

Courses offerings subject to change. Check the OSU Online Schedule of Classes each term when registering.							
Courses with all grey boxes may not be offered that year. Check the OSU Catalog. http://catalog.oregonstate.edu/Default.aspx							
Questions about whether a specific class meets the requirements for a Technical Elective? Please email cee.advising@oregonstate.edu							
Courses offered through OSU Ecampus do not meet the requirements for Technical Electives in the CE major.							
Students using Federal Financial Aid will receive an email from Financial Aid about any graduate courses they register for. Forward to cee.advising@oregonstate.edu							
Note: Undergraduate students taking graduate courses (500-level) are charged graduate tuition for that course/those courses.							
Courses in land surveying and mapping - minimum 16 credits of PLS classes to sit for initial Land Surveying licensing exam, inc a course in survey law.							
Civil Engineering 2018 - 2019 Technical Elective Class List							
Course	Title	Pre-requisite or *Co-requisite Class(es)	Credits	Su2018	F2018	W2019	S2019
CCE 422/522	Green Building Materials	CCE 321, ECON 201 & ST 314	3		Ideker (e-campus)	Ideker	
CCE 520 (Corrosion)	Selected Topics: Corrosion	Graduate Standing or Instructor Consent	4			Isgor	
CCE 520 (Adv. Concrete Construction)	Special Topics: Advanced Concrete Construction	Graduate Standing or Instructor Consent	3			Trejo	
CCE 523	Concrete Durability	CCE 321 or CCE 421	4				Ideker
CCE 524	Asphalt Fundamentals		4				Ideker
CCE 525	Construction Site Systems Engineering	Graduate Standing or Instructor Consent	3				Gambatese
CCE 526	Design for Safety	Graduate Standing or Instructor Consent	3		Gambatese		
CE 424/524	Contracts and Specifications	Phase II of Registration with Instructor Consent	4				Pestana
CE 427/527	Temporary Construction Structures	CE 383, CE 372, & CCE 321, in Phase II of Registration with Instructor Consent	4			Gambatese	
CEM 341	Construction Estimating I	CE 102 & CCE 201, in Phase II of Registration with Instructor Consent	4				Fradella
CEM 441	Heavy Civil Construction Management	FE 315 or CE 372, in Phase II of Registration with Instructor Consent	4			Louis	Pestana
CEM 442	Building Construction Management	Phase II of Registration with Instructor Consent	4		TBD		
CEM 471	Electrical Facilities	Phase II of Registration with Instructor Consent	4		Fradella		
CEM 472	Mechanical Facilities	Phase II of Registration with Instructor Consent	3			Fradella	
CE 365	Highway Location & Design	CE 361	3			Schultz	
CE 461/561	Photogrammetry	CE 361 or CEM 263 or FE 308 (PLS class)	3		Schultz		
CE 463/563	Control Surveying	CE 361 or CEM 263 or FE 308 (PLS class)	4				Schultz
CE 465/565	Oregon Land Survey Law	CE 361 or CEM 263 or FE 308 (PLS class)	3			Schultz	
CE 469/569	Property Surveys	CE 361 or CEM 263 or FE 308 (PLS class)	3				Schultz
CE 471	Foundations for Structures	CE 373 or FE 316	3			Khoubani/Ma	
CE 482/582	Masonry Design	CE 481 or equivalent	3			TBD	
CE 484/584	Wood Design	CE 383 or CE 481 & senior standing	4			TBD	
CE 486/586	Prestressed Concrete	CE 481	3			TBD	
CE 492/592	Pavement Structures	CE 392	3				Coleri
CE 413/513	GIS in Water Resources	Senior Standing & CE 202 or other GIS course	3	Arras			
CE 540 Stochastic Hydrology	Selected Topics: Stochastic Hydrology	Graduate Standing or Instructor Consent	4		Babbar-Sebens		
CE 540 (Storm Water Design & Management)	Selected Topics: Storm Water Design & Management	Graduate Standing or Instructor Consent	4			Babbar-Sebens	
CE 544 (Open Channel Flow)	Open Channel Flow	Graduate Standing or Instructor Consent	4			Hill	
CE 547	Water Resources Engineering I: Principles of Fluid Mechanics	Graduate Standing or Instructor Consent	4		Istok		
CE 560 (GNSS & Geodesy)	ST: GNSS & Geometric Geodesy	Graduate Standing or Instructor Consent	4			Park	
CE 560 (Adv. Virtual Design & Construction)	ST: Adv. Virtual Design & Construction	Graduate Standing or Instructor Consent	3				Turkan
CE 560 (Hydrographic Surveying)	Hydrographic Surveying	Graduate Standing or Instructor Consent	4				Parrish
CE 566 (3D Laser)	3D Laser Scanning & Imaging	Graduate Standing or Instructor Consent	4		Olsen		
CE 534	Structural Dynamics	CE 382 & Instructor Consent	4		Simpson		
CE 583	Bridge Design	CE 481	3				Higgins
CE 536	Matrix Structural Analysis	CE 382	4		Scott		
CE 589	Seismic Design	CE 383 or CE 481, and Instructor Consent	4			Miller	
CE 590 (Statistics in Transportation)	Statistics in Transportation	Graduate Standing or Instructor Consent	3		Hernandez		
CE 590 (Agent Based Modeling)	Agent Based Modeling	Graduate Standing or Instructor Consent	3			Wang	
CE 590 (Advanced Traffic Flow Theory)	Advanced Traffic Flow Theory	Graduate Standing or Instructor Consent	3			Wang	
CE 554	Driving Simulation	CE 595 recommended but not required	3			Hurwitz	
CE 591	Transportation System Analysis, Planning, & Policy	Graduate Standing or Instructor Consent	3				Hernandez
CE 594	Transportation Facility Design	CE 392	4			Hunter-Zaworski	
CE 597	Public Transportation	CE 392	4				Hunter-Zaworski
Courses offerings subject to change. Check the OSU Online Schedule of Classes each term when registering.							
Courses with all grey boxes may not be offered that year. Check the OSU Catalog. http://catalog.oregonstate.edu/Default.aspx							
Questions about whether a specific class meets the requirements for a Technical Elective? Please email cee.advising@oregonstate.edu .							
Courses offered through OSU Ecampus do not meet the requirements for Technical Electives in the CE major.							
Students using Federal Financial Aid will receive an email from Financial Aid about any graduate courses they register for. Forward to cee.advising@oregonstate.edu .							
Note: Undergraduate students taking graduate courses (500-level) are charged graduate tuition for that course/those courses.							
Courses in land surveying and mapping - minimum 16 credits of PLS classes to sit for initial Land Surveying licensing exam, inc a course in survey law.							