CIVIL AND ENVIRONMENTAL ENGINEERING (CEE)

# Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

CEE #800 - Building Information Modeling
Credits: 3
Building Information Modeling (BIM) is the process of generating and managing project data during its life cycle by integrating 3D multidisciplinary drawings with dynamic scheduling and visualization. BIM provides a digital representation of project data to facilitate the exchange of information beyond the standard two dimensional plan set. This course introduces students to the fundamentals of model creation, scheduling, material take-offs, visualizations, and animations that improve the communication of information to potential clients. Prereq: AUTOCAD Experience or by permission.
Equivalent(s): CIE 880
Grade Mode: Letter Grading

CEE 804 - Transportation Engineering and Planning
Credits: 3
Fundamental relationships of traffic speed, density, and flow applied to public and private modes of transport. Principles of demand forecasting and urban systems planning. Prereq: permission.
Equivalent(s): CIE 854
Grade Mode: Letter Grading

CEE 805 - Introduction to Sustainable Engineering
Credits: 3
Course begins with exploration of the precept that we live in, and must design engineering works for, a world with a finite supply of natural resources and with limited life support capacity. Tools for sustainability engineering are the major focus of the course, which include life cycle, analysis and life cycle impact analysis, the metrics and mass and energy flow analyses used in the field of industrial ecology, and environmental management systems.
Equivalent(s): CIE 851
Grade Mode: Letter Grading

CEE 806 - Environmental Life Cycle Assessment
Credits: 3
This course teaches knowledge and hands-on skills in conducting environmental life cycle assessment (LCA), which is a widely used technique by industries, academics, and governments. Students will learn to use popular LCA software (e.g., SimaPro), apply proper LCA techniques, critically analyze LCA results, and provide client-oriented suggestions during this course. Class time is primarily devoted to a combination of lectures and computer labs.
Grade Mode: Letter Grading

CEE #819 - Green Building Design
Credits: 3
This course gives an overview of green designs and sustainable practices in building construction. We cover technical topics and requirements of a nationally recognized rating system (LEED), with a specific focus on Green Building Design and Construction. Students are introduced to basic building designs and systems related to sustainability. Additionally, they learn about green design topics such as site plans, water and energy efficiency, material and resources usage, environmental quality and renewable energy source. As an outcome of the course, students are able to assess and incorporate green technologies and designs into building projects. They are prepared to contribute in building projects that target LEED certifications. Students are also capable to engage in green practices within their existing built environments.
Equivalent(s): CIE 881
Grade Mode: Letter Grading

CEE 820 - Solid and Hazardous Waste Engineering
Credits: 3
A thorough examination of the problems which exist in hazardous and solid waste management will be presented in terms of the current regulations and engineering approaches used to develop solutions. Topics will include risk-based decision making, transport and fate of contaminants, and the fundamental physical, chemical and biological concepts which make up the basis for technological solutions to these waste management problems. Case studies will be used throughout the course to highlight key concepts and provide real-world examples.
Equivalent(s): CIE 842
Grade Mode: Letter Grading

CEE 821 - Environmental Sampling and Analysis
Credits: 4
Theory of analytical and sampling techniques used in environmental engineering. Topics include potentiometry, spectroscopy, chromatography, automated analysis, quality control, sampling design, and collection methods. Methods discussed in lecture are demonstrated in labs.
Grade Mode: Letter Grading

CEE 822 - Introduction to Marine Pollution and Control
Credits: 4
Introduction to the sources, effects, and control of pollutants in the marine environment. Dynamic and kinetic modeling; ocean disposal of on-shore wastes, shipboard wastes, solid wastes, dredge spoils, and radioactive wastes; and oil spills. Prereq: CEE 620 or permission.
Equivalent(s): CIE 847
Grade Mode: Letter Grading

CEE 823 - Environmental Water Chemistry
Credits: 4
Emphasizes the use of chemical equilibrium principles and theory, calculations, and applications of ionic equilibrium stresses. Topics include thermodynamics, kinetics, acid/base, complexation, precipitation/dissolution, and redox equilibria. Computer equilibrium modeling is presented. Prereq: general chemistry or equivalent.
Equivalent(s): CIE 849
Grade Mode: Letter Grading
CEE 824 - Environmental Engineering Microbiology
Credits: 4
Concepts of environmental engineering microbiology including microbial metabolism, growth kinetics, bioremediation applications, mass transfer kinetics and effects of environmental parameters. Coursework includes reading and discussion of the microbial literature. Laboratories cover microbiological monitoring and biological treatment experiments. Prereq: CEE 620 or permission. Lab.
Equivalent(s): CIE 856
Grade Mode: Letter Grading

CEE 830 - Public Health Engineering for Rural and Developing Communities
Credits: 3
The design principles are to impart to the student specific information that can be used to design public health control facilities such as small water treatment systems and on-site wastewater disposal systems. The engineering control methods taught are particularly applicable to rural areas and developing countries. Prereq: permission.
Equivalent(s): CIE 840
Grade Mode: Letter Grading

CEE 831 - Advanced Water Treatment Design
Credits: 4
Selection, design, and evaluation of advanced unit processes employed in the treatment of water, wastewater, and hazardous wastes. Emphasis given on treatment schemes based on experimental laboratory or pilot studies.
Grade Mode: Letter Grading

CEE 832 - Solid and Hazardous Waste Design
Credits: 4
Selection, design, and evaluation of unit processes employed in the treatment of solid wastes and hazardous wastes will be studied. Topics include design of materials recovery facilities, landfills, waste-to-energy facilities and hazardous waste site remedial technologies. A group term project taken from a real-world project will be required. An oral presentation by the group and preparation of a final written engineering report including alternative evaluation, permits, scheduling and economic analysis will be required from each group. Prereq: CEE 720. permission.
Equivalent(s): CIE 848
Grade Mode: Letter Grading

CEE 833 - Public Infrastructure Asset Management
Credits: 4
The course provides a thorough examination of the growing engineering field of Public Infrastructure Assess Management (IAM). The course enables the student to design an IAM system. It touches upon all types of public infrastructure with a particular focus on water infrastructure for the semester design project. Students build upon their engineering economics and project engineering skills and use simple IAM software along with GIS applications. Practice leaders from the industry provide guest lectures throughout the semester. A focus on triple bottom line or the Societal, Environmental and Economic aspects of IAM are included. The format is a modified team base design learning experience providing practice in processing of technical lecture material, personal performance evaluation (frequent quizzes) and team based performance evaluation. Student groups will present their design to the class and provide a written engineering report. Pre- or Coreq: CEE 502 and CEE 620.
Equivalent(s): CIE 839
Grade Mode: Letter Grading

CEE 835 - Properties and Production of Concrete
Credits: 3
Basic properties of hydraulic cements and mineral aggregates and their interactions in the properties of plastic and hardened concrete; modifications through admixtures; production handling and placement problems; specifications; quality control and acceptance testing; lightweight, heavyweight, and other special concretes. Prereq: CEE 635 or permission.
Equivalent(s): CIE 822
Grade Mode: Letter Grading

CEE 836 - Asphalt Mixtures and Construction
Credits: 3
Specification of asphalt cements, aggregates and proportioning of mixture constituents for paving applications. Asphalt mixture design methods, production, construction, and quality control are discussed. Current and new material production and construction technologies are introduced. Prereq: CEE 635 or permission.
Equivalent(s): CIE 823
Grade Mode: Letter Grading

CEE 837 - Pavement Rehabilitation, Maintenance, and Management
Credits: 3
This course covers the technical and financial strategies to extend the life of highway and airfield pavements. The course topics will include: Assessment of pavement functional and structural condition, suitability of pavement maintenance and repair techniques, use of pavement preservation processes, and application of asset management to extend the life of pavement infrastructure.
Grade Mode: Letter Grading

CEE 848 - Pavement Design Project
Credits: 1
Semester long design project accompanying CEE 849 Pavement Design Analysis. The design project will require weekly meetings (either online or in person) for the duration of the semester. Meeting times will be arranged based on student schedules.
Co-requisite: CEE 849
Grade Mode: Letter Grading

CEE 849 - Pavement Design Analysis
Credits: 3
Introduction to flexible and rigid pavement design and analysis for highways and airports. Examines design inputs, materials, analysis methods, design tools, and maintenance treatments. Prereq: CEE 635 and CEE 665.
Equivalent(s): CIE 821
Grade Mode: Letter Grading

CEE #850 - Echohydrology
Credits: 3
Introduction to echohydrological concepts in terrestrial and riverine systems. Topics include the historical practices, resources management impacts, hydrologic variability and the relationships among water and ecology, vegetation, biology, geomorphology, and water quality. Prereq: CEE 854 or ESCI 805; or permission.
Equivalent(s): CIE 850
Grade Mode: Letter Grading
CEE 851 - Open Channel Flow  
Credits: 3  
Energy and momentum principles in open channel flow; flow resistance;  
channel controls and transitions; unsteady flow concepts and dam failure  
studies. Modeling with HEC programs. Prereq: CEE 650 or permission.  
Equivalent(s): CIE 841  
Grade Mode: Letter Grading

CEE 854 - Engineering Hydrology  
Credits: 3  
Hydrologic cycle, probability theory related to hydrology and the design  
of water resources structures, water flow, flood discharge prediction,  
hydrograph development, hydraulic and hydrologic river routing, reservoir  
routing, theory of storage, reservoir operations, hydropower development,  
modeling of watershed hydrology with program HEC-1, HEC-HMS,  
multipurpose projects.  
Equivalent(s): CIE 845  
Grade Mode: Letter Grading

CEE 855 - Design of Pressurized Water Transmission Systems  
Credits: 4  
Theory developed for individual components to large complex systems.  
Analysis and designs of components and systems. Topics include steady  
and unsteady closed conduit flow, valves and meters, pump requirements,  
pump selection, system planning and layout, water hammer, and system  
operation and maintenance. Pressure system modeling with program  
EPANET. Prereq: Fluid mechanics, or permission.  
Equivalent(s): CIE 855  
Grade Mode: Letter Grading

CEE #857 - Coastal Engineering and Processes  
Credits: 3  
Introduction to small amplitude and finite amplitude wave theories. Wave  
forecasting by significant wave and wave spectrum method. Coastal  
processes and shoreline protection. Wave forces and wave-structure  
interaction. Design of coastal structures. Introduction to mathematical  
and physical modeling. Prereq; CEE 650 or permission. (Also offered as  
ME 857 and OE 857.)  
Equivalent(s): CIE 857, ME 857, OE 857  
Grade Mode: Letter Grading

CEE 858 - Stormwater Management Designs  
Credits: 3  
Historic review of stormwater management leading up to the current  
regulatory framework. Overview of stormwater management strategies,  
strategy selection and the targeting of specific contaminants,  
contaminant removal efficiencies, construction and site selection, and  
system maintenance. Hydrologic concepts including watershed and  
storm characteristics, design hydrology (peak flows, storm and treatment  
VOLUMES), hydrograph routing, and critical review of hydrology and  
Drainage reports. Design and sizing of treatment systems including  
conventional BMPs, low impact development, and manufactured devices.  
Rainfall runoff calculations with US SCS TR55 model. Prereq: Fluid  
mechanics or permission.  
Equivalent(s): CIE 858  
Grade Mode: Letter Grading

CEE 859 - Stream Restoration  
Credits: 4  
Explores the assessment, planning, design, engineering, and monitoring  
of stream and watershed practices intended to protect and restore the  
quality and quantity of flowing and surface waters and stream corridors.  
Lecture material covers hydrology, geomorphology, and ecosystems, with  
the intent of understanding the variables associated with stream systems  
and their interplay. Students measure field variables and then are  
challenged with actual designs. Examples of stream restoration issues  
include in-stream flow, dam removal, induced recharge, improvements to  
fish habitat, and channel stabilization. Prereq: CEE 650.  
Equivalent(s): CIE 859  
Grade Mode: Letter Grading

CEE 865 - Engineering Behavior of Soils  
Credits: 4  
Review of stress and strain in soil. Introduction to continuum mechanics.  
Development of engineering soil properties. Application of soil mechanics  
to shear strength and stress-strain behavior of soils. Failure states and  
Unsaturated soil mechanics. Laboratory exercises using the direct  
 shear test, triaxial test, and soil-water retention measurements. Prereq:  
Foundation design or equivalent or permission.  
Equivalent(s): CIE 867  
Grade Mode: Letter Grading

CEE 866 - Introduction to Geotechnical Earthquake Engineering  
Credits: 3  
Overview of earthquake source mechanisms; magnitude and intensity;  
seismicity of the U.S.A. Dynamics of simple structures; response  
spectra. Selection of design parameters; source, magnitude, input  
records. Measurement of dynamic characteristics of soils; site response,  
liquefaction, and ground deformation. Prereq: CEE 878 or permission.  
Equivalent(s): CIE 862  
Grade Mode: Letter Grading

CEE 867 - Geological Engineering  
Credits: 3  
Functional classification of rocks and rock masses. Stereographic  
projection. Engineering properties of rocks. Rock mechanics. The  
influence of geology in the design of underground excavations, tunneling,  
foundations, and rock slope engineering. Prereq: ESCI 401 or permission.  
Equivalent(s): CIE 863  
Grade Mode: Letter Grading

CEE 868 - Geo-Environmental Engineering  
Credits: 3  
Soil composition and structure; hydrogeology; attenuation and  
contaminant transport; containment design including landfills,  
geosynthetics for liners and covers, leachate collection systems,  
vertical cutoff walls, and stability analyses; geo-environmental site  
characterization and investigation using geotechnical and geophysical  
methods; ground water, soil and gas monitoring, and sampling;  
remediation including in-situ and ex-situ techniques and treatment  
methods. Prereq: CEE 665 or permission.  
Equivalent(s): CIE 866  
Grade Mode: Letter Grading
CEE 878 - Foundation Design I  
Credits: 4  
Foundation design based on subsurface investigation and characterization using current methods of laboratory and in situ testing. Use of consolidation theory and bearing capacity theory for the design of shallow foundations, including footings and rafts. Basic design of pile foundations. Earth pressure theory applied to design of retaining walls. Slope stability theory and applications. Prereq: CEE 665 or permission.  
Equivalent(s): CIE 860  
Grade Mode: Letter Grading  

CEE 879 - Foundation Design II  
Credits: 3  
Advanced pile and pier design under vertical and lateral loads. Slope stability by circular and noncircular arc methods. Design of flexible bulkhead walls and mechanically stabilized walls. Excavation and dewatering. Soil and site improvement. Prereq: CEE 878 or permission.  
Equivalent(s): CIE 861  
Grade Mode: Letter Grading  

CEE 880 - Matrix Structural Analysis and Modeling  
Credits: 3  
Modeling and analysis of determinate and indeterminate structures by matrix computer methods. Creation of matrix elements using compatibility, equilibrium, and consecutive relationships. Plane trusses, beams, frames, and space trusses. Prereq: CEE 680 or permission.  
Equivalent(s): CIE 883  
Grade Mode: Letter Grading  

CEE 881 - Dynamics of Structures  
Credits: 3  
Equivalent(s): CIE 887  
Grade Mode: Letter Grading  

CEE 889 - Timber Design  
Credits: 3  
Equivalent(s): CIE 882  
Grade Mode: Letter Grading  

CEE 890 - Structural Design in Masonry  
Credits: 3  
Introduces the design of reinforced masonry structural members by the stress and strength method and considering deflection and other serviceability performance criteria. Includes development of wind and seismic load, curtain wall, shear wall, lintels and columns. Prereq: CEE 635, 680; or permission.  
Equivalent(s): CIE 876  
Grade Mode: Letter Grading  

CEE 891 - Reinforced Concrete Design  
Credits: 0 or 4  
Introduction to the design of reinforced concrete structural members by the strength method and considering deflection performance. Includes loads, approximate analysis, slabs, beams, and columns. Prereq: CEE 635, 680; or permission.  
Equivalent(s): CIE 874  
Grade Mode: Letter Grading  

CEE 892 - Pre-stressed Concrete  
Credits: 3  
Analysis and design of pre-stressed and post-tensioned concrete sections in flexure and shear. Strength, deflection, and losses in flexural members. Optimization of section and pre-stressing force selection. Prereq: CEE 891 or permission.  
Equivalent(s): CIE 891  
Grade Mode: Letter Grading  

CEE 893 - Structural Design in Steel  
Credits: 4  
Introduction to steel member design, including horizontal and vertical members for design and analysis of buildings. Examines design methodologies. Prereq: CEE 891 or permission.  
Equivalent(s): CIE 893  
Grade Mode: Letter Grading  

CEE 894 - LRFD Bridge Design  
Credits: 3  
AASHTO LRFD Bridge Design Specifications using SI units. Design objectives, loads, load case analysis and selection, load distributions, static analysis, and design for axial loads, flexure, and shear. Design of slender columns, composite beams, and plate girders. Prereq: senior-level structural design course or permission.  
Equivalent(s): CIE 892  
Grade Mode: Letter Grading  

CEE 895 - Independent Study  
Credits: 1-4  
A limited number of qualified graduate students will be permitted to pursue independent studies under faculty guidance. May be repeated.  
Equivalent(s): CIE 895  
Grade Mode: Letter Grading  

CEE 896 - Special Topics  
Credits: 1-4  
Advanced or specialized topics not normally covered in regular course offerings. May be repeated, but not in duplicate areas. Prereq: permission. Special Fee.  
Equivalent(s): CIE 896  
Grade Mode: Letter Grading  

CEE 897 - Masters Student Seminar  
Credits: 1  
Topics of interest to graduate students and staff; reports of research ideas, progress, and results; lectures by outside speakers. Requires one presentation from students on their research, self-assessment, and a minimum attendance level. Continuing course: instructor may assign IA grade (continuous grading) at the end of one semester. Course held simultaneously with 897/997.  
Equivalent(s): CIE 900  
Grade Mode: Graduate Credit/Fail grading
CEE 899 - Master's Project Paper
Credits: 3
Concluding project paper required of Master's level students who utilize the non-thesis option. Prereq: permission. CEE majors only.
Equivalent(s): CIE 888
Grade Mode: Letter Grading

CEE 899 - Master's Thesis
Credits: 1-6
May be repeated up to maximum of 6 credits. Cr/F.
Repeat Rule: May be repeated for a maximum of 6 credits.
Equivalent(s): CIE 899
Grade Mode: Graduate Credit/Fail grading

CEE 907 - Systems Analysis of the Environment
Credits: 3
This course teaches knowledge and hands-on skills in system dynamics modeling, which is one of the most commonly used tools in analyzing the mechanisms, tradeoffs, and feedbacks in environmental, social, and economic procedures and systems. Students will also be trained with the ability of systems thinking during this course. Class time is primarily devoted to a combination of lectures and computer labs.
Grade Mode: Letter Grading

CEE #934 - Advanced Bioenvironmental Engineering Design
Credits: 4
Theoretical and experimental examination of the fundamental parameters used in selection, design, and operation of biological treatment processes for waters, wastewaters, and hazardous wastes. Topics include design and evaluation of aerobic and anaerobic processes, suspended and fixed-film processes, and advanced biological water and wastewater treatment processes. Prereq: environmental engineering microbiology course, or permission.
Equivalent(s): CIE 946
Grade Mode: Letter Grading

CEE 936 - Advanced Asphalt Materials
Credits: 3
Examination of chemical composition of asphalt cements, current technologies for modification, and inclusion of recycled materials to meet desired physical properties. Advanced characterization of asphalt materials, modeling, advanced mixture design tools. Prereq: CEE 836 or permission.
Equivalent(s): CIE 923
Grade Mode: Letter Grading

CEE 949 - Advanced Pavement Design and Analysis
Credits: 3
Advanced flexible pavement design and analysis including rehabilitation/overlay design. Includes development of mechanistic-empirical methods, advanced pavement structural analysis, and advanced material characterization. Prereq: CEE 849 or permission.
Equivalent(s): CEE 921
Grade Mode: Letter Grading

CEE 951 - Statistical Hydrology
Credits: 3
Course examines statistical methods used to address water resources planning and management problems involving uncertainty objectives and hydrologic inputs. Application of statistics and probability to uncertainty in the description, measurement, and analysis of hydrologic variables and processes, including extreme events, error models, simulation, and sampling. Prereq: A hydrology course, basic statistics, or permission.
Equivalent(s): CIE 951
Grade Mode: Letter Grading

CEE 954 - Advanced Groundwater Topics
Credits: 3
Review of Darcy's Law for confined and unconfined aquifers, linearization techniques, drawdown computations under varying boundary conditions, solutions to the inverse problem, drainage theory, recharge theory, two-phase flow, succession of steady states modeling, and borehole geophysics. Prereq: ESCI 810.
Equivalent(s): CIE 945
Grade Mode: Letter Grading

CEE #955 - Advanced Surface Water Hydrology
Credits: 3
Occurrence and distribution of water by natural processes including atmospheric thermodynamics, precipitation, runoff, infiltration, water losses, flood routing and catchment characteristics, analysis, and methods of runoff prediction. This course builds from a foundation of fluid mechanics in the environment to address essentials of modern hydrology. An emphasis is placed on fundamental concepts, first principles, and the scientific basis of approximations. Prereq: Calculus and Fluid Mechanics.
Equivalent(s): CIE 955
Grade Mode: Letter Grading

CEE 959 - Advanced Stream Restoration Topics
Credits: 3
Course focuses on: stream crossing analysis and design, dam removal, and designs for aquatic species passage. Pre- or Coreq: CEE 759 or equivalent.
Equivalent(s): CIE 959
Grade Mode: Letter Grading

CEE #965 - Advanced Soil Mechanics
Credits: 4
Numerical and physical modeling of the mechanical behavior of soils. Cam-clay and other predictive models. Laboratory studies of mechanical behavior and measurement of input parameters to soil models. Prediction of soil behavior based on laboratory results. Applications to numerical modeling of soil masses. Prereq: soil mechanics, and foundation design, or permission.
Equivalent(s): CIE 960
Grade Mode: Letter Grading

CEE 966 - Geotechnical Modeling
Credits: 4
Introduction to geotechnical modeling, soil constitutive modeling, introduction to numerical modeling and applications, physical modeling, centrifuge modeling, and theoretical modeling. Prereq: CEE 665, CEE 778, or equivalent, or permission.
Equivalent(s): CIE 962
Grade Mode: Letter Grading

CEE 967 - In Situ Geotechnical Testing
Credits: 3
In situ geotechnical testing methods for site characterization; theory and practice. Geotechnical testing methods include the piezocone, the pressuremeter, the flat plate dilatometer, the field vane, and the standard penetration test. Includes sampling techniques, geophysical exploration, and recent innovations in site and soil characterization. Prereq: CEE #965 or equivalent.
Equivalent(s): CIE 967
Grade Mode: Letter Grading
CEE 968 - Soil-Structure-Interaction
Credits: 3
Introduction to soil-structure-interaction, elastic and plastic analyses, serviceability calculations, relative foundation stiffness, Pile-soil-interaction, flexible retaining walls, tunnel lining, bridge abutments, dynamic soil-structure-interaction, case studies, and modeling techniques. Prereq: CEE 665 and 778; or permission.
Equivalent(s): CIE 963
Grade Mode: Letter Grading

CEE #980 - Nonlinear Structural Analysis
Credits: 3
This course deals with the theory, implementation, and application of methods of geometric and material nonlinear analysis. Geometric nonlinear analysis entails solving for equilibrium on the deformed configuration on the structure. Material nonlinear analysis involves inelastic behavior of materials. Practical design implications include problems of structural stability and inelastic static/dynamic analysis. Emphasis is on methods applied to frame structures comprised of line-type elements; however, the basic concepts also apply to general finite element methods. Prereq: CEE 780/CEE 880 or equivalent.
Equivalent(s): CIE 935
Grade Mode: Letter Grading

CEE 993 - Advanced Structural Steel Design
Credits: 3
Advanced design of structural steel elements according to the AISC Load and Resistance Factor Method as applied to advanced topics in steel design. Emphasis will be placed on theory involved in the development of the design code requirements. Course design project will expand on these topics and include experimental work as appropriate. Prereq: CEE 793/CEE 893 or permission.
Equivalent(s): CIE 993
Grade Mode: Letter Grading

CEE 995 - Problems
Credits: 2-4
The study and investigation of problems selected to meet the needs of the students.
Equivalent(s): CIE 995
Grade Mode: Letter Grading

CEE 997 - Doctoral Student Seminar
Credits: 1
Topics of interest to graduate students and staff; reports of research ideas, progress, and results; lectures by outside speakers. Requires one presentation from students on their research, self-assessment, and a minimum attendance level. Continuing course: instructor may assign IA grade (continuous grading) at the end of one semester. Course help simultaneously with 897/997.
Equivalent(s): CIE 901
Grade Mode: Graduate Credit/Fail grading

CEE 999 - Doctoral Research
Credits: 0
Cr/F.
Equivalent(s): CIE 999
Grade Mode: Graduate Credit/Fail grading