



## A MEMORANDUM

DATE: January 19, 2017

TO: Academic Deans Council

FROM: Dr. Dana Pomykal Franz, Chair  
UCCC Chair

RE: Change Notice 5

Listed below are curriculum change proposals which have been recommended by the University Committee Courses and Curricula. Under current procedure, members of the Academic Deans Council may question the approval of these proposals at any time prior to 5:00 p.m. on February 1, 2017 by contacting Dr. Dana Pomykal Franz (5-7117) or the office of the Vice President for Academic Affairs (5-3742). If no questions have been raised, the proposals will be considered approved automatically.

1. Course Proposals

**BUSINESS**

Technical Change <u>FIN 4733</u>	<b>Approved</b>	<p><b>FROM: FIN 4733 Advanced Bank Management.</b> (3). (Prerequisites: ACC 3203, FIN 4423, and FIN 4723.) Three hours seminar. Applications of financial management techniques to bank management decisions through experiential learning opportunities. Computer-based analysis, simulations, and written and oral presentations.</p> <p><b>TO: FIN 4733 Advanced Bank Management.</b> (3). (Prerequisites: FIN 4723 or FIN 3123 and Instructor Consent.) Three hours seminar. Applications of financial management techniques to bank management decisions through experiential learning opportunities. Computer-based analysis, simulations, and written and oral presentations.</p> <p>Effective: Spring 2017</p>
Technical Change <u>MKT 3323</u>	<b>Approved</b>	<p><b>FROM: MKT 3323 International Logistics.</b> (3). Three hours lecture. Understanding and applying logistics concepts in a global context. Includes analysis of logistics tradeoffs and integration with other business functions.</p> <p><b>TO: MKT 3323 International Logistics.</b> (3). Three hours lecture. Understanding and applying logistics concepts in a global context. Includes analysis of logistics tradeoffs and integration with other business functions. Must be of junior standing or higher.</p> <p>Effective: Spring 2017</p>

**EDUCATION**

Addition <u>KI 8543</u>	<b>Passed Contingent</b>	<b>KI 8543 Postural and Locomotor Rehabilitation</b>
Addition <u>KI 8553</u>	<b>Passed Contingent</b>	<b>KI 8553 Exercise Management for Persons with Disabilities</b>
Addition <u>KI 8563</u>	<b>Passed Contingent</b>	<b>KI 8563 Motor Behavior in Special Populations</b>
Modification <u>KI 8603</u>	<b>Passed Contingent</b>	<p><b>FROM: EP 8603 Disability, Physical Activity and Health.</b></p> <p><b>TO: KI 8603 Disability, Physical Activity and Health</b></p>

**ENGINEERING**

<p>Technical Change <u>CE 2803</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 2803 Environmental Engineering Issues.</b> (3). (Prerequisite: Grade of C or better in CH 1223). Three hours lecture. An overview of the scientific, social and legal issues impacting environmental management and protection in the United States.  <b>TO: CE 2803 Environmental Engineering Issues.</b> (3). (Prerequisite: Grade of C or better in CH 1213 and CH 1223). Three hours lecture. An overview of the scientific, social and legal issues impacting environmental management and protection in the United States.            Effective Date: Spring 2017</p>
<p>Technical Change <u>CE 3801</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 3801 Environmental Engineering and Water Resources Engineering Lab.</b> (1). (Co-requisite: Credit or concurrent enrollment enrollment [sic] in CE 3803). Three hours laboratory. A laboratory introduction to processes and operations used in systems for water supply and wastewater reclamation.  <b>TO: CE 3801 Environmental Engineering and Water Resources Engineering Lab.</b> (1). (Co-requisite: Credit or concurrent enrollment in CE 3823). Three hours laboratory. A laboratory introduction to processes and operations used in systems for water supply and wastewater reclamation.            Effective: Spring 2017</p>
<p>Technical Change <u>CE 4103/6103</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4103/6103 Pavement Design.</b> (3). (Prerequisite: Grade of C or better in CE 3413 and CE 3313). Three hours lecture. Analysis design of both flexible and rigid pavement structures.  <b>TO: CE 4103/6103 Pavement Design.</b> (3). (Prerequisite: Grade of C or better in CE 3313; or consent of major advisor). Three hours lecture. Analysis design of both flexible and rigid pavement structures.            Effective: Spring 2017</p>

<p>Technical Change <u>CE 4133/6133</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4133/6133 Geometric Design of Highways. (3).</b> (Prerequisite: Grade of C or better in CE 3113).Three hours lecture. Highway finance, organization and planning. Economic analysis. Elements of highway and street design. Computer applications to highway engineering.  <b>TO: CE 4133/6133 Geometric Design of Highways. (3).</b> (Prerequisite: Grade of C or better in CE 3113; consent of major advisor). Three hours lecture. Highway finance, organization and planning, economic analysis, elements of highway and street design, computer applications to highway engineering. Effective: Spring 2017</p>
<p>Technical Change <u>CE 4143/6143</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4143/6143 Traffic Engineering. (3).</b> (Prerequisite: Grade of C or better in CE 3113, credit in ST 3123; or consent of major advisor).Three hours lecture. Three hours lecture. Human and vehicular characteristics as they affect highway traffic flow; traffic regulation, accident cause and prevention; improving flow on existing facilities; planning traffic systems.  <b>TO: CE 4143/6143 Traffic Engineering. (3).</b> (Prerequisite: Grade of C or better in CE 3113, grade of C or better in ST 3123; or consent of major advisor). Three hours lecture. Human and vehicular characteristics as they affect highway traffic flow; traffic regulation, accident cause/prevention; improving flow on existing facilities; planning traffic systems. Effective: Spring 2017</p>
<p>Technical Change <u>CE 4153/6153</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4153/6153 Freight Transportation System. (3).</b> (Prerequisite: CE 3113 and consent of instructor). Three hours lecture. Definition, taxonomy and emerging issues for multi-modal transportation systems with focus on freight transportation and mathematical models for complex logistics and supply chain systems.  <b>TO: CE 4153/6153 Freight Transportation System. (3).</b> (Prerequisite: CE 3113 and consent of instructor; or consent of major advisor). Three hours lecture. Definition, taxonomy and emerging issues for multi-modal transportation systems with focus on freight transportation and mathematical models for complex logistics and supply chain systems. Effective: Spring 2017</p>

<p>Technical Change <u>CE 4163/6163</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4163/6163 Urban Transportation Planning. (3).</b> (Prerequisite: CE 3113 and consent of instructor). Three hours lecture. This course will provide an understanding of the nature of travel demand and methods and computer software used to plan for future transportation systems.  <b>TO: CE 4163/6163 Urban Transportation Planning. (3).</b> (Prerequisite: CE 3113 and consent of instructor; or consent of major advisor). Three hours lecture. This course will provide an understanding of the nature of travel demand and methods and computer software used to plan for future transportation systems.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4183/6183</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4183/6183 Waterborne Transportation Engineering. (3).</b> (Prerequisite: Grade of C or better in CE 3113). Three hours lecture .Navigation vessels and their characteristics. Planning and design of Marine Transportation System facilities including navigation ports, channels and locks.  <b>TO: CE 4183/6183 Waterborne Transportation Engineering. (3).</b> (Prerequisite: Grade of C or better in CE 3113; or consent of major advisor). Three hours lecture. Navigation vessels and their characteristics. Planning and design of Marine Transportation System facilities including navigation ports, channels and locks.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4243/6243</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4243/6243 Land Surveys. (3).</b> (Prerequisites: Grade of C or better in CE 2213).Three hours lecture. Methods of surveying and describing property with emphasis on Mississippi's public land surveys.  <b>TO: CE 4243/6243 Land Surveys. (3).</b> (Prerequisites: Grade of C or better in CE 2213; or consent of major advisor). Three hours lecture. Methods of surveying and describing property with emphasis on Mississippi's public land surveys.  Effective: Spring 2017</p>

<p>Technical Change <u>CE 4433/6433</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4433/6433 Foundations. (3).</b> (Prerequisite: Grade of C or better in CE 3413).Three hours lecture. Introduction to exploration and engineering evaluation of subsoil and groundwater conditions for selection and design of foundations for structures and earth masses.  <b>TO: CE 4433/6433 Foundations. (3).</b> (Prerequisite: Grade of C or better in CE 3413; or consent of major advisor). Three hours lecture. Introduction to exploration and engineering evaluation of subsoil and groundwater conditions for selection and design of foundations for structures and earth masses.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4513/6513</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4513/6513 Engineering Hydrology. (3).</b> (Prerequisite: CE 3523).Three hours lecture. Hydrologic processes; rainfall-runoff analysis; groundwater flow; frequency analysis; hydrologic design.  <b>TO: CE 4513/6513 Engineering Hydrology. (3).</b> (Prerequisite: grade of C or better in CE 3503; or consent of major advisor). Three hours lecture. Hydrologic processes; rainfall-runoff analysis; groundwater flow; frequency analysis; hydrologic design.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4523/6523</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4523/6523 Open Channel Hydraulics. (3).</b> (Prerequisite Grade of C or better in CE 3813). Three hours lecture. Continuity. [sic] Energy and momentum principles in open channel flow; flow resistance; uniform and non-uniform flow; channel controls and transitions; unsteady flow routing.  <b>TO: CE 4523/6523 Open Channel Hydraulics. (3).</b> (Prerequisite: Grade of C or better in CE 3503; or consent of major advisor). Three hours lecture. Continuity, energy and momentum principles in open channel flow, flow resistance, uniform and non-uniform flow, channel controls and transitions, unsteady flow routing.  Effective: Spring 2017</p>

<p>Technical Change <u>CE 4533/6533</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4533/6533 Computational Methods in Water Resources Engineering.</b> (3). (Prerequisite: Grade of C or better in CE 3813). Three hours lecture. Review of relevant numerical analysis; numerical methods for kinematic wave, St. Venant, Boussinesq and depth-averaged [sic] equations; simulation of one- and two-dimensional free-surface flows.  <b>TO: CE 4533/6533 Computational Methods in Water Resources Engineering.</b> (3). (Prerequisite: Grade of C or better in CE 3503; or consent of major advisor). Three hours lecture. Review of relevant numerical analysis; numerical methods for kinematic wave, St. Venant, Boussinesq and dept-averaged equations; simulation of one and two dimension free-surface flows.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4543/6543</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4543/6543 Advanced Reinforced Concrete.</b> (3). (Prerequisite: Grade of C or better in CE 4601 and CE 4633). Three hours lecture. Two-way slab systems, shear walls, retaining walls, bi-axial bending of columns, torsion, brackets and corbels. Introduction to prestressed concrete.  <b>TO: CE 4543/6543 Advanced Reinforced Concrete.</b> (3). (Prerequisite: Grade of C or better in CE 4973; or consent of major advisor). Three hours lecture. Two-way slab systems, shear walls, retaining walls, bi-axial bending of columns, torsion, brackets and corbels. Introduction to prestressed concrete.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4563/6563</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4563/6563 Sedimentation Engineering.</b> (3). (Prerequisite: Grade of C or better in CE 4523/6523). Three hours lecture. Processes by which cohesive and non-cohesive sediments are transported in overland flow and in rivers, reservoirs, estuaries and coastlines. Deposition and erosion rates. Design criteria.  <b>TO: CE 4563/6563 Sedimentation Engineering.</b> (3). (Prerequisite: Grade of C or better in CE 4523; or consent of major advisor). Three hours lecture. Processes by which cohesive and non-cohesive sediments are transported in overland flow and in rivers, reservoirs, estuaries and coastlines. Deposition and erosion rates. Design criteria.  Effective: Spring 2017</p>

<p>Technical Change <u>CE 4583/6583</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4583/6583 Stream Reconnaissance.</b> (3). Three hours lecture. Stream channel form and sedimentary features. Understanding how water flows into trough streams and channel form and function. Hydrologic, hydraulic and geomorphic channel evolution processes.  <b>TO: CE 4583/6583 Stream Reconnaissance.</b> (Prerequisite: Grade of C or better in CE 3503; or consent of major advisor). Three hours lecture. Stream channel form and sedimentary features. Understanding how water flows into trough streams and channel form and function. Hydrologic, hydraulic and geomorphic channel evolution processes.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4633</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4633 Concrete Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603 and CE 3601; credit or current enrollment in CE 4601). Three hours lecture. Theory and problems in the analysis and design of concrete structures.  <b>TO: CE 4633 Concrete Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603). Three hours lecture. Theory and problems in the analysis and design of concrete structures.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4703/6703</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4703/6703 Construction Engineering and Management.</b> (3). (Prerequisite: Senior standing or consent of instructor). Three hours lecture. Construction contracts and law, cost estimating, and project scheduling.  <b>TO: CE 4703/6703 Construction Engineering and Management.</b> (3). (Prerequisite: Grade of C or better in IE 3913, Senior standing or consent of instructor; or consent of major advisor). Three hours lecture. Construction contracts and law, cost estimating, and project scheduling.  Effective: Spring 2017</p>



<p>Technical Change <u>CE 4733/6733</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4733/6733 Construction Engineering Equipment and Methods. (3).</b> Three hours lecture. Aspects of planning, operation and management of civil engineering support equipment, site logistics, equipment cost engineering, power systems and environmental considerations of equipment use.  <b>TO: CE 4733/6733 Construction Engineering Equipment and Methods. (3).</b> (Prerequisite: Grade of C or better in IE 3913, Senior standing or consent of instructor; or consent of major advisor). Three hours lecture. Aspects of planning, operation and management of civil engineering support equipment, site logistics, equipment cost engineering, power systems and environmental considerations of equipment use.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4743/6743</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4743/6743 Analysis and Mitigation of Conflicts, Claims and Disputes. (3).</b> Three hour lecture. Overview of the different techniques used to analyze and mitigate conflicts, claims, and disputes (C2D) in civil engineering projects.  <b>TO: CE 4743/6743 Analysis and Mitigation of Conflicts, Claims and Disputes. (3).</b> Prerequisite: Senior standing or consent of instructor; or consent of major advisor). Three hour lecture. Overview of the different techniques used to analyze and mitigate conflicts, claims, and disputes (C2D) in civil engineering projects.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 4843/6843</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4843/6843 Environmental Engineering Chemistry. (3).</b> (Prerequisite: Grade of C or better in CE 3823 or consent of instructor).Three hours lecture. Introduction to advanced theoretical concepts in sanitary engineering analysis with special emphasis on inorganic, organic, and physical chemistry.  <b>TO: CE 4843/6843 Environmental Engineering Chemistry. (3).</b> (Prerequisite: Grade of C or better in CE 3823 or consent of instructor; or consent of major advisor). Three hours lecture. Introduction to advanced theoretical concepts in sanitary engineering analysis with special emphasis on inorganic, organic, and physical chemistry.  Effective: Spring 2017</p>

<p>Technical Change <u>CE 4863/6863</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4863/6863 Water and Wastewater Engineering.</b> (3). (CE 3823 with grade of C or better). Three hour lecture. Evaluation of municipal water and wastewater characteristics and flows; application of various unit processes/unit operations for the treatment of municipal water and wastewater.</p> <p><b>TO: CE 4863/6863 Water and Wastewater Engineering.</b> (3). (Prerequisite: CE 3823 with grade of C or better; or consent of major advisor). Three hour lecture. Evaluation of municipal water and wastewater characteristics and flows; application of various unit processes/unit operations for the treatment of municipal water and wastewater.</p> <p>Effective: Spring 2017</p>
<p>Technical Change <u>CE 4883/6883</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4883/6883 Engineered Environmental Systems.</b> (3). (Prerequisite: CE 3503 &amp; CE 3823 with grade of C or better). Three hour lecture. Evaluation and characterization of storm water quality; selection, design and application of various treatment technologies; surface water quality management and modeling; and sustainable engineering.</p> <p><b>TO: CE 4883/6883 Engineered Environmental Systems.</b> (3). (Prerequisite: CE 3503 &amp; CE 3823 with grade of C or better; or consent of major advisor). Three hour lecture. Evaluation and characterization of storm water quality; selection, design and application of various treatment technologies; surface water quality management and modeling; and sustainable engineering.</p> <p>Effective: Spring 2017</p>
<p>Technical Change <u>CE 4893/6893</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4893/6893 Hazardous Waste Management.</b> (3). (Prerequisite: Consent of Instructor). Three hours lecture. Examination of state-of-the-art technologies available for the handling treatment; storage; and disposal of hazardous waste materials.</p> <p><b>TO: CE 4893/6893 Hazardous Waste Management.</b> (3). (Prerequisite: Grade of C or better in CE 3823; or consent of major advisor). Three hours lecture. Examination of state-of-the-art technologies available for the handling treatment; storage; and disposal of hazardous waste materials.</p> <p>Effective: Spring 2017</p>

<p>Technical Change <u>CE 4913/6913</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4913/6913 Matrix of Analysis of Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603, or consent of instructor). Matrix formulation and computer analysis of structures. Linear stiffness analysis of truss and frames structures.</p> <p><b>TO: CE 4913/6913 Matrix of Analysis of Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603, or consent of instructor; or consent of major advisor). Matrix formulation and computer analysis of structures. Linear stiffness analysis of truss and frames structures. Effective: Spring 2017</p>
<p>Technical Change <u>CE 4923/6923</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4923/6923 Structural Dynamics.</b> (3). (Grade of C or better in CE 3603, or consent of instructor). Three hours lecture. Response of a single and multi-degree of freedom structures to dynamic loading: free vibration, harmonic excitation, pulses, and earthquakes.</p> <p><b>TO: CE 4923/6923 Structural Dynamics.</b> (3). (Prerequisite: Grade of C or better in CE 3603, or consent of instructor; or consent of major advisor). Three hours lecture. Response of a single and multi-degree of freedom structures to dynamic loading: free vibration, harmonic excitation, pulses, and earthquakes. CE 4923/6923 Structural Dynamics. Effective: Spring 2017</p>
<p>Technical Change <u>CE 4983/6983</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4983/6983 Engineering of Wood Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603). Three hours lecture. Loads on structures. Analysis and design of wood structures using the appropriate specifications. Focus on beams and columns.</p> <p><b>TO: CE 4983/6983 Engineering of Wood Structures.</b> (3). (Prerequisite: Grade of C or better in CE 3603; or consent of major advisor). Three hours lecture. Loads on structures. Analysis and design of wood structures using the appropriate specifications. Focus on beams and columns. Effective: Spring 2017</p>

<p>Technical Change <u>CE 4993/6993</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 4993/6993 Prestressed Concrete Structures. (3).</b> (Prerequisite: Grade of C or better in CE 4953). Three hours lecture. Loads on structures. Analysis and design of prestressed concrete structures using ACI specifications. Focus on beams.  <b>TO: CE 4993/6993 Prestressed Concrete Structures. (3).</b> (Prerequisite: Grade of C or better in CE 4973; or consent of major advisor). Three hours lecture. Loads on structures. Analysis and design of prestressed concrete structures using ACI specifications. Focus on beams.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 8133</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8133 Traffic Flow Theory. (3).</b> (Prerequisite: Grade of C or better in CE 4143/6143). Three hours lecture. An analysis of the engineering and mathematical principles of traffic flow.  <b>TO: CE 8133 Traffic Flow Theory. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. An analysis of the engineering and mathematical principles of traffic flow.  Effective: Spring 2017</p>
<p>Technical Change <u>CE 8143</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8143 Traffic Simulation and Advanced Traffic Management. (3).</b> (Prerequisite: CE 4143/6143 or one computer programming related course).Introduction of traffic control concepts. Understanding of existing traffic control systems. In-depth knowledge of traffic simulation.  <b>TO: CE 8143 Traffic Simulation and Advanced Traffic Management. (3).</b> (Prerequisite: Consent of Major Advisor). Introduction of traffic control concepts. Understanding of existing traffic control systems. In-depth knowledge of traffic simulation.  Effective Spring 2017</p>

Technical Change	<u>CE 8163</u>	<b>Approved</b>	<p><b>FROM: CE 8163 Public Transportation. (3).</b> (Prerequisite: CE 4153/6153 or consent of instructor). Three hours lecture. Principles of efficient management, and planning of public transportation systems: capabilities and limitations, optimal scale and layout, design and operation of transit systems.</p> <p><b>TO: CE 8163 Public Transportation. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Principles of efficient management, and planning of public transportation systems: capabilities and limitations, optimal scale and layout, design and operation of transit systems.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8203</u>	<b>Approved</b>	<p><b>FROM: CE 8203 Finite Element Modeling in CEE. (3).</b> Three hours lecture. Modern finite element methods for continuum [sic] mechanical models relevant to civil and environmental engineering, including surface and subsurface fluid flow, mass transport, and solid mechanics.</p> <p><b>TO: CE 8203 Finite Element Modeling in CEE. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Modern finite element methods for continuum mechanical models relevant to civil and environmental engineering, including surface and subsurface fluid flow, mass transport, and solid mechanics.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8303</u>	<b>Approved</b>	<p><b>FROM: CE 8303 Material Characterization. (3).</b> (Prerequisite: CE 3413 and CE 3313 or equivalent). Three hours lecture. Characterization of advanced material behaviors for pavement subgrades, bases and surface courses, Stree dependency, viscoelasticity, repeated load moduli, and stabilization are central behaviors of interest.</p> <p><b>TO: CE 8303 Material Characterization. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Characterization of advanced material behaviors for pavement subgrades, bases and surface courses, Stree dependency, viscoelasticity, repeated load moduli, and stabilization are central behaviors of interest.</p> <p>Effective: Spring 2017</p>

<p>Technical Change      <u>CE 8313</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8313 Materials Science and Durability of Concrete. (3).</b> (Prerequisite: Consent of Instructor). Three hours lecture. Materials science of concrete and cement-based materials with a focus on materials specification and testing as well as identifying mechanisms of material degradation.  <b>TO: CE 8313 Materials Science and Durability of Concrete. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Materials science of concrete and cement-based materials with a focus on materials specification and testing as well as identifying mechanisms of material degradation.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8333</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8333 Pavement Performance and Rehabilitation. (3).</b> (Prerequisites: CE 3313, 3413, and CE 4103/6103, or consent of instructor). Three hours lecture. Field methods for evaluating pavement performance including surveys, profiling, and frictional resistance. Impulse deflection testing of structural integrity. Pavement preservation and rehabilitation techniques.  <b>TO: CE 8333 Pavement Performance and Rehabilitation. (3).</b> (Prerequisites: Consent of Advisor). Three hours lecture. Field methods for evaluating pavement performance including surveys, profiling, and frictional resistance. Impulse deflection testing of structural integrity. Pavement preservation and rehabilitation techniques.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8343</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8343 Advanced Pavement Materials. (3).</b> (Prerequisite: Consent of Major Advisor). CE 3413 and CE 3313, or equivalent). Three hours lecture. Properties, behavior and performance of highway and airfield paving materials; principally asphalt and concrete. Quality control and assurance. Constitute material properties and specifications.  <b>TO: CE 8343 Advanced Pavement Materials. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Properties, behavior and performance of highway and airfield paving materials; principally asphalt and concrete. Quality control and assurance. Constitute material properties and specifications.  Effective: Spring 2017</p>

Technical Change	<u>CE 8413</u>	Approved	<p><b>FROM: CE 8413 Advanced Geotechnical Site Characterization. (3).</b> (Prerequisite: Consent of Instructor). Three hours lecture. Fundamentals of geotechnical engineering site characterization and special techniques for large projects involving difficult complex geological soils.</p> <p><b>TO: CE 8413 Advanced Geotechnical Site Characterization. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Fundamentals of geotechnical engineering site characterization and special techniques for large projects involving difficult complex geological soils.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8423</u>	Approved	<p><b>FROM: CE 8423 Geotechnical Earthquake Engineering. (3).</b> (Prerequisite: Grade of C or better in CE 3413 or Consent of Instructor). Three hours lecture. Dynamic soil properties, seismic site response analysis, and evaluation of soil liquefaction, seismic stability of dams and embankments, seismic aspects of foundation design.</p> <p><b>TO: CE 8423 Geotechnical Earthquake Engineering. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Dynamic soil properties, seismic site response analysis, and evaluation of soil liquefaction, seismic stability of dams and embankments, seismic aspects of foundation design.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8433</u>	Approved	<p><b>FROM: CE 8433 Advanced Foundations. (3).</b> (Prerequisite: Grade of C or better in CE 4433 or consent of instructor). Three hours lecture. A continuation of CE 3433 with emphasis on unusual soil conditions and foundations.</p> <p><b>TO: CE 8433 Advanced Foundations. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. A continuation of CE 3433 with emphasis on unusual soil conditions and foundations.</p> <p>Effective: Spring 2017</p>

Technical Change	<u>CE 8443</u>	Approved	<p><b>FROM: CE 8443 Soil Behavior. (3).</b> (Prerequisite: Grade of C or better in CE 3413 or equivalent). Three hours lecture. Review of methods of testing to define response; rationale for choosing shear strength and deformation parameters for soils for design applications.</p> <p><b>TO: CE 8443 Soil Behavior. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Review of methods of testing to define response; rationale for choosing shear strength and deformation parameters for soils for design applications.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8453</u>	Approved	<p><b>FROM: CE 8453 Physical Properties of Soils. (3).</b> (Prerequisite: Grade of C or better in CE 3413). Three hours lecture. Three hours laboratory. A study of the physical properties of soil masses as related to foundation engineering.</p> <p><b>TO: CE 8453 Physical Properties of Soils. (3).</b> (Prerequisite: Consent of Major Advisor). Three hours lecture. Three hours laboratory. A study of the physical properties of soil masses as related to foundation engineering.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8463</u>	Approved	<p><b>FROM: CE 8463 Slopes &amp; Embankments. (3).</b> (Prerequisite: Consent of Major Advisor). Analysis and design of geotechnical systems placed on an angle from the horizontal.</p> <p><b>TO: CE 8463 Slopes &amp; Embankments. (3).</b> (Prerequisite: Consent of Major Advisor). Analysis and design of geotechnical systems placed on an angle from the horizontal.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8473</u>	Approved	<p><b>FROM: CE 8473 Theoretical Soil Mechanics. (3).</b> (Prerequisite: Consent of Instructor). Three hours lecture. Modern interpretation of soil behavior for engineering applications. Extrapolation of actual conditions from standard testing results.</p> <p><b>TO: CE 8473 Theoretical Soil Mechanics. (3).</b> (Prerequisite: Consent of Advisor). Three hours lecture. Modern interpretation of soil behavior for engineering applications. Extrapolation of actual conditions from standard testing results.</p> <p>Effective: Spring 2017</p>



Technical Change	<u>CE 8503</u>	Approved	<p><b>FROM: CE 8503 Data Analysis for CEE.</b> (3). (Prerequisite: MA 3253). Three hours lecture. Analysis and interpretation of civil and environmental engineering data. Empirical, analytic, and statistical decomposition of spatial and temporal data to determine meaning.</p> <p><b>TO: CE 8503 Data Analysis for CEE.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Analysis and interpretation of civil and environmental engineering data. Empirical, analytic, and statistical decomposition of spatial and temporal data to determine meaning.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8533</u>	Approved	<p><b>FROM: CE 8533 Hydromechanics.</b> (3). (Prerequisite: Consent of instructor). Three hours lecture. Mechanics of incompressible unsteady, turbulent flows. Equations of motion, hydrodynamic forces on structures, introduction to turbulence.</p> <p><b>TO: CE 8533 Hydromechanics.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Mechanics of incompressible unsteady, turbulent flows. Equations of motion, hydrodynamic forces on structures, introduction to turbulence.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8543</u>	Approved	<p><b>FROM: CE 8543 Tidal Hydraulics.</b> (3). (Prerequisite: Consent of instructor). Three hours lecture. Hydrodynamics [sic] and transport in tidal bays and estuaries. Unsteady, non-uniform stratified flows, tides, waves, currents, circulation, salinity intrusion, and sedimentation, and engineering analysis and works.</p> <p><b>TO: CE 8543 Tidal Hydraulics.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Hydrodynamics and transport in tidal bays and estuaries. Unsteady, non-uniform stratified flows, tides, waves, currents, circulation, salinity intrusion, and sedimentation, and engineering analysis and works.</p> <p>Effective: Spring 2017</p>

<p>Technical Change      <u>CE 8553</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8553 Rivers, Estuaries and Coasts.</b> (3). (Prerequisite: Consent CE 4523/6523 or equivalent course or consent of instructor). Three hours lecture. Basic introduction to the physical processes in river, estuaries, and coastal zones. Engineered solutions to common problems concerning flow and sedimentation.  <b>TO: CE 8553 Rivers, Estuaries and Coasts.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Basic introduction to the physical processes in river, estuaries, and coastal zones. Engineered solutions to common problems concerning flow and sedimentation.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8563</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8563 Groundwater Resource Evaluation.</b> (3). (Prerequisite: Grade C or better in CE 3813). Three hours lecture. Groundwater movement; Darcy's law; equations of groundwater flow; confined and unconfined flow; wells and well field analysis; groundwater quality; aquifer management.  <b>TO: CE 8563 Groundwater Resource Evaluation.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Groundwater movement; Darcy's law; equations of groundwater flow; confined and unconfined flow; wells and well field analysis; groundwater quality; aquifer management.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8573</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8573 Hydro-environmental Analysis.</b> (3). (Prerequisite: Consent of instructor) Three hours lecture. Environmental engineering aspects of physical/chemical/ biological processes impacting conventional and toxic materials in surface waters. Characteristics of rivers/streams, lakes and estuaries related to environmental quality.  <b>TO: CE 8573 Hydro-environmental Analysis.</b> (3). (Prerequisite: Consent of Major Advisor.) Three hours lecture. Environmental engineering aspects of physical/chemical/ biological processes impacting conventional and toxic materials in surface waters. Characteristics of rivers/streams, lakes and estuaries related to environmental quality.  Effective: Spring 2017</p>

Technical Change	<u>CE 8593</u>	Approved	<p><b>FROM: CE 8593 Environmental Hydrology.</b> (3). (Prerequisite: Consent of instructor). Three hours lecture. Discuss hydrologic cycle and its effects on water quality; principles and models for pollutant transport and transformations in surface runoff, in-stream, unsaturated soil, and groundwater.</p> <p><b>TO: CE 8593 Environmental Hydrology.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Discuss hydrologic cycle and its effects on water quality; principles and models for pollutant transport and transformations in surface runoff, in-stream, unsaturated soil, and groundwater.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8603</u>	Approved	<p><b>FROM: CE 8603 Mat Struct Analysis II.</b> (3). (Prerequisite: Grade of B or better in CE 4913/6913). Advanced topics in matrix structural analysis using the direct stiffness method.</p> <p><b>TO: CE 8603 Mat Struct Analysis II.</b> (3). (Prerequisite: Consent of Major Advisor). Advanced topics in matrix structural analysis using the direct stiffness method.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8623</u>	Approved	<p><b>FROM: CE 8623 Theory of Plates and Shells.</b> (3). (Prerequisites: Grade of B or better in CE 3603 or consent of instructor). Three hours lecture. Equations of equilibrium for plates, slabs, and shells.</p> <p><b>TO: CE 8623 Theory of Plates and Shells.</b> (3). (Prerequisites: Consent of Major Advisor.) Three hours lecture. Equations of equilibrium for plates, slabs, and shells.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8653</u>	Approved	<p><b>FROM: CE 8653 Computational Inelasticity.</b> (3). Three hour lecture. Computational methods and finite elements applied to inelastic deformations of solids; deformation continuum plasticity, viscoplasticity and viscoelasticity; with application to metals, soils, concrete, and polymers.</p> <p><b>TO: CE 8653 Computational Inelasticity.</b> (3). (Prerequisite: Consent of Major Advisor). Three hour lecture. Computational methods and finite elements applied to inelastic deformations of solids; deformation continuum plasticity, viscoplasticity and viscoelasticity; with application to metals, soils, concrete, and polymers.</p> <p>Effective: Spring 2017</p>

Technical Change	<u>CE 8673</u>	Approved	<p><b>FROM: CE 8673 Blast Effects and Structures Responses.</b> (3). (Prerequisite: Consent of instructor). Three hours lecture. Fundamental blast phenomena. Blast loadings on structures and effects on occupants. Design and analysis of structural elements and systems subjected to blast.</p> <p><b>TO: CE 8673 Blast Effects and Structures Responses.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Fundamental blast phenomena. Blast loadings on structures and effects on occupants. Design and analysis of structural elements and systems subjected to blast.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8683</u>	Approved	<p><b>FROM: CE 8683 Finite Element Analysis in Structural Engineering.</b> (3). (Prerequisite: CE 4663/6663). Three hours lecture. Energy and elasticity principles. Development of planar three-dimensional and curved elements. Applications to plates and shells. Use of computer programs.</p> <p><b>TO: CE 8683 Finite Element Analysis in Structural Engineering.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Energy and elasticity principles. Development of planar three-dimensional and curved elements. Applications to plates and shells. Use of computer programs.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8713</u>	Approved	<p><b>FROM: CE 8713 Green Building Systems.</b> (3). Three hour lecture. Understanding negative impacts of construction on the societal sustainability and using life-cycle assessment, systems analysis and economic valuation for mitigation.</p> <p><b>TO: CE 8713 Green Building Systems.</b> (3). (Prerequisite: Consent of Major Advisor). Three hour lecture. Understanding negative impacts of construction on the societal sustainability and using life-cycle assessment, systems analysis and economic valuation for mitigation.</p> <p>Effective: Spring 2017</p>

Technical Change	<u>CE 8803</u>	Approved	<p><b>FROM: CE 8803 Unit Processes and Operations in Environmental Engineering I.</b> (3). Three hours lecture. Theory and application of physical and chemical unit processes and operations available for the treatment of water and wastewater.</p> <p><b>TO: CE 8803 Unit Processes and Operations in Environmental Engineering I.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Theory and application of physical and chemical unit processes and operations available for the treatment of water and wastewater.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8823</u>	Approved	<p><b>FROM: CE 8823 Unit Processes and Operations in Environmental Engineering II.</b> (3). Three hours lecture. Theory and application of biological processes available for the treatment of wastewater.</p> <p><b>TO: CE 8823 Unit Processes and Operations in Environmental Engineering II.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Theory and application of biological processes available for the treatment of wastewater.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>CE 8863</u>	Approved	<p><b>FROM: CE 8863 Solid Waste Management.</b> (3). (Prerequisite: CE 3824) Three hours lecture. Define and characterize non-hazardous solid wastes and how to minimize, handle, transport, store, recycle and dispose of these materials.</p> <p><b>TO: CE 8863 Solid Waste Management.</b> (3). (Prerequisite: Consent of Major Advisor.) Three hours lecture. Define and characterize non-hazardous solid wastes and how to minimize, handle, transport, store, recycle and dispose of these materials.</p> <p>Effective: Spring 2017</p>

<p>Technical Change      <u>CE 8923</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8923 Surface Water Quality Modeling.</b> (3). (Prerequisite: Consent of instructor). Development of the mathematical formulations describing the distribution of concentration of conservative [sic] and nonconservative pollutants describing the distribution of concentration of conservative in natural waters.  <b>TO: CE 8923 Surface Water Quality Modeling.</b> (3). (Prerequisite: Consent of Major Advisor). Development of the mathematical formulations describing the distribution of concentration of conservative and nonconservative pollutants describing the distribution of concentration of conservative in natural waters.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8933</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8933 Surface Water Quality Modeling II.</b> (3). (Prerequisite: CE 8923) Three hours lecture. Advanced topics related to surface water quality modeling. Overview of the present state-of-the-art of modeling, analysis eutrophication, toxic materials (organice [sic] chemicals and metals) and review of recent trends.  <b>TO: CE 8933 Surface Water Quality Modeling II.</b> (3). (Prerequisite: Consent of Major Advisor.) Three hours lecture. Advanced topics related to surface water quality modeling. Overview of the present state-of-the-art of modeling, analysis eutrophication, toxic materials (organic chemicals and metals) and review of recent trends.  Effective: Spring 2017</p>
<p>Technical Change      <u>CE 8953</u></p>	<p><b>Approved</b></p>	<p><b>FROM: CE 8953 Fine Sediment Processes.</b> (3). (Prerequisite: Consent of Instructor). Three hours lecture. Fine sediment processes in transport, deposition, and erosion by water. Fluid-particle interactions, flocculation process in clay sediments, lutocline, formations and fluid mud, bed formation processes.  <b>TO: CE 8953 Fine Sediment Processes.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Fine sediment processes in transport, deposition, and erosion by water. Fluid-particle interactions, flocculation process in clay sediments, lutocline, formations and fluid mud, bed formation processes.  Effective: Spring 2017</p>

Technical Change	<u>CE 8963</u>	Approved	<p><b>FROM: CE 8963 Hydraulics of Closed Conduits.</b> (3). (Prerequisite: Consent of instructor). Three hours lecture. Analysis of steady, quasi-steady, time-dependent, and transient conduit flow; flow resistance; system components; distribution systems; compute applications to closed conduits.</p> <p><b>TO: CE 8963 Hydraulics of Closed Conduits.</b> (3). (Prerequisite: Consent of Major Advisor). Three hours lecture. Analysis of steady, quasi-steady, time-dependent, and transient conduit flow; flow resistance; system components; distribution systems; compute applications to closed conduits.</p> <p>Effective: Spring 2017</p>
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### FOREST RESOURCES

Technical Change	<u>WFA 4283</u>	Approved	<p><b>WFA 4283 Human-Wildlife Conflict Techniques.</b> Unlink the graduate and undergraduate options for this course, so the graduate level version (WFA 6283) can be deleted.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>WFA 4363</u>	Approved	<p><b>WFA 4363 Wildlife and Fisheries Administration and Communication.</b> Unlink the graduate and undergraduate options for this course, so the graduate level version (WFA 6363) can be deleted.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>WFA 6283</u>	Approved	<p><b>WFA 6283 Human-Wildlife Conflict Techniques.</b> Unlink the graduate and undergraduate options for this course, so the graduate level version (WFA 6283) can be deleted.</p> <p>Effective: Spring 2017</p>
Technical Change	<u>WFA 6363</u>	Approved	<p><b>WFA 6363 Wildlife and Fisheries Administration and Communication.</b> Unlink the graduate and undergraduate options for this course, so the graduate level version (WFA 6363) can be deleted.</p> <p>Effective: Spring 2017</p>

2. Program Proposals by college/school:

**AGRICULTURE AND LIFE SCIENCE**

Modification	<b>Degree:</b> BS <b>Major:</b> Poultry Science	<b>Approved</b>	See proposal for list of revisions.  Effective: Fall 2017
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**ARTS AND SCIENCES**

Modification	<b>Degree:</b> MA <b>Major:</b> Foreign Language	<b>Approved</b>	Approved by Graduate Council.  Effective: Fall 2017
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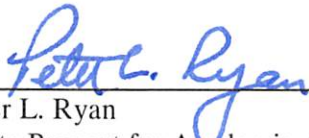
**EDUCATION**


Modification	<b>Degree:</b> MS <b>Major:</b> Education <b>Concentration:</b> Counselor Education, School Counseling	<b>Approved</b>	Forwarded to Graduate Council.
Addition	<b>Degree:</b> MS <b>Major:</b> Kinesiology <b>Concentration:</b> Disability Studies	<b>Passed Contingent</b>	
Modification	<b>Degree:</b> Ph.D. <b>Major:</b> Kinesiology <b>Concentrations:</b> Exercise Science; Sport Studies	<b>Passed Contingent</b>	
Modification	<b>Degree:</b> Ph.D. <b>Major:</b> Educational Psychology <b>Concentration:</b> General Educational Psychology & School Psychology	<b>Approved</b>	Forwarded to Graduate Council



All of the proposals were approved with the exception of the following:  
Proposals\*\*

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Dr. Peter L. Ryan  
Associate Provost for Academic Affairs

  
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Date