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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	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		Pestana		TBA
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
WSE 425	Timber Tectonics Digital Age	N/A - field trip included in course	4				Riggio

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