

5-Year Planning Document for CEE Course Offerings

Course	2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
CEE 001 Cooperative Education Program	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault	Archambault
CEE 251 Engineering Spatial Measurements											
CEE 290 Construction Systems	Hanna	Farhan	Hanna	Farhan	Hanna	Farhan	Hanna	Farhan	Hanna	Farhan	Farhan
CEE 291 Problem Solving Using Computer Tools		Hoopes	Wu, Fratta	Hoopes	Wu, Fratta	Hoopes	Wu, Fratta	Hoopes	Wu, Fratta	Hoopes	Hoopes
CEE 299 Independent Study	many	many	many	many	many	many	many	many	many	many	many
CEE 301 Introduction to Aerial Photographic Systems											
CEE 302 Introduction to Electro-optical & Microwave Remote Sensing Systems											
CEE 303 Introduction to Remote Sensing Image Processing											
CEE 304 Remote Sensing Visual Image Interpretation & GIS Integration											
CEE 307 Fundamental Computations for Land Information Systems											
CEE 308 Spatial Frameworks for Land Information Systems											
CEE 309 Introduction to U.S. Public Land System											
CEE 310 Fluid Mechanics	Hoopes	Wu	Hoopes	Wu	Hoopes	Wu	Hoopes	Wu	Hoopes	Wu	Wu
CEE 311 Hydroscience	Loheide	Potter	Loheide	Potter	Loheide	Potter	Loheide	Potter	Loheide	Potter	Potter
CEE 315 Hydrology	Potter		Potter		Potter		Potter		Potter		Potter
CEE 316 Hydraulic Engineering											
CEE 320 Environmental Engineering	McMahon	McMahon	McMahon	Staff	McGinnis	Staff	Staff	Staff	Staff	Staff	Staff
CEE 321 Environmental Pollution Control for Non-Engineers											
CEE 322 Environmental Engineering Processes				Noguera							
CEE 325 Design of Water Distribution & Wastewater Collection Systems											
CEE 330 Soil Mechanics	Graettinger	Graettinger	Schneider	Fratta	Schneider	Fratta	Schneider	Fratta	Schneider	Fratta	Fratta
CEE 340 Structural Analysis I	Camacho	Camacho	Bank?	Staff	Bank	Staff	Bank	Staff	Bank	Staff	Staff

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CEE 357 An Introduction to Geographic Information Systems	Zhu	Zhu	Zhu							
CEE 358 Hydrographic & Topographic Surveying										
CEE 359 Hydrographic & Topographic Mapping										
CEE 365 City Planning										
CEE 370 Transportation Engineering	Guo	Noyce	Noyce	Guo	Guo	Noyce	Guo	Noyce	Staff	Staff
CEE 372 On-Site Wastewater Treatment & Dispersal	Karthikeyan		Karthikeyan							
CEE 395 Materials for Constructed Facilities		Bahia		Bahia		Bahia		Bahia		Bahia
CEE 407 Adjustments for Land Information & Surveying										
CEE 408 Adjustments for Control Surveying Networks										
CEE 410 Hydraulic Engineering		Hoopes			Hoopes			Hoopes		
CEE 411 Open Channel Hydraulics			Hoopes			Hoopes			Hoopes	
CEE 412 Groundwater Hydraulics		Loheide				Loheide				Loheide
CEE 414 Hydrologic Design				Potter		Potter		Potter		Potter
CEE 415 Water Resources Engineering										
CEE 416 Optimization & Simulation of Water Resources Systems										
CEE 417 Hydrological Investigations										
CEE 422 Elements of Public Health Engineering			Harrington				Harrington			
CEE 423 Air Pollution Effects, Measurement, & Control		Schauer		Schauer		Schauer		Schauer		Schauer
CEE 424 Environmental Engineering Lab	Park		Park		Park		Park		Park	
CEE 426 Design of Wastewater Treatment Plants	Park		Park		Park		Park		Park	
CEE 427 Solid & Hazardous Wastes Engineering	Park		Park		Park		Park		Park	
CEE 428 Water Treatment Plant Design		Park		Park		Park		Park		Park

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CEE 429 Environmental Systems Optimization										
CEE 431 CEE Automated Laboratory & Field Measurement										
CEE 440 Structural Analysis II	Cramer									
CEE 442 Wood Structures I	Cramer		Cramer		Cramer		Cramer		Cramer	
CEE 444 Practical Applications of GPS Surveying		Feigl								
CEE 445 Steel Structures I			Pincheira		Pincheira		Pincheira		Pincheira	
CEE 447 Concrete Structures I	Pincheira	Pincheira		Pincheira		Pincheira		Pincheira		Pincheira
CEE 449 Structural Systems										
CEE 450 Short Course in Surveying										
CEE 452 Geopositioning: Satellite & Inertial Surveys										
CEE 453 Geodesy										
CEE 454 Cadastral Systems										
CEE 455 Legal Aspects of Land Surveying										
CEE 457 Route Location										
CEE 458 Geodetic Surveying										
CEE 459 Construction Layout										
CEE 489 Honors in Research	many	many	many	many	many	many	many	many	many	many
CEE 491 Legal Aspects of Engineering	Bradbury									
CEE 492 Integrated Project Estimating & Scheduling		Hanna		Hanna		Hanna		Hanna		Hanna
CEE 494 Civil & Environmental Engineering Decision Making		Adams				Adams		Adams		
CEE 495 Civil & Environmental Engineering Systems Modeling Techniques										

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CEE 496 Electrical Systems for Construction		Easton								
CEE 497 Mechanical Systems for Construction	Quinn									
CEE 498 Construction Project Management	Hanna Russell	Russell	Menassa Russell	Russell	Menassa Russell	Russell	Menassa Russell	Russell	Menassa Russell	Russell
CEE 500 Water Chemistry	Anderson		Anderson		Anderson		Anderson		Anderson	
CEE 501 Water Analysis - Intermediate	Sonzogni		Sonzogni		Sonzogni		Sonzogni		Sonzogni	
CEE 502 Environmental Organic Chemistry										
CEE 503 Water Analysis - Intermediate Lab	Sonzogni		Sonzogni		Sonzogni		Sonzogni		Sonzogni	
CEE 514 Coastal Engineering	Wu		Wu		Wu		Wu		Wu	
CEE 521 Industrial Pollution Control										
CEE 522 Hazardous Waste Management		Park		Park		Park		Park		Park
CEE 530 Seepage & Slopes			Edil			Edil			Edil	
CEE 531 Retaining Structures		Horsfall			Staff			Staff		
CEE 532 Foundations	Schneider			Schneider			Schneider			Schneider
CEE 534 Field Methods in Geological Engineering		Fratta, Schneider								
CEE 543 Precast Concrete	Oliva				Oliva				Oliva	
CEE 545 Steel Structures II		Pincheira		Pincheira		Pincheira		Pincheira		Pincheira
CEE 547 Concrete Structures II				Oliva				Oliva		
CEE 551 Advanced Photogrammetry										
CEE 556 Remote Sensing Digital Image Processing	Ozdogan									
CEE 557 Engineering Soils Mapping & Evaluation										
CEE 570 Environmental Impact of Transportation Systems										
CEE 571 Urban Transportation Planning	Ran		Ran		Ran		Ran			

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CEE 572 Airports										
CEE 573 Geometric Design of Transportation Facilities		Noyce		Rylander		Rylander		Rylander		
CEE 574 Traffic Control	Noyce		Noyce		Noyce		Noyce			
CEE 575 Advanced Highway Materials & Construction			Bahia							
CEE 576 Advanced Pavement Design	Bahia									
CEE 577 Transportation Administration										
CEE 578 Senior Capstone Design	Russell	Harrington	Russell	Harrington	Russell	Harrington	Russell	Harrington	Russell	Harrington
CEE 579 Seminar: Transportation Engineering	Ran	Ran	Ran	Ran	Ran	Ran	Ran	Ran		
CEE 592 Construction Labor Productivity Management					Hanna				Hanna	
CEE 595 Planning/Design/Construction Integration										
CEE 596 Constructability Analysis	Russell	Russell								
CEE 609 Special Topics: Chemistry of Air Pollution	Schauer				Schauer				Schauer	
CEE 609 Special Topics: Water Chemistry: Chemical Modeling										
CEE 609 Special Topics: Sol-Gel Chemistry		Anderson				Anderson				Anderson
CEE 618 Special Topics: Measurements in Environmental Fluid Mechanics		Wu			Wu			Wu		
CEE 618 Special Topics: Sediment Processes & Engineering in Channels	Hoopes			Hoopes			Hoopes			Hoopes
CEE 618 Special Topics: Environmental Fluid Mechanics		Hoopes								
CEE 619 Special Topics: Hydraulic Measurements										
CEE 619 Special Topics: Hydroecology				Loheide				Loheide		
CEE 625 Environmental Engineering Fieldtrips										
CEE 628 Environmental Engineering Design Project										
CEE 629 Special Topics: Aerosol & Air Pollution Lab			Schauer							

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CEE 629 Special Topics: Pathogen Detection			Long							
CEE 629 Special Topics: Environmental Microbial Biotechnology				McMahon						
CEE 631 Toxicants in the Environment: Sources, Distribution, Fate, & Effects		Pederson								
CEE 633 Waste Geotechnics		Lane			Staff			Staff		
CEE 635 Remediation Geotechnics				Tinjum?			Staff			Staff
CEE 637 Practicum in Geotechnical Engineering										
CEE 639 Special Topics: Analysis Methods in Geotechnical Engineering						Schneider				
CEE 641 Highway Bridges			Oliva				Oliva			
CEE 649 Special Topics: Fire										
CEE 649 Special Topics: Global				Bank		Bank?		Bank		
CEE 649 Special Topics: New FRP						Bank?				
CEE 649 Special Topics: Sustainable Energy Building Design	Oliva									
CEE 655 Computerized Land Information Systems										
CEE 656 Engineering Application of Land & GIS										
CEE 659 Special Topics in Geospatial Engineering										
CEE 670 Transit Systems Planning										
CEE 677 Practicum in Transportation										
CEE 679 Special Topics: Travel Behavior Analysis		Guo		Guo		Guo		Guo		
CEE 679 Special Topics: Advanced Transportation Demand & Supply Modeling		Ran				Ran				
CEE 679 Special Topics: Advanced Topics in Transportation Safety				Noyce			Noyce			
CEE 679 Special Topics: Site Planning and TIA			Hungness		Qin		Hungness			
CEE 679 Special Topics: Advanced Traffic Model & Simulation				Ran				Ran		

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CEE 679 Special Topics: Traffic Flow Theory		Noyce			Noyce					
CEE 679 Special Topics: Transportation Systems			Adams							
CEE 694 Management of Civil Infrastructure Systems	Adams				Adams					
CEE 695 Design & Construction of Bituminous Mixtures										
CEE 698 Special Topics: Construction Field Observation	Russell	Russell								
CEE 698 Special Topics: Research Methods in CEM	Hanna									
CEE 698 Special Topics: Leadership Development for Project Managers		Russell								
CEE 699 Independent Study	many	many	many	many	many	many	many	many	many	many
CEE 700 Chemistry of Natural Waters										
CEE 709 Analysis & Design of Spatial Measurement Systems										
CEE 712 Turbulent Flow		Hoopes				Hoopes				
CEE 714 Flow Through Porous Media										
CEE 716 Statistical Modeling of Hydrologic Systems		Potter								
CEE 718 Water Resources Management Planning Seminar		Potter								
CEE 719 Water Resources Management Practicum										
CEE 729 Special Topics in Sanitary Engineering										
CEE 730 Engineering Properties of Soils		Edil			Edil			Edil		
CEE 731 Properties of Geosynthetics	Edil			Edil			Edil			Edil
CEE 732 Unsaturated Soil Geoengineering			Staff			Staff			Staff	
CEE 733 Physiochemical Basis of Soil Behavior										
CEE 735 Soil Dynamics										

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CEE 739 Special Topics: Applications to Hydrology and Groundwater Engr	Fratta									
CEE 740 Advanced Methods of Structural Analysis										
CEE 744 Structural Dynamics & Earthquake Engineering		Oliva				Oliva				
CEE 749 Special Topics: Global AEC Project		Russell								
CEE 749 Special Topics: Need Title			Pincheira				Pincheira			
CEE 750 Analytical & Digital Photogrammetry										
CEE 757 Transportation Location Referencing Systems										
CEE 758 Image Processing Algorithms for Remote Sensing										
CEE 759 Special Topics in Geospatial Engineering										
CEE 772 Practicum in Transportation Management & Policy		Guo		Guo		Guo		Guo		
CEE 779 Special Topics in Transportation Engineering & City Planning										
CEE 790 Master's Research Thesis	many	many	many	many	many	many	many	many	many	many
CEE 795 Characterization of Asphalt Binders										
CEE 798 Special Topics in CEM										
CEE 810 Problems in Oceanography										
CEE 811 Theory of Waste Waters										
CEE 818 Special Topics in Hydraulics & Fluid Mechanics										
CEE 819 Special Topics in Hydrology										
CEE 821 Biological Treatment Processes			Noguera			Noguera			Noguera	
CEE 822 Physical/Chemical Treatment Processes	Harrington			Harrington			Harrington			Harrington
CEE 824 Water & Wastewater: Field Observations										

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CEE 839 Land Use & Communication Systems Planning										
CEE 890 Pre-Dissertator's Research	many	many	many	many	many	many	many	many	many	many
CEE 908 Seminar: Water Chemistry										
CEE 909 Seminar: Water Chemistry Research	Schauer	Schauer	Schauer	Schauer	Schauer	Schauer				
CEE 911 Limnology & Marine Science Seminar	Carpenter	Kitchell								
CEE 919 Seminar: Hydraulic Engineering & Fluid Mechanics	Potter	TBA								
CEE 929 Seminar: Environmental Engineering	Harrington	TBA	Harrington							
CEE 939 Geotechnical Engineering Seminar		Schneider Fratta		Schneider		Edil		Schneider		
CEE 949 Seminar: Structural Engineering										
CEE 950 Environmental Monitoring Seminar										
CEE 951 Seminar: Geospatial Information Engineering										
CEE 970 Colloquium in Transportation Management & Policy	Waidley	Waidley	Waidley	Waidley	Waidley	Waidley	Waidley	Waidley		
CEE 990 Thesis	many	many	many	many	many	many	many	many	many	many
CEE 999 Independent Study	many	many	many	many	many	many	many	many	many	many