	4	Quantitative Analysis
<i>CHEM 331</i>	3	Physical Chemistry (I)
<i>CHEM 370</i>	4	Organic Chemistry
CIMT 363	4	Sustainability and the Built Environment: The Role of Concrete
ECON 335	3	Tax Theory and Policy
ECON 355	3	The Economics of Government Regulations
ECON 360	3	Urban Problems
<i>ECON 435</i>	3	Public Finance: Theory and Policy
CIVL 342	3	Planning of Public Works Projects
CIVL 389	3	Internship in Civil Engineering
CIVL 489	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 Engineering Elective, except EECE 398 and EECE 498
MECH -	3	Any ≥ 300 MECH course not used for Engineering Elective, except MECH 320, MECH 332, MECH 398, and MECH 498
GEOG 425	3	Community and Regional Development
GEOG 426	3	Water Resource Policy and Planning
<i>GEOG 427</i>	3	Environmental Impact Analysis
<i>GEOG 428</i>	3	Site Planning
<i>GEOG 436</i>	3	Transportation Planning
<i>GEOG 460</i>	3	Natural Hazards
GEOS 309	3	Introductory Seismology
GEOS 343	3	Oceanography
GEOS 400	3	Physical Meteorology
<i>GEOS 408</i>	3	Structural Geology
<i>GEOS 410</i>	3	Introduction to Watershed Hydrology
<i>GEOS 415</i>	3	Hydrogeology
<i>GEOS 460</i>	3	Water Resource Management
GEOS 530	3	Environmental Systems Modeling I
<i>GEOS 570</i>	3	Environmental and Engineering Geology
MATH 220	4	Analytic Geometry and Calculus (III) (<i>not if used for MATH elective</i>)
MATH 235	3	Elementary Linear Algebra (<i>not if used for MATH Elective</i>)
MATH 350	3	Introduction to Probability and Statistics (I) (<i>not if used for MATH Elective</i>)
MATH 351	3	Introduction to Probability and Statistics (II)
<i>MATH 355</i>	3	Applied Probability
MATH 360	3	Ordinary Differential Equations
MATH 361	3	Boundary Value Problems and Partial Differential Equations
<i>MATH 435</i>	3	Linear Algebra
<i>MATH 460</i>	3	Numerical Analysis
MATH 461	3	Numerical Analysis
MATH 465	3	Introduction to Complex Variables
PHYS 300A	3	Relativity and Quantum Theory (Modern Physics I)
<i>PHYS 300B</i>	3	Atomic and Nuclear Physics (Modern Physics II)
PHYS 425	3	Solid State Physics
PHYS 450	3	Optics
PHYS 451	3	Lasers and Their Applications

^ Courses listed in *italics* may have prerequisites not provided by the CE program - contact the host department.