

Supplemental Course Descriptions for Fall-2012

Updated August 8, 2012

ANFS - Animal and Food Sciences

ANFS 467-15 ANIMAL HISTOLOGY: MICROSCOPIC STRUCTURE AND FUNCTION OF ANIMAL TISSUES AND ORGANS

Explores the light and electron microscopic structure of tissues, organs, and their component cells. Emphasize tissue and organ architecture, correlating structure to biologic function. Laboratories focus on learning light microscopic techniques and tissue identification. Prereq: BISC 208; Coreq: ANFS 140.

ANFS 667-15 ANIMAL HISTOLOGY: MICROSCOPIC STRUCTURE AND FUNCTION OF ANIMAL TISSUES AND ORGANS

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ANTH - Anthropology

ANTH 367-10 FOOD, CULTURE AND POWER

Using cross-cultural and historical examples, explores the social and cultural meanings of food, paying particular attention to the roles food and foodways play in the expression, production and reproduction of inequalities.

ANTH 390-80 CULTURES AND IDENTITIES IN AFRO-LATIN AMERICA AND THE CARIBBEAN

Explores the African diaspora in South America, with a fundamental emphasis on the cultural and historical consequences of slavery in the region. Places particular attention to Afro-American and the Caribbean. Includes Afro-Latin American economic, cultural, religious, and social experiences.

ANTH 390-81 LIFE IN TRIBES

Explores the historical development and contemporary applications of tribal concepts in anthropology and the consequences for anthropological understandings of human behavior and history. Examines the consequences of anthropology's ideas about the tribe for other social science fields.

ARTH - Art History

ARTH 198-10 BUILDING THE WESTERN WORLD

Surveys patterns of architecture and settlement from antiquity to last Friday. Lectures link monuments from major traditions with a series of themes to make the past relevant to today.

ARTH 415-10,80 THE AGE OF BERNINI

Bernini's sculpture and architecture in the context of papal patronage, religious reform, stylistic polemics and art theory. Topics include: fountains, caricature, theater, techniques, portraiture, chapel design, and baroque poetics.

ARTH 421-10 LATE CLASSICISM AND THE MEDITERRANEAN 1850-1914

Employing a post-colonial theoretical framework, explores the resurgence and significance of a late form of Classicism in the arts of England, France and Germany, and responses to it generated within the "classical nations" bordering the Mediterranean, Italy and Greece.

ARTH 423-10 MODERN PORTRAITURE: EUROPE AND THE U.S., 1860-1930

Modern portraiture in Europe and the U.S., ca. 1860-1930, in the context of changing ideas of identity, individuality, subjectivity, and the self; shifting mediums; and recent literature and theory.

ARTH 429-10 THE CITY

Introduces students to the range of issues and approaches relevant to urban studies and provides skills to evaluate the way that forms of representation embody and convey knowledge about cities.

ARTH 620-10 PROBLEMS IN PRE-DAGAMIAN ART

Centered on the Yoruba art of Ife, explores key controversies and problems writing the art history of West and Central Africa before the 15th century contact with Europeans. Evaluates recent attempts to resolve these difficulties.

ARTH 621-10 LATE CLASSICISM AND THE MEDITERRANEAN 1850-1914

Employing a post-colonial theoretical framework, explores the resurgence and significance of a late form of Classicism in the arts of England, France and Germany, and responses to it generated within the "classical nations" bordering the Mediterranean, Italy and Greece.

ARTH 626-10 MODERN PORTRAITURE: EUROPE AND THE U.S., 1860-1930

Modern portraiture in Europe and the U.S., ca. 1860-1930, in the context of changing ideas of identity, individuality, subjectivity, and the self; shifting mediums; and recent literature and theory.

ARTH 635-10 SCULPTURE IN THE UNITED STATES

The history and historiography of U.S. sculpture from colonial settlement through contemporary art. Hands-on study of sculptural materials, techniques, and practices; critical study of sculpture and memory, embodiment, space, iconoclasm and knowledge.

BHAN - Behavioral Health & Nutrition**BHAN 120-30 FLY FISHING**

An introduction to the fundamentals of fly fishing. Including: equipment selection, knot tying, fly selection, fly types, fishing techniques, an intro into stream ecology and protection, safety, where to fish, and certainly how to cast.

BHAN 120-32 ZUMBA

Easy, exhilarating way to get into shape as you dance to Latin rhythms. Your energy level will soar as you get into shape.

BHAN 120-46,47 GOLF

Fundamentals of golf, including full swing and short game, course management, shot selection, etiquette, rules, mental golf and golf specific fitness.

BHAN 267-10 FITNESS INSTRUCTOR TRAINING

Develop fitness programs. Includes anatomy, physiology, and kinesiology, safety and professional responsibility. Prepares for teaching group fitness classes and sitting for many national exams.

BHAN 267-11 ADVENTURE CHALLENGE EXPERIENCE

Introduction to cooperative and communication games and activities. Experience on university high level challenge course and team elements.

BHAN 267-12 TEAM BUILDING FACILITATION

Utilize knowledge of challenge learning activities and gain competencies for assisting in facilitating groups in Universality sponsored programs.

BINF - Bioinformatics**BINF 667-11 COMPUTATIONAL SYSTEM BIOLOGY**

Computational/mathematical techniques for modeling & analysis of biological systems. Includes properties of gene-regulatory & signaling networks; network reconstruction from data; stochastic modeling to study cellular variation & physiological modeling.

BMEG - Biomedical Engineering**BMEG 467-10 SYSTEMS PHYSIOLOGY I**

Human physiology from a quantitative viewpoint. Anatomy and pathology, where appropriate. Functional/structural aspects of mammalian nervous and musculoskeletal systems. Neural biophysics. Prereq: BISC 207, BISC 208, PHYS 207

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BUAD - Business Administration**BUAD 667-51 INTERACTIVE HOSPITALITY SERVICES MARKETING**

Provides an understanding of hospitality service delivery, the marketing system and its concepts in both interpersonal and electronic contexts. Prereq: HRIM 601

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CHEG – Chemical Engineering**CHEG 667-13 ENVIRONMENT & ENERGY**

Identifies, defines and quantifies the causes and consequences arising from the major environmental issues likely to be encountered in industry, and then responds to them, proactively, in a combined public, regulatory, and business environment.

CHEG 667-15 STRUCTURE OF MATERIAL

Introduces students to basic principles of structural analysis of crystalline materials. Includes the basics of symmetry and crystallography. Discusses more complex examples such as micro and mesoporous materials, nanomaterials, defective systems, and quasicrystals.

CHEG 867-14 BIOMOLECULAR ENGINEERING & APPLIED BIOPHYSICS

Introduces fundamentals of protein biophysics, structure, and interactions and then uses those fundamentals in illustrative engineering problems. Examples include optimization of protein stability in solution, protein phase behavior, protein adsorption to interfaces, and protein self-assembly.

CHEM - Chemistry & Biochemistry**CHEM 667-13 HETEROGENEOUS ATMOSPHERIC CHEMISTRY**

Concepts in heterogeneous chemistry using thermodynamics, kinetics, and photochemistry to study atmospheric gases and their interaction with condensed phases in the atmosphere, including liquid aerosol droplets and solid surfaces.

CHEM 874-10 STRUCTURE AND PROPERTIES OF SURFACES

Covers structure and chemical properties of solid surfaces. Includes lectures and laboratory work. Lectures will be followed by practical applications of surface analytical techniques and computational experiments. Requires general knowledge of physical chemistry concepts.

CHIN - Chinese**CHIN 267-10,80 ART OF CHINESE CALLIGRAPHY**

Introduces the rich art of Chinese calligraphy. Includes the evolution of Chinese characters, Chinese philosophy, seal carving and painting. Uses brush pen to practice Chinese calligraphy and the basics of painting.

CIEG - Civil & Environmental Engineer**CIEG 367-10 ENVIRONMENTAL ENGINEERING THERMODYNAMICS**

Introduces the laws of thermodynamics, the concepts of enthalpy, entropy, and free energy, thermodynamic cycles, and energy conversion and balance. Discusses examples of equilibrium partition in environmental systems. Reviews basic kinetic theories.

CIEG 467-10 ADVANCED CONCRETE DESIGN

Design of continuous beams and slabs; design of doubly reinforced beams; calculation of immediate and long-term deflection; design for torsion; design of walls, footings, and combined footings; slender column design; and reinforcement details.

CIEG 467-13 PUBLIC HEALTH & BIOSUSTAINABILITY

The role of biological phenomena and tools in defining and attaining sustainability; biochemical cycles and effects on biodiversity and ecosystem health; bioremediation and biodegradation of wastes; sustainable agriculture and sanitation. Public engineering in developed and undeveloped countries.

CIEG 467-14 TRAFFIC ENGINEERING & MODELING

Applying key traffic flow concepts to traffic engineering analyses utilizing industry-standard software. Focus on the skills needed to plan, execute, and document traffic studies, and the application of concepts to improve the accuracy of the traffic modeling software.

CIEG 467-16 INTRODUCTION TO RAILROAD ENGINEERING

Introduction to track structure, major components, functions, modes of degradation and failure, theoretical and practical approaches to design, optimization, maintenance of key track components, engineering track structure failure, heavy axle load freight, high speed passenger and transit rail.

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CIEG 667-11 MANAGING ENGINEERING PROJECTS

Gain an understanding of the principles of planning, controlling, and evaluating engineering projects. Learn the use of tools and techniques and practice their use on a personal project. Includes project organization, budgeting, and scheduling.

CIEG 667-12 PAVEMENT ANALYSIS & DESIGN

Principles of pavement design as applied to airfields and highway pavements, considering loading conditions, stress distribution, and properties of various components of pavements layers. Understanding the Mechanistic Pavement and AASHTO, PCA , Asphalt Institute, and FAA airfield design guide.

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CIEG 667-15 STRUCTURAL DESIGN FOR EXTREME EVENTS

Reviews current design methods and philosophies for mitigating the effects of extreme events. Emphasis is placed on the specific extreme events of chemical blast and progressive collapse.

CIEG 667-16 INTRODUCTION TO RAILROAD ENGINEERING

Introduction to track structure, major components, functions, modes of degradation and failure, theoretical and practical approaches to design, optimization, maintenance of key track components, engineering track structure failure, heavy axle load freight, high speed passenger and transit rail.

CISC – Computer Science

CISC 367-10 SECURE SOFTWARE DESIGN

Seminar-style course covering one specific discipline of information security, application security.

This discipline (APPSEC) refers to the development of software that can continue to function correctly even under constant scrutiny and attack by determined adversaries.

CISC 829-10 ADVANCED COMPUTER GRAPHICS

Provides a broad overview of the theory, algorithm, and implementation of state-of-the-art rendering techniques. Covers a number of classical algorithms, including advanced ray tracing, radiosity, monte carlo techniques, physical-based reflection/refraction, photon ma

CISC 829-11 MOBILE ROBOT PROGRAMING

A hands-on approach to implementing mobile robot algorithms in simulation and on a group of small wheeled robots. Includes low- level motor control and reactive obstacle avoidance; high-level control including navigation, localization, and planning; vision-based sensing for tracking a

CISC 889-12 MODELING & SIMULATION OF BIOINFORMATICS SYSTEMS

Concepts, techniques, and tools for modeling and simulation of biological systems. Gene regulation, signal transduction, and metabolism. Bayesian networks. Monte Carlo and gibbs sampling.

COMM - Communication

COMM 200-10 ENVIRONMENTAL COMMUNICATION

Explores environmental communication content, techniques, and effectiveness. Analyzes persuasive messages from various entities for an increased awareness of environmental issues and methods to analyze marketing messages and techniques to communicate through mass and social media.

COMM 343-10 PERSONALITY AND INTERACTION

Explores how personality is linked to communication styles. Examines a number of concepts and measures of personality in order to understand your own personality profile and also problematic relationships in an effort to develop healthy communication skills for dealing with difficult people.

COMM 418-50 ATTENTION, EMOTION & THE MEDIA

This course exposes students to concepts such as attention, emotion, attitude, and memory. Students will be exposed to research methods employed in cognitive psychology such as secondary task reaction time and continuous response measurement as well as psychophysiological measures.

COMM 442-10 SMALL GROUP COMMUNICATION

Studies theory and research relevant to various aspects of small group decision making; and the functions communication performs during the discussion. Includes practicing group skills and using recordings to analyze small group communication.

COMM 618-50 ATTENTION, EMOTION & THE MEDIA

Exposes concepts such as attention, emotion, attitude, and memory. Examines research methods employed in cognitive psychology such as secondary task reaction time and continuous response measurement as well as psychophysiological measures.

COMM 667-10 HEALTH COMMUNICATION

Examines theories and methods for studying relationships between media and health, such as media portrayals of health issues; public engagements with health information and technologies; and the role of media in health promotion.

COMM 667-11 ROAD TO THE PRESIDENCY

Focuses on the U.S. presidential election. Explores the nation's highest political theater; moving down the road to the presidency.

CPEG - Computer Engineering

CPEG 467-10 RELIABLE COMPUTING & SYSTEM DESIGN APPROACH

Introduction to reliability challenges in future computer systems, including permanent, transient, intermittent faults, as well as temperature induced reliability issues. Studies various types of redundancy strategies. Examines hardware/software approaches for reliability enhancement.

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ELEG - Electrical Engineering

ELEG 467-10 ELECTRICAL ENGINEERING WIND ENGINEERING

Covers Electrical Engineering principles in a short course for the non-engineer. Presents the principles of current, voltage, electric and magnetic fields, & passive circuit elements. Coverage includes motors, generators, electric power distribution, and transformers.

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Covers Electrical Engineering principles in a short course for the non-engineer. Presents the principles of current, voltage, electric and magnetic fields, & passive circuit elements. Coverage includes motors, generators, electric power distribution, and transformers.

ELEG 667-11 COMPUTATIONAL SYSTEM BIOLOGY

Computational/mathematical techniques for modeling & analysis of biological systems. Includes properties of gene-regulatory & signaling networks; network reconstruction from data; stochastic modeling to study cellular variation & physiological modeling.

ELEG 667-14 ELECTRICAL VEHICLES, THE GRID, & RENEWABLE ENERGY

Covers design of electric vehicles, policies regarding implementation and charging, electric vehicles from a consumer perspective, design and policies for implementing charging infrastructure, and interaction of electric vehicles with the national electric power system.

ELEG 867-10 ADVANCED TOPICS IN COMMUNICATIONS

Covers advanced topics in source coding, channel coding, and joint source-channel coding for point-to-point and multi-point communications. Theoretical overview, focusing on the study and implementation of practical coding schemes.

FINC - Finance

FINC 467-10 EMPIRICAL FINANCIAL ANALYSIS

Introduces statistical techniques applied to financial data. Financial data analyzed may include time-series return data, cross-sectional data of firm characteristics, panel data, qualitative data, and transformed data. Students employ various statistical packages including Stata and/or SAS. Prereq: FINC 314

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FINC 867-50 TRADING AND FINANCIAL MARKET STRUCTURE

Understanding of how financial markets operate and what traders do in them. Introduces the theory and practice of financial trading on exchanges, in upstairs dealer networks, and via alternative trading systems.

FLLT - Foreign Language & Literatures

FLLT 330-10 SOCIETY & SPECTACLE IN ANCIENT GREECE & ROME

Spectacles and daily life in classical antiquity: topics range from bull leaping contests on Crete to the Parthenon and to the sanctuaries at Delphi, Eleusis, and Olympia as well as from Roman villas, Etruscan graveyards, and the architectural propaganda of the Caesars, to gladiatorial contests.

FLLT 467-10,80 CHINESE CULTURE

Introduces the development and significance of social and cultural practices and imaginations that produce and shape Chinese communities and identities. Our approach is broadly interdisciplinary, roughly chronological, and ultimately self-reflective.

GRMN - German

GRMN 467-10 ADV GRAMMAR & COMPOSITION

An opportunity to develop an accurate active and imaginative use of the German language by providing ample chance to practice advanced grammar structures in meaningful, communicative contexts. Grammar points are chosen based on analysis of literary texts.

HIST - History

HIST 167-10 INTRODUCTION TO INDIAN CIVILIZATION

Introduces students to the major economic, social, and cultural developments that have shaped the rise of civilization within the Indian subcontinent, from c. 2500 B.C.E. to 1700 C.E.

HIST 336-10 TOPICS IN LATIN AMERICAN HISTORY: BRAZIL

Focuses on the social and political history of Brazil over five hundred years, from first indigenous contact with Europeans through independence, formation of the Republic, modernization and contemporary issues facing the country.

HIST 337-11 TOPICS IN AMERICAN HISTORY: ENVIRONMENTAL HISTORY

Explores the environmental history of the United States since the 1500s.

HIST 337-12 TOPICS IN AMERICAN HISTORY: AMERICAN ASSASSINS

Examines the traumatic events and the people and circumstances surrounding the assassinations of leading political and social figures such as Abraham Lincoln and John Lennon.

HIST 367-10 HISTORY OF POLITICAL COMMUNICATION IN THE WEST, 1640-1940

Surveys the formal and informal modes of communication that shaped public life and the social order in Europe, Britain, and North America, from the English Civil War to the First World War.

HLPR - Health Promotion**HLPR 667-50 APPLIED DATA ANALYSIS**

Overview of descriptive and inferential statistics needed to interpret and apply health related data to analyze and evaluate health-related literature and research in the core disciplines of public health including: social and behavioral science, health management and policy, and environmental health.

HRIM - Hotel, Restaurant & Institutional Management**HRIM 602-51 INTERACTIVE HOSPITALITY SERVICES MARKETING**

Provides an understanding of hospitality service delivery, the marketing system and its concepts in both interpersonal and electronic contexts. Prereq: HRIM 601

JWST - Jewish Studies**JWST 167-10 INTRODUCTION TO JUDAISM**

Introduces different ways Judaism can be explored and appreciated: the intellectual history of its values and thinkers, the way it is lived as a modern religious faith tradition with ancient biblical roots, and through the prism of different cultural arts, and including Jewish atheistic and humanistic expressions.

JWST 267-10 SHOW BIZ; A JEWISH PERSPECTIVE

Examines the development of an extraordinary creative and commercial phenomenon during the early decades of the 20th century, resulting from the rapid growth of the Jewish population in America. They brought with them a rich and diverse tapestry of dramatic and theatrical modes.

LING - Linguistics & Cognitive Science**LING 267-10 SCIENCE OF LANGUAGE: RULES AND REPRESENTATIONS**

An intensive introduction to formal linguistic theories, focusing on sound organization, word formation and sentence structure. Analytical and scientific examination of empirical data from diverse languages.
Prereq: LING 101

MAST - Marine Studies

MAST 467-13 MARINE IMAGERY ANALYSIS

Case study overview of acquisition, analysis & interpretation of photo and video imagery in marine science with emphasis on image enhancement, feature detection, data extraction and statis analysis. Workshop format allows students to apply course material to their own research data and prepare results for presentation.

MAST 667-12 INTERNATIONAL AND NATIONAL OCEAN POLICY

Combination of two previously separate courses: MAST 670, U.S. Ocean and Coastal Policy, and MAST 677 International Ocean and Environmental Policy, with the intent of creating a new combined required course for all Marine Policy graduate students.

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MAST 667-14 ELECTRICAL VEHICLES, THE GRID, & RENEWABLE ENERGY

Covers design of electric vehicles, policies regarding implementation and charging, electric vehicles from a consumer perspective, design and policies for implementing charging infrastructure, and interaction of electric vehicles with the national electric power system.

MEDT - Medical Technology

MEDT 367-10 INTRODUCTION TO NANOMEDICINE

Introduction to the interdisciplinary field of nanomedicine for students with physical, chemical or biological sciences background. Emphasis on emerging nanotechnologies and biomedical applications including nanomaterials, nanoengineering, nanotechnology-based drug delivery systems, nano-particle-based imaging, nanodiagnostic systems, nanotoxicology, and translating nanomedicines into clinical research.

MEEG - Mechanical Engineering

MEEG 467-12 SENIOR DESIGN - FSAE

Students work in groups to design, analyze, manufacture and test parts and subassemblies for use on a Formula SAE car to be used in the annual international competition held in California. Prereq: MEEG 304

NTDT - Nutrition & Dietetics

NTDT 367-10 NUTRITION AND EARLY CHILDHOOD

Nutrient requirements and feeding principles of infants and young children; emphasis on early life nutrition and its role in healthy growth, diet, obesity prevention, and other health outcomes; review of current guidelines and recommendations. Prereq: NTDT 200

NTDT 467-10 NUTRITION PEER MENTORING

Focus on developing skills in academic advising/mentoring for peers. Experiences under supervision of nutrition faculty.

POSC - Political Science & International Relations**POSC 447-10,80 ROAD TO THE PRESIDENCY**

Focuses on the U.S. presidential election. Explores the nation's highest political theater; moving down the road to the presidency.

POSC 467-10 WHAT THE FRACK IS GOING ON? SHALE GAS: POLITICS & POLICY

Examines environmental and other issues surrounding Marcellus Shale development. Studies existing and proposed financial, environmental and safety regulations. Considers what the case of Marcellus Shale development demonstrates about energy development and use in the US and policy making in our federal system of government.

PSYC - Psychology**PSYC 467-10 APPLIED BEHAVIORAL ANALYSIS**

Explores the use of both operant and respondent conditioning techniques to bring about improvement in human behavior. Details the implementation and assessment of treatment programs as well as the importance of direct observation and measurement of behavior. Focus is on practical applications.

PSYC 667-10 VISUAL COGNITION

Covers attention, executive control, and conscious awareness. Includes the control of attention, the relation between attention and awareness, the effect of training on attention, the role of attention in memory, and neuroimaging studies of attentional function.

SOCI - Sociology**SOCI 367-10 GENDER AND HEALTH**

Critically examines the relationship between gender and health. Considers the contribution of race, class and sexuality in shaping that relationship.

SPAN - Foreign Language & Literatures**SPAN 267-70 VARIETIES OF SPANISH**

Acquaint the students with the peculiarities of the different dialects, sociolects and registers which constitute the Spanish language, as much from a historical as well as a present-day perspective.

SPAN 367-70 SPEAKING AND WRITING SKILLS 5&6

Fundamental linguistic support in difficult areas the student may have at this level. Enables the student to understand and express him/herself in a variety of unfamiliar situations, and which require exchanging informational and personal opinions using complex linguistic structures.

SPAN 367-74 VARIETIES OF SPANISH LANG.

Acquaints the students with the peculiarities of the different dialects, sociolects and registers which constitute the Spanish language, as much from a historical as well as a present-day perspective.

SPAN 467-70 ENGLISH-SPANISH TRANSLATION. I

Deals with the new approaches to language learning that view the activities of translation and interpreting as a tool for the development of communicative ability and mediation skills.

SPAN 467-74 SPEAKING & WRITING SKILLS 7&8

Fundamental linguistic support enables students to understand and express him/herself in a variety of unfamiliar situations, which require exchanging informational and personal opinions using complex linguistic structures.

SPAN 467-75 SPANISH GRAMMAR

Includes the main points of those remaining difficulties which a student may encounter in the latter part of an advanced learning phase and the best way to solve them, within a pragmatic tone.

THE - Theatre**THEA 267-10 SHOW BIZ; A JEWISH PERSPECTIVE**

Examines the development of an extraordinary creative and commercial phenomenon during the early decades of the 20th century, resulting from the rapid growth of the Jewish population in America. They brought with them a rich and diverse tapestry of dramatic and theatrical modes.
