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Courses

# ACCT - Accounting

ACCT 201 - Principles of Accounting I: Financial (3)

The identification, measurement, and reporting of the financial effects of economic events on enterprises are examined. Lecture and laboratory. 4 contact hours.

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring, Summer.

ACCT 202 - Principles of Accounting II: Managerial (3)

A continuation of ACCT 201, topics include accounting for corporations, liabilities, cash flow statements, cost accounting in a manufacturing environment, budgeting, and profit analysis for decision making. Lecture and laboratory. 4 contact hours.

Prerequisite: ACCT 201.

Offered: Fall, Spring, Summer.

ACCT 310 - Accounting Systems and Concepts (3)

Accounting systems are introduced, with emphasis on the accounting cycle through the preparation of statements. Students work with general ledger software and spreadsheet applications. Lecture and laboratory. 4 contact hours.

Prerequisite: Completion of at least 60 college credits, ACCT 201 and CIS 251 or CIS 252.

Offered: Fall, Spring.

ACCT 311W - External Reporting I (3)

Accounting concepts, standards, principles, and practices in financial reporting for business entities are studied. Topics include assets, liabilities, and stockholder equity. . This is a Writing in the Discipline (WID) course. Lecture and laboratory. 4 contact hours.

Prerequisite: Completion of at least 60 college credits and ACCT 310, with a minimum grade of C.

Offered: Fall, Spring.

ACCT 312W - External Reporting II (3)

A continuation of ACCT 311W, topics include revenue recognition, pensions, accounting for income taxes, leases, cash flow statements, and financial analysis. This is a Writing in the Discipline (WID) course. Lecture and laboratory. 4 contact hours.

Prerequisite: Completion of at least 60 college credits, ACCT 310 (with a minimum grade of C) and ACCT 311W.

Offered: Fall, Spring.

ACCT 321 - Cost Management I (3)

Focus is on internal accounting information and decision support systems that provide data and reports for product costing and management decision making. Lecture and laboratory. 4 contact hours.

Prerequisite: Junior standing, ACCT 202 and ACCT 310, with a minimum grade of C.

Offered: Fall, Spring, Summer (as needed).

ACCT 331 - Federal Income Taxation (3)

Federal income tax law is introduced, with emphasis on individuals. 4 contact hours.

Prerequisite: Completion of at least 60 college credits and ACCT 201 or consent of department chair.

Offered: Fall, Spring.

ACCT 351 - Fraud Examination (3)

Prospective managers and auditors study the extent and significance of fraudulent activity, gaining understanding of the methods and techniques for prevention and detection.

Prerequisite: Completion of at least 60 college credits and ACCT 201.

Offered: Fall.

ACCT 353 - Accounting for Governmental and Not-for-Profit Organizations (3)

A conceptual foundation is provided for understanding the accounting and financial reporting of governmental and not-for-profit organizations.

Prerequisite: Completion of at least 60 college credits and ACCT 202.

Offered: Spring.

ACCT 422 - Cost Management II (3)

The use of internal accounting data and reporting in the management decision-making process is examined. Lecture and laboratory. 4 contact hours.

Prerequisite: ACCT 321.

Offered: Spring.

ACCT 432 - Advanced Studies in Taxation (3)

The coverage of choice of an entity and the uses of the life-cycle approach to study these entities are expanded upon. Lecture and laboratory. 4 contact hours.

Prerequisite: ACCT 331.

Offered: Fall.

ACCT 441 - Auditing (3)

Current audit theory and practice are surveyed. A cycle approach is used to demonstrate audit procedures. Topics may include legal liability, ethical standards, audit planning and reporting, and audit risk.

Prerequisite: ACCT 310 (with a minimum grade of C), ACCT 311 or ACCT 311W; CIS 252.

Offered: Fall, Spring.

ACCT 443 - Business Law (3)

Fundamental principles of the law of contracts, sales, property, commercial paper, and bankruptcy are examined. Forms of business organizations, regulations, and accountants' liability are also covered.

Prerequisite: ACCT 201 and completion of at least 60 college credits.

Offered: Fall, Spring.

ACCT 451 - Advanced Financial Accounting (3)

Emphasis is on business consolidations and the external reporting of consolidated financial information in the published financial statements of large publicly owned corporations. 4 contact hours.

Prerequisite: ACCT 311 or ACCT 311W and ACCT 312 or ACCT 312W.

Offered: Fall, Spring.

ACCT 461W - Seminar in Accounting Theory and Practice (3)

The development of accounting theory, major influences on accounting theory, and the application of accounting theory in the resolution of reporting issues are explored.

Prerequisite: ACCT 312 or ACCT 312W, ACCT 321, ACCT 331; FIN 301.

Offered: Fall, Spring.

ACCT 467 - Directed Internship (4)

Students are assigned to a business, an industrial organization, or a not-for-profit organization and supervised by a mentor. Students receive one credit hour for every four hours of work. A two-hour biweekly seminar is included. Graded S, U.

Prerequisite: Junior standing, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

ACCT 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ACCT 491 - Independent Study I (3)

This course emphasizes the development of research for students admitted to the accounting honors program. The research topic is selected and conducted under the mentorship of a faculty advisor.

Prerequisite: Admission to the accounting honors program and consent of instructor, department chair and dean.

Offered: As needed.

ACCT 492 - Independent Study II (3)

This course continues the development of research begun in ACCT 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: ACCT 491 and consent of instructor, department chair and dean.

Offered: As needed.

ACCT 510 - Advanced AIS: Systems Modeling (3)

Students model, analyze, and evaluate accounting information systems intended to support management control and decision making. Focus is on determining user requirements, communicating results, and effective decision support.

Prerequisite: Graduate status and consent of instructor.

Offered: Annually.

ACCT 533 - Fundamentals of Financial Planning (3)

Emphasis is on goal setting, cash budgeting, insurance needs, retirement planning, tax planning, and estate planning within the context of the client's goals.

Prerequisite: Graduate status and consent of instructor.

Offered: Fall.

ACCT 535 - Tax Issues for Corporations and Shareholders (3)

Tax implications related to stock ownership are reviewed in a variety of corporate environments. Focus is on dividend distribution policy, the rights and risks of stock ownership, and the use of stock ownership for financial planning purposes.

Prerequisite: Graduate status and ACCT 533 or consent of instructor.

Offered: As needed.

ACCT 537 - Legal and Tax Issues of Marriage, Separation, and Divorce (3)

Issues related to prenuptial planning, marriage breakdown, separation, and divorce are considered. Focus is on the state and federal tax aspects of separation, divorce, and child care.

Prerequisite: Graduate status and consent of instructor.

Offered: As needed.

ACCT 543 - Personal Income Tax Planning (3)

Students examine the role of state and federal tax regulations in creating a successful financial plan for the client. Emphasis is on developing strategies that minimize the tax burden on the client through proper planning.

Prerequisite: Graduate status and consent of instructor.

Offered: Spring.

ACCT 548 - Controllership (3)

Students examine the role of the chief accounting officer of an organization within the contemporary business environment. Also explored are the responsibilities and duties of the controller as strategic information officer.

Prerequisite: Graduate status and consent of instructor.

Offered: Annually.

ACCT 549 - Advanced Topics in Cost Management (3)

Emerging topics and techniques in cost management are discussed, along with the issues involved with implementation. Topics include activity-based costing, total quality management, the survival triplet, and just-in-time.

Prerequisite: Graduate status and consent of instructor.

Offered: Annually.

ACCT 554 - Estate Planning (3)

Students examine the role of state and federal tax codes when advising clients about the ultimate preservation of their estate. The client's legal, marital, and medical situation is incorporated into an action plan to achieve the goals of the client.

Prerequisite: Graduate status and consent of instructor.

Offered: Alternate years.

ACCT 555 - Retirement Planning and Employee Benefits (3)

This course explores the role of the financial planner in advising clients as to employee retirement plan selection, individual retirement planning concerns, and other retirement issues. Emphasis is on achieving an optimal retirement plan.

Prerequisite: Graduate status and ACCT 443 or consent of instructor.

Offered: As needed.

ACCT 556 - Advanced Governmental and Non-profit Accounting (3)

This course will provide students with a solid understanding of non-profit and government accounting. Students will learn how to understand general purpose financial statements of non-profit and government entities.

Offered: Annually.

ACCT 561 - Advanced Topics in Auditing and Fraud (3)

This course will provide students with an advanced understanding of auditing topics. Students will learn through case analysis, text book readings and related current world topics.

Prerequisite: ACCT 441 or consent of instructor.

Offered: Annually.

ACCT 572 - Advanced Topics in Financial Reporting (3)

This course will provide students will an advanced understanding of financial reporting topics. Students will learn about FASB standards and how they apply to upper management financial reporting decisions.

Prerequisite: Intermediate Accounting course work.

Offered: Annually.

ACCT 661 - Financial Planning Capstone Course (3)

This course integrates all previous personal financial planning courses on client advising and strategy. Students should take this course just prior to completion of the PFP program.

Prerequisite: Graduate status, consent of instructor and advanced standing in the program.

Offered: Spring.

ACCT 665 - Accounting Capstone (3)

In this course students will learn about current issues in auditing, financial accounting, regulations in accounting and the business environment in accounting. Case analysis, text book readings and related current world topics will be used in this course.

Prerequisite: ACCT 510, ACCT 556, ACCT 561, ACCT 572.

Offered: Annually.

# AFRI - Africana Studies

AFRI 162 - Non-Western Worlds (4)

Selected cultures and historical traditions in regions of contemporary and ancient Africa and its diaspora are studied. Students comment critically, in written and oral form, upon African experiences and ideas. Sections are titled: (1) Cape Verde and Western Africa and (2) African Social/Economic Development.

Offered: Fall, Spring.

AFRI 200 - Introduction to Africana Studies (4)

This is a transdisciplinary survey of key issues in the life and history of peoples of African descent and their interaction with other peoples and world cultures.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer (as needed).

AFRI 262 - Cultural Issues in Africana Studies (4)

A variable topics course in which students will take a critical and empowering look at various cultural topics (e.g. music, sport, and film) regarding people of African descent.

General Education Category: Connections

Prerequisite: Completion of FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring, Summer.

AFRI 320 - Hip-Hop: A Global Perspective (3)

Hip-hop's international reach and social significance are explored. Through case studies, students examine how hip-hop animates local cultural politics in an age of globalized media, migration, and transnationalism.

Prerequisite: AFRI 200 or consent of program director.

Offered: As needed.

AFRI 335 - Race and Cyberspace (3)

This course explores how race and ethnicity structures online behavior. Emphasis is on prejudice, racism, power, inequality, and social transformation.

Prerequisite: AFRI 200 and SOC 200 or SOC 208.

Offered: As needed.

AFRI 410 - Seminar in Comparative Race Relations (3)

The changing dynamics of race relations within a national and international framework are examined, including ideas about the causes and persistence of racism.

Prerequisite: AFRI 200 or consent of program director.

Offered: Spring.

AFRI 420 - Comparative Slave Systems (3)

This is an integrative experience in the comparative study of slave systems. Emphasis is on the study of slavery in Africa and the New World.

Prerequisite: AFRI 200 or consent of program director.

Offered: As needed.

AFRI 461W - Seminar in Africana Studies (4)

Africana concepts and theory are examined within a holistic framework. Students conduct research and complete a senior paper. This is a Writing in the Discipline (WID) course.

Prerequisite: AFRI 200, HIST 348 or HIST 349; 12 additional credit hours of Africana studies courses; and senior standing.

Offered: As needed.

AFRI 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, program director and dean.

Offered: As needed.

AFRI 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. Students who wish to pursue a creative writing project should submit a portfolio of work with their application.

Prerequisite: Consent of instructor, program director and dean, and admission to the Africana studies honors program.

Offered: As needed.

AFRI 492 - Independent Study II (3)

This course continues the development of research or activity begun in AFRI 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: AFRI 491 and consent of instructor, program director and dean.

Offered: As needed.

# ASL - American Sign Language

ASL 101 - Elementary American Sign Language I (4)

Elementary expressive/receptive American Sign Language skills are introduced. Focus is on questions, sentence structure and basic conversational ASL. Information about deaf culture/community is also shared. Language/cultural lab is required.

Offered: Fall, Spring.

ASL 102 - Elementary American Sign Language II (4)

Further development of elementary expressive/receptive American Sign Language skills is addressed.  Additional focus on conversational ASL and exploration of deaf culture/community are offered. Language/cultural lab is required.

Prerequisite: ASL 101 or equivalent.

Offered: Fall, Spring.

# ANTH - Anthropology

ANTH 101 - Introduction to Cultural Anthropology (4)

The concept of culture and its significance to an understanding of human societies are studied. Examples from a variety of societies are used to illustrate the basic approaches and concepts of cultural anthropology.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

ANTH 102 - Introduction to Archaeology (4)

The methods by which archaeologists study culture and reconstruct past societies are examined through lecture-discussion, films, and laboratory exercises.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

ANTH 103 - Introduction to Biological Anthropology (4)

The biocultural nature of human physical variation is examined through lecture-discussion, films, and laboratory exercises. Topics include modern variation, primatology, and paleo-
anthropology.

Offered: Spring.

ANTH 104 - Introduction to Linguistic Anthropology (4)

Students examine language use as a set of social and cultural practices, emphasizing relationships to identity, beliefs, and power dynamics. Additionally, they explore language structures and aspects of linguistic analysis.

General Education Category: Social and Behavioral Sciences.

Offered: Fall.

ANTH 118 - Anthropology (3)

Students will explore the evolution and biological variation of humans as well as the development and diversity of human culture.

Offered: As needed.

ANTH 162 - Non-Western Worlds (4)

Selected cultures and historical traditions that arose outside the Western experience are studied. Sections are titled: African Worlds, Amazonia, Ancient Nile, Borneo, Caribbean "Others," The Maya, Past and Future, Middle East, The Middle East: Women and Men in Non-Western Cultures, Native Americans in the Northeast.

General Education Category: Core 3.

Offered: Fall, Spring, Summer.

ANTH 233W - Methods in Anthropology (4)

Students are introduced to multiple qualitative and quantitative methods for data collection and analysis, and instruction on spoken and written communication, with emphasis on ethnographic and observed data. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least three of the following courses: ANTH 101, ANTH 102, ANTH 103, ANTH 104.

Offered: Spring.

ANTH 235 - Bones and Stones: How Archaeologists Know (4)

Students learn about scientific and mathematical tools used to investigate archeological questions like, how old are these bones, how were those tools used, and what did ancient people eat?.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any mathematics or natural science general education distribution.

Offered: Annually.

ANTH 237 - Measuring Inequality, Analyzing Injustice (4)

Students use a variety of anthropological methods to characterize the lived experiences of people. Students learn about these methods and how they can be analyzed to understand inequality and injustice.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any general education MATH distribution course.

Offered: Annually.

ANTH 261 - The Complexities of Global Health (4)

Students examine contemporary global health policies and interventions, the methods used across disciplines in the field of global health and their distinct histories and impacts in communities around the world.

General Education Category: Connections.

Prerequisite: Completion of FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

ANTH 262 - Indigenous Rights and the Global Environment (4)

Using a cross-cultural and interdisciplinary approach, students will examine and comment critically on human rights and global environmental issues as they intersect and impact indigenous peoples across the world.

General Education Category: Connections

Prerequisite: Completion of FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

ANTH 265 - Anthropological Perspectives on Childhood (4)

Using comparative evolutionary, historical, and cross-cultural approaches, students examine patterns of pregnancy, childbirth and child-rearing, child development, the role of children, and how children become members of their society.

General Education Category: Connections.

Prerequisite: Completion of FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

ANTH 266 - Anthropological and Indigenous Perspectives on Place (4)

Using a comparative historical and cross-cultural approach, students examine various indigenous peoples' ideas about place, and through critical inquiry learn to develop and express their own "sense of place."

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

ANTH 301 - Ethnobotany (4)

Ethnobotany focuses on intrinsic cultural knowledge of plants and their uses as foods, medicines, for tool-making and in ritual practice. Basic plant biology and enthnobotanical field methods are also discussed. Cannot get credit for ANTH 301 and ENST 301.

Prerequisite: ANTH 101, ANTH 102, ANTH 103, ANTH 104 or ENST 200.

Cross-Listed as: ENST 301.

Offered: Alternate years.

ANTH 304 - Human Paleontology (4)

Patterns in hominoid evolution, from primate beginnings to modern humans, are explored. Fossil records and artifacts are examined, with emphasis on anatomical and behavioral adaptations to changing environments.

Prerequisite: ANTH 103 or consent of department chair.

Offered: Alternate years.

ANTH 306 - Primate Ecology and Social Behavior (4)

Captive and field studies are examined to illustrate common features of nonhuman primates. Topics include biological and social adaptations, such as diet, communication, dominance hierarchies, social learning, and cognition.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Completion of any mathematics or natural science general education distribution.

Offered: Fall, Spring.

ANTH 307 - Human Nature: Evolution, Ecology, and Behavior (4)

The behavior and ecology of humans are explored within the framework of evolutionary theory, focusing on the selective pressures of cooperation, conflict, food, predators, disease, sociality, and reproduction.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Completion of any mathematics or natural science general education distribution.

Offered: Fall, Spring.

ANTH 309 - Medical Anthropology (4)

Anthropological approaches and results in the study of health and illness are surveyed as social, cultural, and biological phenomena.

Prerequisite: One of the following: ANTH 101, BIOL 112, HPE 233, HCA 201 or NURS 201, PSYC 230, or SOC 217; or consent of department chair.

Offered: Alternate years.

ANTH 310 - Language and Culture (4)

The interrelationships between language and other aspects of culture are examined as they illuminate anthropological issues and theories.

Prerequisite: Completion of at least 60 college credits and ANTH 104 or COMM 255, or consent of instructor.

Offered: Alternate years.

ANTH 311 - North American Archaeology (4)

North American history from the first peopling of the continent to modern times is examined, including migration patterns, subsistence, environmental and social change, technology and social life.

Prerequisite: ANTH 102 or consent of department chair.

Offered: Alternate years.

ANTH 312 - Archaeology of Mesopotamia and South Asia (4)

The archaeology of ancient Mesopotamia and South Asia is investigated. Topics include understanding the nature of civilizations; their emergence in these regions; and their culture, politics, economy and interaction with neighbors.

Prerequisite: ANTH 102 or consent of department chair.

Offered: Alternate years.

ANTH 329 - Queer And Trans Anthropology (4)

Exploring marginalized forms of gender or sexuality, such as trans or queer identity, along with race and class, reveal how difference is managed and regulated at global and local levels.

Prerequisite: Completion of at least 45 college credits and any General Education course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 330 - Language Endangerment and Linguistic Revitalization (4)

Students examine the value of linguistic diversity on a global scale, its importance for humanity, the causes and extent of language endangerment and possible solutions through language maintenance and revitalization.

Prerequisite: ANTH 104 or consent of department chair.

Offered: Alternate years.

ANTH 332 - Applied Anthropology (4)

Students explore the history, evolution, methods, objectives, and applications of the practical involvement of anthropology in understanding and solving human problems.

Prerequisite: ANTH 101 or consent of department chair.

Offered: Alternate years.

ANTH 333 - Comparative Law and Justice (4)

Systems of law and justice are examined in prestate and state societies to understand the operation of law and justice in cross-cultural contexts and in the United States. Students cannot receive credit for both SOC 333 and ANTH 333.

Prerequisite: Any 100- or 200-level course in a social science.

Offered: Fall, Spring.

ANTH 334 - Steamships and Cyberspace: Technology, Culture, Society (4)

The invention and evolution of a range of technologies, such as railroads and cell phones, are explored using current anthropological concepts and case studies from various cultures and time periods.

Prerequisite: Completion of at least 60 college credits and any Gen. Ed. course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 338 - Urban Anthropology (4)

Students learn about the origins and characteristics of urban life. Ancient, historic, and contemporary urban phenomena in local and global contexts are explored, using archaeological, historical, and ethnographic methods.

Prerequisite: ANTH 101 or ANTH 102 or consent of department chair.

Offered: Alternate years.

ANTH 343 - Environmental Anthropology (4)

Students are introduced to the field of environmental anthropology, focusing broadly on the interrelationships between environmental change and human conflict, culture and nature, and science and environmental policy.

Prerequisite: Completion of at least 45 college credits and any General Education course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 345 - Museums, Cultures, and Others (4)

Students learn about the history of museums and explore how they shape and reflect identities. Museum exhibits are analyzed from a variety of perspectives in order to understand their effectiveness.

Prerequisite: Completion of at least 60 college credits and any Gen. Ed. course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 347 - Environmental Justice (4)

The development of social movements and politics at the intersections of society, environment and justice, is explored, focusing primarily on historic and contemporary cases of environmental justice struggle.

Prerequisite: Completion of at least 45 college credits and any General Education course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 349 - Visual Anthropology (4)

Visual techniques for data collection, production and interpretation are explored within an anthropological framework. Students will learn how photography, film and other media can represent the self and other. Students cannot receive credit for both FILM 349 and ANTH 349.

Prerequisite: One of the following courses: ANTH 101, ANTH 102, ANTH 103, ANTH 104, FILM 219 or consent of instructor.

Offered: Alternate years.

ANTH 390 - Directed Study (1-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Completion of at least 60 college credits; completion of at least two of the following courses: ANTH 101, ANTH 102, ANTH 103, ANTH 104; and consent of instructor and department chair.

Offered: As needed.

ANTH 402 - Evolution of the Capacity for Culture (4)

The evolution of the biological and social capacities that made culture the central attribute of humans is examined. Topics include evolution of the human diet, tool making, social interaction, and language.

Prerequisite: Completion of at least one of the following: ANTH 304, ANTH 306, or BIOL 314; or consent of instructor.

Offered: Alternate years.

ANTH 460W - Capstone Seminar in Anthropology (4)

In this culminating experience for majors, students use anthropological methods to address original research questions by collecting, analyzing, and presenting anthropological data in a formal paper. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior standing and ANTH 101, ANTH 102, ANTH 103, ANTH 104, and ANTH 233 or ANTH 233W.

Offered: Fall.

ANTH 461 - LatinX in the United States (4)

Students examine recent scholarship on LatinX in the United States and undertake research projects that focus on LatinX issues. Students cannot receive credit for both ANTH 461 or FNED 461.

Prerequisite: Completion of at least 60 college credits and any course in a social or behavioral science, or consent of department chair.

Cross-Listed as: FNED 461.

Offered: Annually.

ANTH 470 - Reading Course in Anthropology (1-4)

Directed reading is given in an anthropological area of interest to the student and the instructor.

Prerequisite: Completion of at least 75 college credits and consent of advisor, department chair, and instructor with whom student plans to study.

Offered: As needed.

ANTH 481 - Anthropology Field School: Cultural Anthropology (4-8)

This is an introduction to the techniques and theory of anthropological fieldwork. Students engage in hands-on research. Students may conduct independent/collaborative research under the direction of an instructor.

Prerequisite: Completion of at least 75 college credits and consent of Instructor or department chair.

Offered: As needed.

ANTH 482 - Anthropology Field School: Archaeology (4-8)

This is an introduction to the techniques and theory of anthropological fieldwork. Students engage in hands-on research. Students may conduct independent/collaborative research under the direction of an instructor.

Prerequisite: Completion of at least 75 college credits and consent of Instructor or department chair.

Offered: As needed.

ANTH 483 - Anthropology Field School: Biological Anthropology (4-8)

This is an introduction to the techniques and theory of anthropological fieldwork. Students engage in hands-on research. Students may conduct independent/collaborative research under the direction of an instructor.

Prerequisite: Completion of at least 75 college credits and consent of Instructor or department chair.

Offered: As needed.

ANTH 484 - Anthropology Field School: Anthropological Linguistics (4-8)

This is an introduction to the techniques and theory of anthropological fieldwork. Students engage in hands-on research. Students may conduct independent/collaborative research under the direction of an instructor.

Prerequisite: Completion of at least 75 college credits and consent of Instructor or department chair.

Offered: As needed.

ANTH 490 - Independent Study in Anthropology (1-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. May be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Completion of at least 90 college credits and consent of dean, department chair and instructor with whom student plans to study.

Offered: As needed.

ANTH 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Completion of at least 90 college credits; consent of instructor, department chair and dean, and admission to the anthropology honors program.

Offered: As needed.

ANTH 492 - Independent Study II (4)

This course continues the development of research or activity begun in ANTH 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: ANTH 491, and consent of instructor, department chair and dean.

Offered: As needed.

ANTH 495 - Internships in Anthropology (1-8)

Students are placed in positions appropriate to their studies in anthropology, such as in museums and historical preservation agencies. A program of study is designed by the student and supervised by a faculty member.

Prerequisite: Completion of at least 60 college credits and consent of instructor and department chair.

Offered: As needed.

ANTH 561 - LatinX in the United States (4)

Students examine recent scholarship on LatinX in the United States and undertake research projects that focus on LatinX educational issues. Students cannot receive credit for both ANTH 561 or FNED 561.

Prerequisite: Graduate status and any 300-level social or behavioral science course, or consent of department chair.

Cross-Listed as: FNED 561.

Offered: Annually.

# ARBC - Arabic

ARBC 101 - Elementary Arabic I (4)

Students learn to understand, speak, read, and write in basic Modern Standard Arabic and gain an understanding of the diversity of Arabic life.

Offered: Fall, Spring.

ARBC 102 - Elementary Arabic II (4)

Four skills in Modern Standard Arabic—speaking, reading, writing, and listening comprehension—are further developed within the context of Arabic-speaking cultures.

Prerequisite: ARBC 101 or equivalent.

Offered: Fall, Spring.

# ART - Art

ART 101 - Drawing I: General Drawing (4)

The fundamentals and history of freehand drawing are explored. Observational analysis of forms and space, media characteristics, and pictorial organization approaches are stressed. Studio. 6 contact hours.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

ART 104 - Design I: Two-Dimensional Design (4)

Two-dimensional compositional strategies are applied through intuitive and logical organization of visual elements. Students also develop basic problem-solving skills while learning to think visually. Studio. 6 contact hours.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

ART 105 - Drawing II (3)

Drawing from the human figure is introduced, including basic anatomy, general nomenclature, and consideration of various artistic problems. Students work from live models, the skeleton, and anatomy texts. Studio fee charged. 6 contact hours.

Prerequisite: ART 101.

Offered: Fall, Spring.

ART 107 - Foundations in Digital Media (3)

Combines and extends elements from ART 101 and ART 104 with more advanced exploration and research of digital still and moving images for art making. Includes digital photography shooting lab. Studio fee charged. 6 contact hours.

Prerequisite: ART 101 and ART 104.

Offered: Fall, Spring, Summer.

ART 114 - Design II: Three-Dimensional Design (3)

The sequential development of planar and volumetric forms in real space provide the basis for study of visual structure. The role that media, process, and problem solving have in the development of form are also covered. Studio. 6 contact hours.

Prerequisite: ART 104.

Offered: Fall, Spring.

ART 201 - Visual Arts in Society (4)

Introduction to art-making, art vocabulary, and art history. Students work in a studio environment, producing and critiquing works while studying fine arts within the context of history and society. For non-art majors only. Studio and lecture.

General Education Category: Arts - Visual and Performing.

Offered: As needed.

ART 202 - Painting I (3)

The techniques of oil painting are introduced. Color, value, line, form, texture, and compositional problems are explored by observing objects and nature. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Fall, Spring.

ART 204 - Synthesis/Three-Dimensional Emphasis (3)

Using three-dimensional techniques, a synthesis of the skills and concepts developed in the previous four foundation courses is realized. The interaction of two- and three-dimensional approaches is stressed. Includes wood shop lab. Studio fee charged. 6 contact hours.

Prerequisite: ART 105 and ART 114.

Offered: Fall, Spring.

ART 205 - Synthesis/Two-Dimensional Emphasis (3)

Emphasis is on the synthesis of basic drawing language and fundamental design skills. Extended possibilities for the manipulation of materials and the conceptual aspects of image construction are stressed. Studio fee charged. 6 contact hours.

Prerequisite: ART 105 and ART 114.

Offered: Fall, Spring.

ART 206 - Ceramics I (3)

Basic hand-building methods and simple direct decoration techniques are introduced. Students explore clay, glaze materials, and firing procedures at earthenware temperatures. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205 is prerequisite for art department majors. Nonart department majors must have consent of department chair.

Offered: Fall, Spring.

ART 207 - Digital Media I (3)

Students learn a wide range of digital techniques for 2D time-based works. Class demos and critiques focus on the use of such techniques in contemporary video art world. Studio fee charged. 6 contact hours.

Prerequisite: ART 107 and concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Fall, Spring.

ART 208 - Printmaking: Intaglio and Monotype (3)

The materials and techniques of monotype and intaglio printmaking are introduced, with emphasis on the aesthetic and conceptual possibilities of various approaches. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Spring.

ART 210 - Nurturing Artistic and Musical Development (4)

This hands-on art and music course provides students with experiences, knowledge, skills, and ideas for cultivating artistic development in their own lives and the lives of others. No prior artistic experience required. Studio fee charged.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

ART 217 - Introduction to Photography (3)

Emphasis is on the expressive potential of the medium through the creative use of theory, camera controls, and darkroom procedures. Print quality is stressed. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205 is prerequisite for art department majors. Nonart department majors must have consent of department chair.

Offered: Fall, Spring.

ART 218 - Printmaking: Lithography and Relief (3)

The materials and techniques of relief and lithographic printmaking are introduced, with emphasis on the aesthetic and conceptual possibilities of various approaches. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Fall.

ART 221 - Metalsmithing and Jewelry: Basic Fabrication/Forming (3)

Fabrication and forming processes are studied, with emphasis on the development of design concepts and skills in their application to the studio practice of metalsmithing and jewelry. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205, or consent of department chair.

Offered: Fall, Spring.

ART 223 - Metalsmithing and Jewelry: Casting/Duplication Processes (3)

Casting and its application in the design and production of jewelry and small art metal forms are studied using a variety of waxes and techniques to develop models. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205, or consent of department chair.

Offered: Fall.

ART 224 - Graphic Design I (3)

Students research concept, preliminary forms, analysis, and basic studio and computer skills. Included are conceptual and visual problem-solving and graphic design theory related to creative organization of space using typography and image. Studio fee charged. 6 contact hours.

Prerequisite: ART 107 and concurrent enrollment in or completion of ART 204 or ART 205 are prerequisites for art department majors. Nonart department majors must have consent of department chair.

Offered: Fall, Spring.

ART 225 - Figurative Modeling (3)

Elements that emphasize three-dimensional aspects of the figure and the development of figurative concepts are realized through modeling and drawing. Studio. 6 contact hours.

Prerequisite: ART 105.

Offered: Fall.

ART 231W - Prehistoric to Renaissance Art (4)

The fundamental concepts and functions of the history of art, visual analysis, and interpretation are introduced. Focus is on the painting, sculpture, and architecture of early Europe and the Near East. This is a Writing in the Discipline (WID) course.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

ART 232W - Renaissance to Contemporary Art (4)

Focusing on European painting, sculpture, architecture, and the minor arts of the past 500 years, the basic aims of ART 231 are developed further. This is a Writing in the Discipline (WID) course.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

ART 234 - Sculpture: Wood and Alternate Materials (3)

Students explore a variety of subject matter and develop a personalized vision using wood fabrication skills introduced in class. Plastics, assemblage, and student-selected alternate materials are also explored. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Spring.

ART 235 - Sculpture: Metal Fabrication (3)

Traditional and contemporary approaches to sculptural form are explored using metalworking techniques, including welding, cold fabrication and forging. Studio fee charged. 6 contact hours.

Prerequisite: Concurrent enrollment in or completion of ART 204 or ART 205.

Offered: Fall.

ART 261 - Art and Money (4)

This course explores the many intersections of the spheres of art and money in the Western tradition through looking at art, readings in art history, art economics, history, and literature.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Spring.

ART 262 - Encounters with Global Arts (4)

Students explore thematic connections of art made in Africa, Asia, the Americas, the Pacific and Europe through analysis of art objects and texts in art history.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall.

ART 302 - Painting II (3)

Focusing on the figure, this course continues the development of concepts begun in ART 202. Students are encouraged to explore individual concepts, with emphasis on style, technique, and materials. Studio fee charged. 6 contact hours.

Prerequisite: ART 202.

Offered: Fall.

ART 306 - Ceramics II (3)

Emphasis is on the use of the potter's wheel and on firing at stoneware temperatures. Stress is on developing greater sensitivity to clay and glazes, experimentation, and skill. Studio fee charged. 6 contact hours.

Prerequisite: ART 206 is prerequisite for art department majors. Nonart department majors must have consent of department chair.

Offered: Fall, Spring.

ART 307 - Digital Media II (3)

Students learn advanced digital 3D strategies for the visual industry and contemporary art making. Students adapt 3D modeling techniques through solving a series of formal and conceptual problems. Studio fee charged. 6 contact hours.

Prerequisite: ART 207

Offered: Fall, Spring.

ART 324 - Graphic Design II (3)

Students investigate conceptual and visual problem solving through expanded graphic design projects. Emphasis is on the development of ideas, the manipulation of typography, image, and graphic design principles. Studio fee charged. 6 contact hours.

Prerequisite: ART 107 and ART 224.

Offered: Fall, Spring.

ART 331 - Greek and Roman Art (3)

Students will learn about Ancient Greek and Roman art and architecture in the context of the cultures of wider Mediterranean cultures. The use of and misuse of the Classical inheritance will be addressed. Lecture.

Prerequisite: ART 231 or ART 231W and ART 232 or ART 232W.

Offered: Spring.

ART 332 - Studies in Renaissance Art (3)

Students will examine painting, sculpture, architecture, and visual culture in Europe and the regions with which it had contact from 1300-1600. The course may be repeated for credit with a change in topic. Lecture.

Prerequisite: Prerequisite ART 231 or ART 231W and ART 232 or ART 232W

Offered: Fall.

ART 333 - Studies in Baroque Art (3)

Students will examine painting, sculpture, architecture, and visual culture in Europe and the regions with which it had contact from 1580-1700. The course may be repeated for credit with a change in topic. Lecture.

Prerequisite: : ART 231 or ART 231W and ART 232 or ART 232W.

Offered: Spring.

ART 334 - Studies in American Art and Architecture (3)

Students examine painting, sculpture, architecture, and visual culture from ancient times to 1920. The course may be repeated for credit with a change in topic.

Prerequisite: ART 231 or ART 231W and ART 232 or ART 232W

Offered: Fall.

ART 336 - Studies in Nineteenth-Century European Art (3)

Beginning with neoclassicism in late eighteenth-century Europe, students will follow trajectories of academic and avant-garde nineteenth-century art. The course may be repeated for credit with a change in topic.

Prerequisite: ART 231 or ART 231W and ART 232 or ART 232W

Offered: Fall.

ART 337 - Studies in Modern and Contemporary Art (3)

Beginning in the twentieth century, students are introduced to modernist, post-modernist, and contemporary art. The course may be repeated for credit with a change in topic.

Prerequisite: ART 231 and ART 232.

Offered: Spring, Summer.

ART 338 - History of Photography (3)

Focus is on the origin and aesthetic evolution of fine art photography. Movements in theory and criticism relevant to photography are explored in relation to parallel developments in other visual arts. Lecture.

Prerequisite: ART 231 or ART 231W and ART 232 or ART 232W

Offered: Spring.

ART 339 - Evolution of the Functional Object (3)

This course explores the important questions and dialogues in the current craft field and seeks to understand how they came about with perspectives from early industrial revolution to present-day.

Prerequisite: A minimum of 30 credits.

Offered: As needed.

ART 347 - Photography II (3)

Focus is on advanced photographic theory, philosophy, and technique. Students are expected to develop a portfolio theme through mature sensitivity in handling the medium. Studio fee charged. 6 contact hours.

Prerequisite: ART 107 and ART 217.

Offered: Fall, Spring.

ART 400 - Issues for the Studio Artist (4)

Studio art majors engage in issues pertinent to their roles as professional visual artists, including the articulation of personal vision, the influences of social and formal issues, and the role of galleries, museums, and educational institutions.

Prerequisite: ART 231, ART 232, and all foundations courses required of B.F.A. majors.

Offered: Fall.

ART 401 - Painting III (3)

Students explore advanced painting with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 302 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 402 - Ceramics III (3)

Students explore advanced ceramics with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 306 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 403 - Sculpture III (3)

Students explore advanced sculpture with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 234 and ART 235, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 404 - Graphic Design III (3)

Students explore identity design and brand awareness. Emphasis is on conceptual development, and strategic thinking/writing within the context of systems-based design, and continued development of visual communication, and presentation skills. Studio fee charged. 6 contact hours.

Prerequisite: ART 324 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 405 - Metalsmithing & Jewelry III (3)

Students explore advanced metalsmithing and jewelry design with emphasis on conceptual development and strategic thinking. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 221 and ART 223, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 406 - Photography III (3)

Students explore advanced photography with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 347 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 407 - Printmaking III (3)

Students explore advanced printmaking with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 208 and ART 218, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 408 - Digital Media III (3)

Students explore experimental 3D animation and advanced digital media topics. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 307 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 411 - B.F.A. Painting III (3)

B.F.A. students expand advanced study in Painting III by enrolling in ART 401 and ART 411 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 302 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 412 - B.F.A. Ceramics III (3)

B.F.A. students expand advanced study in Ceramics III by enrolling in ART 402 and 412 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 306 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 413 - B.F.A. Sculpture III (3)

B.F.A. students expand advanced study in Sculpture III by enrolling in ART 403 and ART 413 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 234 and ART 235 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 414 - B.F.A. Graphic Design III (3)

B.F.A. students expand advanced study in Graphic Design III by enrolling in ART 404 and ART 414 concurrently—broadening the scope of personal direction, professionalism, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 324 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 415 - B.F.A. Metalsmithing & Jewelry III (3)

B.F.A. students expand advanced study in Metalsmithing/Jewelry III by enrolling in ART 405 and ART 415 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 221 and ART 223 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 416 - B.F.A. Photography III (3)

B.F.A. students expand advanced study in Photography III by enrolling in ART 406 and ART 416 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 347 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 417 - B.F.A. Printmaking III (3)

B.F.A. students expand advanced study in Printmaking III by enrolling in ART 407 and ART 417 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 208 and ART 218 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 418 - B.F.A. Digital Media III (3)

B.F.A. students expand advanced studies related to experimental 3D animation in Digital Media by enrolling in ART 408 and ART 418 concurrently, with focus on conceptual development and completion of projects. Studio. 6 contact hours.

Prerequisite: ART 307 and acceptance to the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 421 - Painting IV (3)

Students continue study in advanced painting with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 401 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 422 - Ceramics IV (3)

Students continue study in advanced ceramics with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 402 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 423 - Sculpture IV (3)

Students continue study in advanced sculpture with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 403 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 424 - Graphic Design IV (3)

Students continue study in advanced graphic design with emphasis on theory, practice, conceptual development, design effectiveness and contemporary issues. A professional attitude in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 404 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 425 - Metalsmithing & Jewelry IV (3)

Students continue study in advanced metalsmithing/jewelry design, with emphasis on conceptual development, critical thinking and personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 405 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 426 - Photography IV (3)

Students continue study in advanced photography with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 406 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 427 - Printmaking IV (3)

Students continue study in advanced printmaking with emphasis on development of a personal direction. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 407 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 428 - Digital Media IV (3)

Students continue study in advanced digital media with emphasis on 3D characters in virtual environments. A professional attitude of self-regulation in developing ideas and executing work is expected. Studio fee charged. 6 contact hours.

Prerequisite: ART 408 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 431 - B.F.A. Painting IV (3)

B.F.A. students expand advanced study in Painting IV by enrolling in ART 421 and ART 431 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 401, ART 411 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 432 - B.F.A. Ceramics IV (3)

B.F.A. students expand advanced study in Ceramics IV by enrolling in ART 422 and ART 432 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 402, ART 412 and retention in the BFA Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 433 - B.F.A. Sculpture IV (3)

B.F.A. students expand advanced study in Sculpture IV by enrolling in ART 423 and ART 433 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 403, ART 413 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 434 - B.F.A. Graphic Design IV (3)

B.F.A. students expand advanced study in Graphic Design IV by enrolling in ART 424 and ART 434 concurrently—broadening the scope of personal direction, professionalism, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 404, ART 414 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 435 - B.F.A. Metalsmithing & Jewelry IV (3)

B.F.A. students expand advanced study in Metalsmithing/Jewelry IV by enrolling in ART 425 and ART 435 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 405, ART 415 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 436 - B.F.A. Photography IV (3)

B.F.A. students expand advanced study in Photography IV by enrolling in ART 426 and ART 436 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 406, ART 416 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 437 - B.F.A. Printmaking IV (3)

B.F.A. students expand advanced study in Printmaking IV by enrolling in ART 427 and ART 437 concurrently—broadening the scope of personal direction, professionalism, self-regulation, idea development and execution of work. Studio. 6 contact hours.

Prerequisite: ART 407, ART 417 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 438 - B.F.A. Digital Media IV (3)

B.F.A. students expand advanced study of 3D characters in virtual environments in Digital Media IV by enrolling in ART 428 and ART 438 concurrently, with focus on conceptual development and completion of projects. Studio. 6 contact hours.

Prerequisite: ART 408, ART 418 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 441 - Painting V: Senior Studio (3)

This final course in advanced painting culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 421 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 442 - Ceramics V: Senior Studio (3)

This final course in advanced ceramics culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 422 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 443 - Sculpture V: Senior Studio (3)

This final course in advanced sculpture culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 423 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 444 - Graphic Design V: Senior Studio (3)

This final course in advanced graphic design culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 424 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 445 - Metalsmithing & Jewelry V: Senior Studio (3)

This final course in advanced metalsmithing and jewelry design culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 425 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 446 - Photography V: Senior Studio (3)

This final course in advanced photography culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 426 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 447 - Printmaking V: Senior Studio (3)

This final course in advanced printmaking culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 427 or consent of instructor or department chair.

Offered: Fall, Spring.

ART 448 - Digital Media V: Senior Studio (3)

This final course in advanced digital media culminates in an exhibition. In-depth exploration, conceptual inquiry, and articulation skills are promoted in relation to each student's personal direction. Studio fee charged. 6 contact hours.

Prerequisite: ART 428, or consent of instructor or department chair

Offered: Fall, Spring.

ART 451 - B.F.A. Painting V: Senior Studio (3)

Final B.F.A. advanced painting course; culminates in exhibition. B.F.A. students enroll in ART 441 and ART 451 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 421, ART 431 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 452 - B.F.A. Ceramics V: Senior Studio (3)

Final B.F.A. advanced ceramics course; culminates in exhibition. B.F.A. students enroll in ART 442 and ART 452 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 422, ART 432 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 453 - B.F.A. Sculpture V: Senior Studio (3)

Final B.F.A. advanced sculpture course; culminates in exhibition. B.F.A. students enroll in ART 443 and ART 453 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 423, ART 433 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 454 - B.F.A. Graphic Design V: Senior Studio (3)

Final B.F.A. advanced graphic design course; culminates in exhibition. B.F.A. students enroll in ART 444 and ART 454 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and direction. Studio. 6 contact hours.

Prerequisite: ART 424, ART 434 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 455 - B.F.A. Metalsmithing & Jewelry V: Senior Studio (3)

Final B.F.A advanced metalsmithing/jewelry course; culminates in exhibition. B.F.A. students enroll in ART 445 and ART 455 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 425, ART 435 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 456 - B.F.A. Photography V: Senior Studio (3)

Final B.F.A. advanced photography course; culminates in exhibition. B.F.A. students enroll in ART 446 and ART 456 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 426, ART 436 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 457 - B.F.A. Printmaking V: Senior Studio (3)

Final B.F.A. advanced printmaking course; culminates in exhibition. B.F.A. students enroll in ART 447 and ART 457 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 427, ART 437 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 458 - B.F.A. Digital Media V: Senior Studio (3)

Final B.F.A. advanced digital media course; culminates in exhibition. B.F.A. students enroll in ART 448 and ART 458 concurrently—broadening the scope of in-depth exploration, conceptual inquiry, articulation skills, and personal direction. Studio. 6 contact hours.

Prerequisite: ART 428, ART 438 and retention in the B.F.A. Program, or consent of instructor or department chair.

Offered: Fall, Spring.

ART 460 - Seminar in the Visual Arts (3)

Various historical and theoretical topics in the visual arts are explored. Lecture.

Prerequisite: Consent of instructor.

Offered: As needed.

ART 461 - Seminar in Art History (3)

Through readings, discussions, and papers on selected topics, students explore specific problems in art history, including interpretation and methodology. This course may be repeated for credit with a change in content. Lecture.

Prerequisite: Advanced class standing and consent of instructor.

Offered: Fall, Spring.

ART 470 - Web Design: Principles and Practice (3)

Focus is on methods of web design, development and production including HTML, CSS, Javascript and other tools. Students will learn contemporary techniques for planning, building, promoting and testing a website. Studio. 6 contact hours.

Prerequisite: ART 324 or consent of instructor or department chair.

Offered: Fall and Spring.

ART 471 - Advanced Typography (3)

Students explore hand lettering (from pencil on paper to digital drawing), alternative type creation and advanced techniques/strategies for professional-quality typography and apply these to a multiple-page publication.

Prerequisite: ART 324 or consent of department chair.

Offered: Fall and Spring.

Art 490 - Directed Study (3-4)

Designed to be substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair, and dean.

Offered: As needed.

Art 491 - Independent Study (3-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Completion of at least 90 college credits, consent of instructor, department chair, and dean, and admission to the art honors program.

Offered: As needed.

Art 492 - Independent Study II (3-4)

This course continues the development of research or activity begun in ART 491. For departmental honors the project requires final assessment from the department.

Prerequisite: ART 491 and consent of instructor, department chair, and dean.

Offered: As needed.

ART 493 - Reading and Research in Art History (3)

Working individually with the instructor, the student expands upon written work from a 300- or 400-level art history course to produce a 20-page research paper.

Prerequisite: 300- or 400-level course in art history and consent of instructor.

Offered: As needed.

ART 590 - Directed Graduate Study (4)

Students conduct independent research and/or studio exploration in the visual arts under the supervision of a faculty member.

Prerequisite: Graduate status and consent of department chair. Open to candidates in the master's programs in art.

Offered: As needed.

ART 594 - Graduate Studio: Topic (1-6)

A professional level of work is required in both technique and attitude in this advanced study in the topic area. This course concludes with an Art Department Graduate Committee review. Studio. 2-12 contact hours.

Prerequisite: Graduate status and 400-level course in the topic.

Offered: Fall, Spring.

ART 595 - Graduate Studio: Topic (1-6)

A continuation of ART 594, this course concludes with an Art Department Graduate Committee review. Studio. 2-12 contact hours.

Prerequisite: Graduate status, ART 594 and consent of instructor.

Offered: Fall, Spring.

ART 596 - Graduate Studio: Topic (1-6)

Independent professional research is required, demonstrating continuity, integrity, and innovation in a particular area. This course concludes with an Art Department Graduate Committee review. Studio. 2-12 contact hours.

Prerequisite: Graduate status, ART 595 and consent of instructor.

Offered: Fall, Spring.

ART 691 - Thesis (3)

Students research and complete their thesis project under the direction of their thesis advisor. Credit for this course is contingent on final approval of the thesis.

Prerequisite: Graduate status, acceptance of thesis proposal and consent of department chair.

Offered: As needed.

# ARTE - Art Education

ARTE 301 - Art Education Concepts and Contexts (3)

Students are introduced to the field of art education. Concepts of art teaching and learning, artistic development and a diversity of contexts for art education are investigated. Includes clinical experiences.

Prerequisite: ART 105 and ART 114, and either ART 231 or ART 231W or ART 232 or ART 232W

Offered: Fall, Spring.

ARTE 302 - Art Curriculum Design and Assessment (3)

Prospective art educators develop theoretical and practical knowledge related to art curriculum design, art lesson planning and art teaching and assessment methods. Contemporary education environments and current social/education issues considered.

Prerequisite: ART 231, ART 232, and ARTE 301 or concurrent enrollment in ARTE 301.

Offered: Fall, Spring.

ARTE 303 - Introduction to Art Education (3)

Prospective art educators are oriented to the field of art as a discipline and to concepts of teaching and learning in art. Observational and studio experiences are included.

Prerequisite: ART 204 or ART 205.

Offered: As Needed.

ARTE 340 - Methods and Materials in Art Education (2)

Children's artistic expression in relation to research and current approaches to art education are covered. Included are studio workshop experiences with art materials used in the elementary classroom. Not open to art education majors. Studio fee charged.

Prerequisite: Completion of college writing requirement and Gen. Ed. arts requirement.

Offered: Fall, Spring, Summer.

ARTE 404 - Secondary Practicum in Art Education (3)

Teaching concepts, lesson plan development, and evaluation for secondary school art instruction are studied through readings, discussions, observations in secondary art classrooms, and introductory teaching experiences.

Prerequisite: Admission to the art education teacher preparation program, ARTE 303, and 24 credit hours of art courses.

Offered: As Needed.

ARTE 405 - Elementary Practicum in Art Education (3)

Artistic development, teaching models, and curriculum development for elementary school art instruction are studied through readings, discussions, observations in elementary art classrooms, and introductory teaching experiences.

Prerequisite: ARTE 404 and 33 credit hours of art courses.

Offered: As Needed.

ARTE 407 - Elementary Practicum in Art Education (4)

Multiple perspectives, practices and resources for elementary art education are investigated. Students practice creating, teaching and assessing art lessons for children. Includes observations and supervised teaching experiences in PK-5 settings.

Prerequisite: Admission to the art education teacher preparation program, ARTE 301, ARTE 302, and six studio foundation courses: ART 101, ART 104, ART 105, ART 107, ART 114, and either ART 204 or ART 205.

Offered: Fall, Spring.

ARTE 409 - Secondary Practicum in Art Education (4)

Multiple perspectives, practices and resources for secondary art education are investigated. Students practice creating, teaching and assessing art lessons for adolescents. Includes observations and supervised teaching experiences in grades 6-12 settings.

Prerequisite: ARTE 407 and 33 credits hours of art courses.

Offered: Fall, Spring.

ARTE 420 - Introduction to Art Education Student Teaching (2)

Teacher candidates will participate in a three-week clinical preparation in the field. This induction phase will orient art education teacher candidates to their student teaching. Includes observational and teaching experiences. Graded S, U.

Prerequisite: Concurrent enrollment in ARTE 426 and ARTE 464.

Offered: Early spring.

ARTE 421 - Art in the Elementary School (3)

The objectives of an art program in the elementary grades are considered as well as the means of developing, presenting, encouraging, and evaluating programs.

Prerequisite: ARTE 340 or elementary teaching experience, and consent of instructor.

Offered: As needed.

ARTE 426 - Student Teaching in Art Education (7)

In this culminating clinical experience, teacher candidates complete teaching experiences in elementary and secondary schools under the supervision of cooperating teachers and a college supervisor. This is a full-time experience. Graded S, U.

Prerequisite: Concurrent enrollment in ARTE 420 and ARTE 464; satisfactory completion of all major and professional courses required prior to student teaching; special departmental requirements; a cumulative G.P.A. of 2.75 a full semester prior to student teaching; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; completion of the community service requirement; and a negative result from the required tuberculin test.

Offered: Spring.

ARTE 464 - Student Teaching Seminar in Art Education (3)

Teacher candidates document, analyze, discuss and reflect upon art teaching and learning within PK-12 school contexts, including through video analysis, and establish professional goals for agency as beginning art teachers.

Prerequisite: Concurrent enrollment in ARTE 420 and ARTE 426.

Offered: Spring.

ARTE 501 - Graduate Art Education Concepts and Contexts (3)

Students are introduced to the field of art education. Concepts of art teaching and learning, artistic development, and a diversity of contexts for art education are investigated. Includes clinical experiences.

Offered: Fall, Spring.

ARTE 502 - Graduate Art Curriculum Design and Assessment (3)

Prospective art educators develop theoretical and practical knowledge related to art curriculum design, art lesson planning, and art teaching and assessment methods. Contemporary education environments and current social/education issues considered.

Prerequisite: ARTE 501 or concurrent enrollment in ARTE 501.

Offered: Fall.

ARTE 503 - Graduate Introduction to Art Education (3)

Prospective art educators are oriented to the field of art as a discipline and to concepts of teaching and learning in art. Included are graduate-level research projects as well as observational and studio experiences.

Prerequisite: Application or acceptance into the M.A.T. in art education program.

Offered: As Needed.

ARTE 504 - Graduate Secondary Practicum in Art Education (3)

Teaching concepts, lesson plan development, and evaluation for secondary art instruction are studied through readings, discussions, observations in secondary school art classrooms and introductory teaching experiences. 4 contact hours.

Prerequisite: CEP 552, prior or concurrent enrollment in ARTE 503, and acceptance into the M.A.T. in art education program.

Offered: As Needed.

ARTE 505 - Graduate Elementary Practicum in Art Education (3)

Artistic development, teaching models, and curriculum development for elementary school art instruction are studied through readings, discussions, observations in elementary school art classrooms, and introductory teaching experiences. 4 contact hours.

Prerequisite: Graduate status and ARTE 504.

Offered: As Needed.

ARTE 507 - Graduate Elementary Practicum in Art Education (4)

Multiple perspectives, practices, and resources for elementary art education are investigated. Students practice creating, teaching, and assessing art lessons for children. Includes observations and supervised teaching experiences in PK-Gr.5 settings.

Prerequisite: ARTE 501 and ARTE 502, and concurrent enrollment in SPED 531.

Offered: Fall, Spring.

ARTE 509 - Graduate Secondary Practicum in Art Education (4)

Multiple perspectives, practices, and resources for secondary art education are investigated. Students practice creating, teaching, and assessing art lessons for adolescents. Includes observations and supervised teaching experiences in Gr.6-12 settings.

Prerequisite: ARTE 507.

Offered: Fall, Spring.

ARTE 515 - Curriculum in Art Education (3)

Curriculum theory and development of art programs at elementary and secondary schools are identified, analyzed, and critiqued. Initiatives for site-specific curriculum development or revision are begun. Seminar.

Prerequisite: Graduate status and consent of department chair.

Offered: Fall.

ARTE 520 - Graduate Art Education Student Teaching Introduction (2)

Teacher candidates will participate in a three-week clinical preparation in the field. This induction phase will orient art education teacher candidates to their student teaching. Includes observational and teaching experiences. Graded S, U.

Prerequisite: Concurrent enrollment in ARTE 527 and ARTE 565.

Offered: Early Spring.

ARTE 525 - Graduate Student Teaching in Art Education (10)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Graduate status, ARTE 505, CEP 552, FNED 546; concurrent enrollment in ARTE 562; a cumulative GPA of 3.00 a full semester prior to student teaching; satisfactory completion of all required courses in the M.A.T. program in art education prior to student teaching; a minimum grade of C+ in all professional education courses; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; and a negative result from the required tuberculin test.

Offered: As Needed.

ARTE 527 - Graduate Student Teaching in Art Education (5)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Graduate status, ARTE 509, CEP 552, FNED 546; concurrent enrollment in ARTE 520 and ARTE 565; a cumulative G.P.A. of 3.00 a full semester prior to student teaching; satisfactory completion of all required courses in the M.A.T. program in art education prior to student teaching; a minimum grade of B in all professional education courses; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; and a negative result from the required tuberculin test.

Offered: Spring.

ARTE 562 - Graduate Seminar in Student Teaching in Art Education (2)

Teacher behaviors appropriate to effective teaching are developed. Topics include classroom and time management, effective communication, learning styles, and teaching strategies. This seminar meets weekly.

Prerequisite: Graduate status and concurrent enrollment in ARTE 525.

Offered: As Needed.

ARTE 565 - Graduate Art Education Student Teaching Seminar (2)

Teacher candidates document, analyze, discuss, and reflect upon art teaching and learning within PK-Gr.12 school contexts, including through video analysis, and establish professional goals for agency as beginning art teachers.

Prerequisite: Graduate status and concurrent enrollment in ARTE 520 and ARTE 527.

Offered: Spring.

ARTE 591 - Readings and Research in Art Education (3)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Graduate status consent of department chair.

Offered: As needed.

ARTE 595 - Research to Inform Art Education Practice (2)

Under the supervision of a faculty advisor, students prepare to complete the Art Education MAT Capstone Project by conducting a focused investigation on a selected topic related to the TCWS.

Prerequisite: ARTE 507 or concurrent enrollment in ARTE 507.

Offered: Fall, Spring.

ARTE 613 - Research and Evaluation in Art (3)

Art research and evaluation are analyzed for design, methodology, and conceptual foundations. Emphasis is on interpreting, understanding, and critiquing original research or evaluation projects in art or art education.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

# ARTM - Art Media

ARTM 521 - Electronic Media Production I (4)

Studies visual aspects of web design, development and production, including typography, images, color, structure, HTML, CSS and Javascript. Students learn contemporary design techniques for planning, building, promoting and testing websites. Studio. 6 contact hours.

Prerequisite: Graduate status.

Offered: Fall.

ARTM 522 - Electronic Media Production II (4)

Study is made of the hypermedia environment as an interactive synthesis of diverse elements, including text, sound, moving and still photography, video, and animation. Studio. 6 contact hours.

Prerequisite: Graduate status and ARTM 521.

Offered: Spring.

ARTM 523 - Digital Portfolio I (4)

Students develop a personal vision and learn to conceive, design, and produce hypermedia projects. Various media models are tested against topics. Students also prepare their proposals for ARTM 524. Studio. 6 contact hours.

Prerequisite: Graduate status and ARTM 522.

Offered: Fall.

ARTM 524 - Digital Portfolio II (4)

In this capstone course, students consolidate their skills, while focusing on a specific topic and format. Studio. 6 contact hours.

Prerequisite: Graduate status, ARTM 523 and a written proposal submitted to and accepted by the instructor.

Offered: Spring.

ARTM 532 - Media Ethics (4)

The ethical context of contemporary media is examined.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program or graduate status and consent of instructor and department chair. Undergraduates who have completed at least 90 college credits may enroll with documented consent of the instructor, department chair, and appropriate dean.

Offered: As needed.

ARTM 541 - Media Aesthetics (4)

The theoretical study of aesthetic principles and creative uses of media as art forms and not simply as transmission devices are presented. Students also examine theories governing the aesthetics of visual communication media.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program or graduate status and consent of instructor and department chair. Undergraduates who have completed at least 90 college credits may enroll with documented consent of the instructor, department chair, and appropriate dean.

Offered: Fall.

ARTM 542 - Media Culture and Theory I (4)

From a historico-theoretical foundation, students analyze new media and the transformations of traditional media into its recent electronic incarnations.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program or graduate status and consent of instructor and department chair. Undergraduates who have completed at least 90 college credits may enroll with documented consent of the instructor, department chair, and appropriate dean.

Offered: Spring.

ARTM 543 - Media Culture and Theory II (4)

From a theoretical foundation, students examine new media, evolving technologies, and the changes in culture, society, and media that have accompanied the rise of the computer and postmodernism.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program or graduate status and consent of instructor and department chair. Undergraduates who have completed at least 90 college credits may enroll with documented consent of the instructor, department chair, and appropriate dean.

Offered: Fall.

ARTM 579 - Media Studies Internship (1-4)

Students gain a more comprehensive understanding of electronic media through on-the-job training. Instruction, supervision, and practice in professional careers and specialties are provided.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program or graduate status and consent of instructor and department chair.

Offered: As needed.

ARTM 590 - Directed Study in Media Studies (4)

Students conduct independent research in new media and/or engage in independent electronic media production under the supervision of a faculty member.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program and consent of instructor and department chair.

Offered: As needed.

ARTM 691 - Thesis in Media Studies (4)

Students research and complete their thesis project under the direction of their thesis advisor. Credit for this course is contingent on final approval of the thesis.

Prerequisite: Acceptance into the M.A. in art with concentration in media studies program and consent of instructor and department chair.

Offered: As needed.

# BPS - Bachelor of Professional Studies

BPS 100 - Prior Learning Assessment (PLA) Portfolio Development (2)

Students experience a RIC orientation and learn how to document learning and proficiencies mastered outside the classroom in order to develop a portfolio which will be evaluated for PLA credit.

Prerequisite: Acceptance into the Bachelor of Professional Studies program.

Offered: Fall, Spring, Summer.

BPS 460 - Seminar in Organizational Leadership (4)

Students prepare and present a final project on organizational leadership using a cross-disciplinary approach for the theoretical or practical application of a topic or issue of interest.

Prerequisite: Acceptance into the Bachelor of Professional Studies program in the Organizational Leadership concentration. Taken in the final semester of program.

Offered: Fall, Spring

BPS 461 - Seminar in Social Services (4)

Students prepare and present a final project on social services using a cross-disciplinary approach for the theoretical or practical application of a topic or issue of interest.

Prerequisite: Acceptance into the Bachelor of Professional Studies program in the Social Services concentration. Taken in the final semester of program.

Offered: Fall, Spring

# BLBC - Bilingual Bicultural Education

UNDERGRADUATE STUDENTS NEED SPECIAL PERMISSION TO ENROLL IN GRADUATE COURSES. SEE COLLEGE HANDBOOK FOR DETAILS.

BLBC 515 - Foundations of Education in Bilingual Communities (3)

This course examines critical theoretical frameworks and relevant research and policy for working with bilingual communities and emergent bilingual learners. Emphasis is placed on action and advocacy.

Prerequisite: Graduate status.

Offered: Fall.

BLBC 516 - Pedagogy and Practice in Bilingual Education (3)

This course reviews current pedagogy and practice in bilingual education settings through a critical lens.

Prerequisite: Graduate status and BLBC 515; TESL 539; TESL 541 or consent of department chair.

Offered: Fall.

BLBC 517 - Curriculum Issues in Bilingual-Bicultural Education (3)

Curriculum issues relating to second-language acquisition at both the elementary and secondary levels are identified and analyzed. Curriculum models are researched and evaluated.

Prerequisite: Graduate status and BLBC 547 or TESL 546.

Offered: As needed.

BLBC 518 - Biliteracy Instruction for Emergent Bilingual Learners (3)

Current theories of bilingualism and biliteracy are examined and situated in sociocultural and historical contexts. Pedagogies for developing bilingual readers and writers are also addressed, with attention to oral proficiency.

Prerequisite: Graduate status and BLBC 515; TESL 539; TESL 541 or consent of department chair.

Offered: Spring.

BLBC 539 - Language Acquisition and Learning (3)

Theory and research relating to first- and second-language acquisition and learning are examined from a pedagogical perspective. Students cannot receive credit for both BLBC 539 and TESL 539.

Prerequisite: Graduate status and 6 credit hours of teacher education courses or consent of department chair.

Offered: As needed.

BLBC 547 - Concepts in Bilingual-Bicultural Education (3)

Methods and materials relating to bilingual and bicultural learning situations at all levels are examined and compared. Essential components of a bilingual-bicultural program are identified and implemented.

Offered: As needed.

BLBC 553 - Field Supervision: Bilingual Education and TESOL (1)

Prerequisite: TESL 553 and consent of department chair.

Offered: As needed.

BLBC 562 - Seminar in Bilingual Education (3)

Focus is on developing appropriate investigative skills and methodologies in conducting bilingual classroom-centered research. Students attend weekly seminar discussions.

Prerequisite: Graduate status and 24 credit hours of graduate courses, including BLBC 517 and BLBC 547.

Offered: As needed.

# BIOL - Biology

BIOL 100 - Fundamental Concepts of Biology (4)

Unifying concepts from various levels of biological organization are considered. This course is for students pursuing studies other than the natural sciences. Lecture and laboratory. 6 contact hours. Not open to biology and clinical laboratory science majors. Students cannot receive credit for both BIOL 100 and BIOL 109.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring, Summer.

BIOL 103 - Human Biology (3)

The fundamental principles and concepts of biology as they pertain to the human organism are introduced. This course is intended for students who are pursuing studies in areas other than the natural sciences. Lecture.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring, Summer.

BIOL 108 - Basic Principles of Biology (4)

Basic biological principles are introduced. This course prepares students for courses in anatomy, physiology, and microbiology. Lecture and laboratory (dissection included). 6 contact hours. Not open to biology majors.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring, Summer.

BIOL 111 - Introductory Biology I (4)

Emphasis is on the molecular and cellular nature of living systems. This course is intended for science majors and any student with an interest in science. Lecture and laboratory. 6 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring, Summer.

BIOL 112 - Introductory Biology II (4)

Emphasis is on organismal and ecological levels of organization. This course is intended for science majors and any student with an interest in science. Lecture and laboratory (dissection included). 6 contact hours.

General Education Category: Natural Science.

Prerequisite: BIOL 111 with a minimum grade of C-.

Offered: Fall, Spring, Summer.

BIOL 213W - Plant and Animal Form and Function (4)

Students explore multicellularity by examining the anatomical and physiological adaptations of plants and animals to the common challenges of life. Mathematical problem-solving and scientific writing skills are practiced throughout. This is a Writing in the Discipline (WID) course.

Prerequisite: BIOL 111 and BIOL 112, with a minimum grade of C.

Offered: Fall, Spring.

BIOL 231 - Human Anatomy (4)

By using a systematic approach, study is made of the human organism with respect to the histological and gross anatomy. Lecture and laboratory (dissection included). 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better.

Offered: Fall, Spring, Summer.

BIOL 240 - Biostatistics (4)

Elementary probability theory serves as a foundation to learn research design, sampling, hypothesis testing, and statistical inferences in biology. Students use SPSS to statistically analyze problems typical of biological research.

Prerequisite: Completion of college mathematics competency and a grade of C or better in BIOL 100, BIOL 108 or BIOL 112.

Offered: As needed.

BIOL 241 - Biology Research Colloquium (0.5)

Students attend formal scientific research seminars given by invited outside speakers from diverse fields of biology. Students discuss the research with the speaker and their peers. This course must be taken for two semesters. Graded S, U.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better.

Offered: Fall, Spring.

BIOL 261 - The World's Forests (4)

Interactions between people and the three major types of forests of the world (boreal, temperate, and tropical) are explored from historical, ecological, cultural, socioeconomic, environmental, and ethical perspectives.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall (even years).

BIOL 314 - Genetics (4)

A balanced treatment of classical Mendelian concepts, population topics, and the recent advances in molecular genetics are presented. Lecture and laboratory. 6 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better.

Offered: Fall.

BIOL 318 - Ecology (4)

The ecosystem is introduced. Emphasis is on how the interaction of environmental factors has shaped, influenced, and controlled the distribution of biomes, communities, and populations. Lecture, laboratory, and field trips. 6 contact hours.

Prerequisite: : BIOL 111 and BIOL 112, with a grade of C or better, and BIOL 213 or BIOL 213W.

Offered: Fall.

BIOL 320 - Cell and Molecular Biology (4)

The structure and function of cells as living units are presented. Cell metabolism, reproduction, and steady-state controls are discussed. The biochemical and ultrastructural nature of cells is examined. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111, BIOL 112, with a grade of C or better, BIOL 314; CHEM 205.

Offered: Spring.

BIOL 321 - Invertebrate Zoology (4)

Study is made of common invertebrate types, their life histories, adaptive morphology, and physiology, with respect to their environment and to their phylogenetic position. Lecture and laboratory.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better.

Offered: As needed.

BIOL 324 - Vertebrate Zoology (4)

The origin, evolution, life history, and adaptation of the subphylum vertebrata are studied. Local fauna is stressed in the laboratory. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better.

Offered: As needed.

BIOL 329 - Comparative Vertebrate Anatomy (4)

Comparison of the anatomy and functions of the vertebrates from the evolutionary point of view is presented. Included is detailed dissection of selected representatives from five classes of vertebrates. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better.

Offered: As needed.

BIOL 330 - Developmental Biology of Animals (4)

A descriptive and experimental approach is applied to animal ontogeny, with consideration of cell fate determination, differentiation, morphogenesis, and pattern formation. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111, BIOL 112, with a grade of C or better and BIOL 314.

Offered: As needed.

BIOL 335 - Human Physiology (4)

Basic principles of physiology are introduced, with emphasis on homeostatic mechanisms. Attention is given to the functions of organ systems and coordination in the whole human organism. 6 contact hours.

General Education Category: Gen. Ed. Advanced Quantitative/Scientific Reasoning.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better and BIOL 231.

Offered: Fall, Spring, Summer.

BIOL 348 - Microbiology (4)

Microbial structure and metabolism, dynamics of microbial populations, disease causation, microbial genetics, and virology are presented. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better.

Offered: Fall, Spring, Summer.

BIOL 353 - The Plant Kingdom (4)

The major groups of plants are surveyed, with emphasis on evolutionary aspects, reproductive strategies, and ecological interrelationships. Structural features of plant cells, tissues, and organs are emphasized. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or consent of instructor.

Offered: As needed.

BIOL 354 - Plant Growth and Development (4)

Topics include photophysiology, nitrogen metabolism, phytohormones, translocation, mineral nutrition, and the anatomical structures associated with these processes. Lecture and laboratory. 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or consent of instructor.

Offered: As needed.

BIOL 421 - Biochemistry of Energy Metabolism (3)

The physical and chemical properties of carbohydrates and lipids are presented. Students cannot receive credit for both BIOL 421 and CHEM 421. Lecture.

Prerequisite: Completed college mathematics competency, CHEM 206 and either BIOL 320 or CHEM 310.

Offered: As needed.

BIOL 429 - Medical Microbiology (4)

This is a study of medically important microorganisms, with emphasis on the molecular mechanisms of pathogenicity. 6 contact hours.

Prerequisite: BIOL 348; CHEM 205, CHEM 206.

Offered: As needed.

BIOL 431 - Immunology (3)

This is a study of animal immune responses, with emphasis on the properties of antigens and immunoglobulins, cellular communication, pathology, and the development and regulation of humoral and cellular immunity. Lecture.

Prerequisite: BIOL 111, BIOL 112, with a grade of C or better; CHEM 205; or consent of department chair.

Offered: As needed.

BIOL 435 - Comparative Animal Physiology (3)

This is an exploration of diverse physiological adaptations to environmental conditions. Particular emphasis is placed on the wide variety of mechanisms that animals use to cope with diverse environmental conditions.

Prerequisite: BIOL 111, BIOL 112 with a grade of C or better, and BIOL 314.

Offered: As needed.

BIOL 440 - Evolution (3)

An interdisciplinary approach is used to examine evolutionary trends of plants and animals, the origin of life, molecular evolution, and speciation. Lecture.

Prerequisite: BIOL 314.

Offered: As needed.

BIOL 443 - Fundamentals of Neurobiology (4)

A comprehensive survey of central nervous system (CNS) biology is presented. Emphasis is placed on molecular, cellular and physiological processes of the nervous system. 6 contact hours.

Prerequisite: BIOL 111, BIOL 112 and BIOL 314.

Offered: As needed.

BIOL 460W - Biology Senior Seminar (3)

Topics covering the breadth of biology content are synthesized in this capstone experience. Skills emphasized are writing and oral presentation in science. A content examination and literature review are required. Graded H, S, U. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior status (90 credit hours successfully completed), BIOL 111, BIOL 112, with a grade of C or better, BIOL 314, BIOL 318, BIOL 320; or consent of department chair.

Offered: Fall, Spring.

BIOL 491-494 - Research in Biology (1)

The experimental aspects and recent advances in different fields of biology are examined. Research projects and papers on the work accomplished are required. Not open to students enrolled in the M.A. program in biology.

Prerequisite: Two 300-level biology courses and consent of instructor, department chair and dean.

Offered: Fall, Spring, Summer

BIOL 526 - Molecular Cell Physiology (3)

Topics may include solution chemistry, membrane structure, gene regulation, homeostasis, and cell organelle structure and function. Lecture.

Prerequisite: Graduate status, BIOL 320, CHEM 205, CHEM 206.

Offered: As needed.

BIOL 531 - Mammalian Endocrinology (3)

Topics include neuroendocrinology, hypothalamic-pituitary relationships, mechanisms of hormone action, endocrine aspects of reproduction, carbohydrate metabolism, calcium homeostasis, and water/electrolyte balance. Lecture.

Prerequisite: Graduate status, two 300-level or above biology courses and consent of department chair.

Offered: As needed.

BIOL 532 - Advanced Developmental Biology (4)

The molecular regulation of development, differentiation, control of the cell cycle, and regeneration are examined, with emphasis on recent research. Lecture and laboratory. 6 contact hours.

Prerequisite: Graduate status, BIOL 314, BIOL 320, BIOL 330, or equivalents.

Offered: As needed.

BIOL 533 - Research Methods in Molecular Biology (4)

Students undertake a single semester-long research project, which requires the integration of diverse biological facts, principles, and techniques in order to answer a novel biological question.

Prerequisite: Graduate status or senior undergraduate status, with consent of department instructor, chair and dean.

Offered: As needed.

BIOL 535 - Advanced Physiology I (4)

Examination of human physiology and pathophysiology in relationship to anesthesia practice. This course will utilize a systems approach to the topics of cellular physiology, neurophysiology, cardiovascular and respiratory physiology.

Prerequisite: Enrollment in the M.S.N. nurse anesthesia program or permission of the instructor.

Offered: Fall.

BIOL 536 - Advanced Physiology II (4)

Continuation of the examination of human physiologic concepts. This course will utilize a systems approach to the topics of renal and acid-base, gastrointestinal, and endocrine concepts.

Prerequisite: Graduate status and BIOL 535.

Offered: Spring.

BIOL 560 - Graduate Seminar (1)

Students investigate a current biological topic using primary literature and develop skills that contribute to effective oral and written presentations in science.

Prerequisite: Graduate status. Open to undergraduates with consent of instructor, department chair and dean.

Offered: Fall.

BIOL 651-654 - Advanced Topics in Biology (1-4)

Individual study is provided under the direction of a faculty member of the biology department. Topics vary.

Prerequisite: Normally open only to students enrolled in the M.A. program in biology.

Offered: Fall, Spring, Summer.

BIOL 691-696 - Directed Research (1-6)

Students investigate an experimental question in biology under the direction of an advisor.

Prerequisite: Enrollment in the C.G.S. in Modern Biological Sciences or M.A. in Biology program and consent of advisor and department chair.

Offered: Fall, Spring, Summer.

# CTE - Career and Technical Education

CTE 300 - Methods of Teaching Career and Technical Education (4)

Students are introduced to teaching career and technical education at the secondary and post-secondary levels. Topics include basic planning and teaching skills, writing skills, and strategies for identifying, organizing, and presenting lessons. (Only open to students enrolled for career and technical education certification.)

Prerequisite: CEP 215 or equivalent, with minimum grade of C; minimum GPA of 2.50 in all previous courses; or consent of department chair.

Cross-Listed as: TECH 406.

Offered: Spring.

CTE 302 - Curriculum Construction in Career and Technical Education (3)

Students develop the competencies needed to identify, write, and implement a curriculum in their occupational area. (Only open to students enrolled for career and technical education certification.)

Prerequisite: CEP 215 and FNED 246.

Offered: Spring.

# CHEM - Chemistry

CHEM 103 - General Chemistry I (4)

Topics include atomic theory, periodicity, bonding, reactions, stoichiometry, gas laws, and thermochemistry. Laboratory experiments illustrate these concepts and develop laboratory techniques. Lecture and laboratory. 7 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Fall, Spring, Summer.

CHEM 103H - Honors General Chemistry I (4)

For students with a good background in science and mathematics. Topics are listed in and experiments are similar to CHEM 103, with increased emphasis on instrumentation and independent work. Lecture and laboratory. 7 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: As Needed.

CHEM 104 - General Chemistry II (4)

Topics include states of matter, solutions, kinetics, acids and bases, equilibrium theory, thermodynamics, and electrochemistry. Lecture and laboratory. 7 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: CHEM 103 or equivalent with a minimum grade of C-.

Offered: Spring, Summer.

CHEM 104H - Honors General Chemistry II (4)

For students with a good background in science and mathematics. Topics are listed in and experiments are similar to CHEM 104, with increased emphasis on instrumentation and independent work. Lecture and laboratory. 7 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: CHEM 103H or equivalent with a minimum grade of C-.

Offered: As Needed.

CHEM 105 - General, Organic and Biological Chemistry I (4)

General chemistry in preparation for studying organic and biochemistry is introduced, including structure, bonding, energy, reactions, rates, equilibrium, acids and bases; and from organic chemistry, alkanes and alkenes. Lecture and laboratory. 6 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Fall, Spring, Summer.

CHEM 106 - General, Organic, and Biological Chemistry II (4)

Topics include alcohols, carbonyl compounds, amines, amides, carbohydrates, lipids, proteins, enzymes, bioenergetics, catabolism, biosynthesis, nucleic acids, hormones, and neurotransmitters. Lecture and laboratory. 6 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: CHEM 104 or CHEM 105 with a minimum grade of C-.

Offered: Fall, Spring, Summer.

CHEM 205W - Organic Chemistry I (4)

Topics include structure, stereochemistry, nomenclature, and chemistry of hydrocarbons and alkyl halides, spectroscopy, reaction mechanisms, and computational chemistry. Lecture and laboratory. 7 contact hours.

Prerequisite: CHEM 104 with a minimum grade of C-.

Offered: Fall.

CHEM 206W - Organic Chemistry II (4)

Topics include reactions of functional groups, synthesis and mechanism, spectroscopic identification, and topics in biochemistry and computational chemistry. Lecture and laboratory. 7 contact hours.

Prerequisite: CHEM 205W.

Offered: Spring.

CHEM 310 - Biochemistry (4)

Topics include biological macromolecule structure, function and interactions, catalysis and kinetics of biochemistry, acid-base equilibrium in biological systems, and thermodynamics of binding and recognition. Lecture.

Prerequisite: CHEM 206W.

Offered: Fall.

CHEM 403 - Inorganic Chemistry I (3)

Topics include electronic structure of atoms, molecular symmetry, bond theories, acid-base chemistry, solids, redox and coordination chemistry.

Prerequisite: CHEM 206W.

Offered: Fall.

CHEM 404W - Analytical Chemistry (4)

Topics include the principles and applications of volumetric, gravimetric, and selected instrumental methods of analysis, including potentiometric and spectroscopic methods. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 104

Offered: Spring (even years).

CHEM 405 - Physical Chemistry I (3)

Through rigorous quantitative approaches, properties of gases, kinetic molecular theory, thermodynamics, statistical mechanics, and chemical and phase equilibrium are presented. Differential and integral calculus are used extensively. Lecture.

Prerequisite: CHEM 104, MATH 213, and PHYS 102.

Offered: Fall.

CHEM 406 - Physical Chemistry II (3)

Through rigorous quantitative approaches, quantum mechanics, atomic structure, atomic spectra, chemical bonding, molecular spectra, and chemical kinetics are presented. Differential and integral calculus are used extensively. Lecture.

Prerequisite: CHEM 104, MATH 314, and PHYS 102.

Offered: As Needed.

CHEM 407W - Physical Chemistry Laboratory I (1)

Experiments involving topics covered in CHEM 405 are performed. The experimental methods of physical chemistry are developed. Error analysis, statistical methods, and computer applications are emphasized. 3 contact hours.

Prerequisite: Prerequisite or corequisite: CHEM 405.

Offered: Fall.

CHEM 408 - Physical Chemistry Laboratory II (1)

This is a continuation of CHEM 407W. Experiments involving chemical kinetics, molecular spectroscopy, photochemistry, computational chemistry, and other topics covered in CHEM 406 are performed. 3 contact hours.

Prerequisite: Prerequisite or corequisite: CHEM 406.

Offered: As Needed.

CHEM 412 - Inorganic Chemistry II (2)

Topics include molecular orbital theory, symmetry, spectral and magnetic properties of coordination compounds, and selected main group and organometallic chemistry.

Prerequisite: CHEM 403.

Offered: Spring.

CHEM 413 - Inorganic Chemistry Laboratory (1)

Experiments illustrate main group periodicity, coordination and organometallic compounds' properties, and techniques, including the use of inert atmospheres and microwave acceleration of rates. 3 contact hours.

Prerequisite: Prior or concurrent enrollment in CHEM 406 and CHEM 412.

Offered: Spring.

CHEM 414 - Instrumental Methods of Analysis (4)

Emphasis is on the areas of spectroscopy, electrochemistry, chromatography, and other identification and separation techniques using instrumental methods. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 404W or CHEM 416W.

Offered: Spring (odd years).

CHEM 416W - Environmental Analytical Chemistry (4)

Topics include the principles and applications of volumetric, gravimetric, and selected instrumental methods of analysis, including potentiometric and spectroscopic methods, with emphasis on environmental applications. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 104.

Offered: Spring (odd years).

CHEM 418 - Marine Environmental Chemistry (4)

Examines biogeochemical cycling of material in the environment, including major and trace element distributions in seawater, environmental chemical equilibria, nutrient distributions and role of ocean in global climate. Students cannot receive credit for both CHEM 417 and CHEM 418.

Prerequisite: CHEM 206.

Offered: As Needed.

CHEM 419 - Biochemistry Mechanisms (3)

Mechanistic approaches to metabolic processes are discussed, including but not limited to glycolysis, citric acid cycle, oxidative phosphorylation and photosynthesis. Lecture.

Prerequisite: CHEM 310 or consent of department chair.

Offered: Spring.

CHEM 421 - Biochemistry of Energy Metabolism (3)

The physical and chemical properties of carbohydrates and lipids are presented. Students cannot receive credit for both CHEM 421 and BIOL 421. Lecture.

Prerequisite: CHEM 206W and either BIOL 320 or CHEM 310.

Offered: As needed.

CHEM 422 - Biochemistry Laboratory (3)

Topics include basic laboratory concepts, including notebook documentation, ethics, and data interpretation, as well as experiments involving DNA cloning, protein purification, spectroscopic analysis, and functional assays. Laboratory.

Prerequisite: CHEM 310 or consent of department chair.

Offered: Spring.

CHEM 425 - Advanced Organic Chemistry (4)

Synthesis, structure determination, and mechanism are discussed in the context of natural product and bio-organic chemistry. Spectroscopic and computational methods are emphasized. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 206W.

Offered: Fall (odd years).

CHEM 435 - Pharmacology and Toxicology (3)

The relationship between the chemical structure and biological activity of organic compounds is studied. Historical and current drug development and use are emphasized in relation to the biochemistry of disease.

Prerequisite: CHEM 205W and CHEM 206W, or consent of department chair.

Offered: As needed.

CHEM 467 - Honors Colloquium in Chemistry (05)

Advanced level topics in science are examined through participation in department colloquia with outside speakers and through a series of seminars. This course may be repeated for credit with a change in content. Graded S, U.

Prerequisite: CHEM 206W or consent of department chair.

Offered: Annually.

CHEM 490 - Independent Study in Chemistry (3)

Students study under the guidance of a member of the chemistry faculty. The particular area of chemistry is selected on the basis of the interest of the student and instructor.

Prerequisite: Consent of department chair.

Offered: As needed.

CHEM 491-493 - Research in Chemistry (1)

The student conducts original research in an area selected after consultation with the instructor and prepares a report on the work. A maximum of 6 credit hours may be earned in these courses.

Prerequisite: Consent of department chair.

Offered: As needed.

CHEM 519 - Biochemistry for Health Professionals (3)

This course is designed to provide nurse anesthetist students with a strong foundation of biochemistry.

Prerequisite: CHEM 105 and CHEM 106 or equivalent, enrollment in the M.S.N. nurse anesthesia program or consent of the instructor.

Offered: Fall.

# COLL - College Course

COLL 101 - The College Experience (1)

Through classroom instruction and academic advisement, students explore the meaning of higher education, the transition to college, academic organization and terminology, and time management.

Offered: Fall.

COLL 125 - College Learning Strategies (3)

Skills necessary for success in college are developed, with emphasis on organizational methods, study skills, and the interpretation of reading materials. Normally open to freshman and sophomore students only, with consent of instructor. 4 contact hours.

Offered: Fall, Spring.

COLL 202 - Open Books-Open Minds Peer Discussion Program (1)

Students facilitate analysis and discussion of the common book in a First Year Writing class. Discussion leaders participate and also encourage participation in Open Books-Open Minds events.

Prerequisite: Completion of 24 credit hours of courses and consent of instructor.

Offered: Fall, Spring.

COLL 598 - Independent Research for Individualized Graduate Program (1-6)

Students complete a scholarly research or creative project under the supervision of a faculty member, while adhering to professional standards of the relevant discipline(s) in which the IGP is completed. (May be repeated for a maximum of 6 credits.)

Prerequisite: Admission to an individualized graduate program and consent of instructor and dean of graduate studies.

Offered: As needed.

COLL 599 - Masters Thesis for Individualized Graduate Program (1-6)

Students complete a thesis under the supervision of a faculty member while adhering to professional standards of the relevant discipline(s) in which the IGP is completed. (May be repeated for a maximum of 6 credits.)

Prerequisite: Admission to an individualized graduate program and consent of instructor and dean of graduate studies.

Offered: As needed.

# COMM - Communication

COMM 162 - East Asian Popular Cinema (4)

East Asian culture, identity, gender, and communication patterns are explored through the examination of different genres in popular films and documentaries from Japan, Korea, Taiwan, Hong Kong, and China.

Offered: As needed.

COMM 201W - Writing for News (4)

The fundamentals of composition using the AP style guide are introduced. Topics include news values, basic reporting, public relations formats and techniques for achieving high-quality news and public relations writing.This is a Writing in the Discipline (WID) course. (Formerly COMM 302.)

Prerequisite: FYW 100 or FYW 100P or completion of the College Writing Requirement.

Offered: Fall, Spring.

COMM 208 - Public Speaking (4)

Students develop public-speaking skills through directed practice. Emphasis is on the selection and organization of material, the use of reasoning and evidence, speech construction, and methods of delivery.

Offered: Fall, Spring.

COMM 220 - Digital Audio Production I (4)

Students learn to create and analyze digital audio production projects in multiple forms and within different contexts. Studio based voice, music, sound design, and audio storytelling techniques are highlighted. Students cannot receive credit for both COMM 220 and MUS 220.

General Education Category: Arts - Visual and Performing

Cross-Listed as: MUS 220.

Offered: Fall, Spring, Summer.

COMM 222 - Digital Audio Production II (4)

This course serves as a project-based extension of Digital Audio Production I, including continued exploration of sound recording and transmission, composition and arranging, editing, mixing and mastering. Students cannot receive credit for both COMM 222 and MUS 222.

Prerequisite: COMM 220 or MUS 220.

Cross-Listed as: MUS 222.

Offered: As needed.

COMM 230 - Interpersonal Communication (4)

By participating in a series of communication experiences, students explore principles, skills, theory, and techniques essential for effective face-to-face communication across a variety of contexts. (Formerly COMM 330.)

Prerequisite: Completion of at least 30 college credits or sophomore standing or permission of department chair.

Offered: Fall.

COMM 240 - Mass Media and Society (4)

The institutions, history, and technology of the mass media are examined. Newspapers, film, and broadcasting media are studied in terms of social and personal impact.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

COMM 241 - Introduction to Cinema and Video (4)

Hollywood industry, new digital technology, audiences, and other important cinematic elements (visual, technical, social, ideological, aesthetical, economic, and cultural aspects) are examined.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

COMM 242 - Message, Media, and Meaning (4)

Students are introduced to visual communication and how meaning is made. Topics include the theories about and critical interpretation of visual media. Media production projects and presentations are required.

Offered: Fall.

COMM 243 - Preproduction for Digital Media (4)

Students are introduced to the concepts and techniques used during the digital media preproduction process. Students also learn how to write for a variety of digital media distribution channels.

Prerequisite: FYW 100, FYW 100P or FYW 100H.

Offered: Fall, Spring.

COMM 244 - Digital Media Lab (4)

Students learn to create and analyze digital media in multiple forms, including still image work, motion graphics composition, audio and video production, and web design.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

COMM 246 - Television Production (4)

The theoretical and practical aspects of television production, script preparation, and studio and control room operations and practice are presented. Included is a two-hour-per-week lab.

Prerequisite: COMM 243 and COMM 244.

Offered: Fall, Spring.

COMM 251W - Research Methods in Communication (4)

Students will critique research from scholarly journals and apply a selected method in an original research proposal. Topics include communication research, quantitative and qualitative methods. This is a Writing in the Discipline (WID) course. (Formerly COMM 200.)  This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 24 college credits.

Offered: Fall, Spring.

COMM 252 - Multimedia Journalism I (4)

Skills-based course which introduces visual journalism and digital storytelling. Emphasizes telling the story through audio, video and social media channels and prepares students for reporting the news digitally.

Prerequisite: COMM 244.

Offered: Fall.

COMM 253 - Multimedia Journalism II (4)

Production-based course in which students report live, real-time, news situations to create digital news packages usable across multiple digital platforms: audio, video and social media.

Prerequisite: COMM 252.

Offered: As needed.

COMM 255W - Introduction to Language (4)

The diversity and basic similarities of languages are explored, including their phonetic, phonological, morphological, syntactic, semantic, and social properties. This is a Writing in the Discipline (WID) course.

Prerequisite: COMM 251 or COMM 251W.

Offered: Spring.

COMM 256 - Human Communication and New Technology (4)

Explores how human communication occurs through new technologies, including the Internet, social media, mobile communication, and virtual spaces. Students will study both theory and praxis in professional and personal contexts.

Prerequisite: COMM 251 or COMM 251W.

Offered: Spring.

COMM 261 - Issues in Free Speech (4)

Free speech issues are critically examined in historical and cultural context. Emphasis is on American law and circumstances compared to those of selected non-Western countries.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Annually.

COMM 262 - Dialect: What We Speak (4)

This course explores the variability within a human language as influenced by geography, history, social class, gender, age, ethnicity, and cultural identity.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: As needed.

COMM 263 - East Asian Media and Popular Culture (4)

Examination of cultural forms in China, Japan, and Korea by studying socio-political and cultural implications of transnational flows between East Asia and the West through various forms of media.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Spring, Summer.

COMM 301 - Introduction to Public Relations (4)

The field of public relations is surveyed, with emphasis on the role of the communication specialist as a practitioner. Topics include public relations history, ethics, campaign design, and media use.

Prerequisite: Completion of at least 45 college credits.

Offered: Fall, Spring.

COMM 303 - Advanced Reporting and Interview (4)

Skills-based reporting course that emphasizes interviewing techniques, longer-form storytelling, interpersonal skills and feature-style story telling. Requires students to bring in real-world features and long-form interviews into class.

Prerequisite: COMM 201 or COMM 201W or COMM 302.

Offered: As needed.

COMM 305 - Introduction to Communication Disorders (3)

A variety of speech, language, and hearing problems that may exist in children and adults are examined. Normal processes, abnormalities, and treatment are also discussed.

Prerequisite: COMM 251 or COMM 251W

Offered: Fall.

COMM 311W - Advanced Public Relations (4)

Advanced public relations skills are learned, with emphasis on strategy and evaluation techniques applied to case studies. Students develop individual case studies using a multi-stage writing process. This is a Writing in the Discipline (WID) course.

Prerequisite: COMM 301.

Offered: Fall.

COMM 312W - Advanced Writing: Public Relations and Advertising (4)

Students engage in portfolio-building writing exercises beginning with resume and cover letters. Later assignments include press release, fact sheet infographic, radio and print advertisements, and annual appeal letters.This is a Writing in the Discipline (WID) course.

Prerequisite: COMM 301 or COMM 334.

Offered: Spring.

COMM 319 - Phonetics and Phonology (4)

Students develop listening and transcription skills as well as knowledge about the production of speech. The sound structure of language is explored and students are introduced to phonological theory.

Prerequisite: COMM 255.

Offered: Fall.

COMM 320W - Speech and Language Development (4)

The theories and stages involved in the acquisition of speech and language skills from birth to adolescence are examined. Included are the subsystems of language and normal and abnormal speech and language development. This is a Writing in the Discipline (WID) course.

Prerequisite: COMM 251 or COMM 251W and COMM 255 or COMM 255W.

Offered: Fall.

COMM 323 - Introduction to Audiology (3)

Acoustics, anatomy, and physiology of the ear are introduced. Included are basic hearing tests, hearing disorders, and rehabilitation.

Prerequisite: COMM 251 or COMM 251W and either COMM 255 or COMM 255W, or COMM 305.

Offered: Fall.

COMM 325 - Anatomy and Physiology: Speech and Hearing (4)

Topics include the anatomy and physiology of the speech and hearing mechanism, and neurological, skeletal, and muscular functions involved in speech and hearing.

Prerequisite: COMM 251 or COMM 251W and either COMM 255 or COMM 255W, or COMM 305

Offered: Spring.

COMM 332 - Gender and Communication (4)

Theoretical foundations of gender and communication are introduced.  Topics include verbal and nonverbal communication, communication style, socialization, and processing information. Contexts include interpersonal, organizational, political, and family.

Prerequisite: Completion of at least 45 college credits.

Offered: Fall.

COMM 333 - Intercultural Communication (4)

The communication contexts, issues and consequences that accompany interaction between people from diverse cultures are explored. Research dealing with intercultural communication is explored.

Prerequisite: Junior standing, completion of at least 60 college credits or permission of program chair.

Offered: As needed.

COMM 334 - Introduction to Advertising (4)

The key processes of modern advertising practice are introduced. Topics include production of effective advertising and media. Students cannot receive credit for both COMM 334 and MKT 338.

Prerequisite: Completion of at least 45 college credits.

Offered: Spring.

COMM 335 - Research for Public Relations and Advertising (4)

Students explore the processes of acquisition, evaluation and analysis of information needed for PR and advertising planning. Secondary and primary research for PR and advertising is introduced.

Prerequisite: COMM 301 or COMM 334.

Offered: Spring.

COMM 336 - Health Communication (4)

Explores the dynamics and impact of health communication between individuals and the health care system, such as doctor-patient communication, dissemination of health-related information, and the role of mediated communication.

Prerequisite: Completion of at least 60 hours credit or junior standing, or permission of department chair.

Offered: Spring.

COMM 337 - Advanced Advertising (4)

Theoretical foundations and the process of developing advertising strategy are introduced. Methods of using research data for developing advertising strategy are presented and case studies are discussed.

Prerequisite: COMM 334.

Offered: Spring.

COMM 338 - Communication for Health Professionals (4)

Designed for health professionals, this course examines the dynamics of patient-provider communication inside the context of the contemporary health system. Other topics covered include risk communication, diversity, influence of technology and social support and health.

Prerequisite: Completion of at least 60 college credits, enrollment in the Medical Imaging program and MEDI 201 or RADT 201.

Offered: Fall.

COMM 339W - Creativity for Public Relations and Advertising (4)

Students are introduced to the process of conceptualizing and preparing PR and advertising content for mass media. Emphasis is placed on creative thinking, strategic writing skills and visualization. This is a Writing in the Discipline (WID) course.

Prerequisite: COMM 311 or COMM 311W, or COMM 337, or permission of instructor.

Offered: Fall.

COMM 340 - Media Ethics (4)

Focus is on contemporary ethical issues that arise in both traditional mass media and new media contexts.

Prerequisite: COMM 240.

Offered: Spring.

COMM 343 - Audio Production for Multimedia (4)

This course covers the foundations of audio production for multimedia contexts including radio/podcasting, video/cinema/film, TV, and interactive multimedia.

Prerequisite: COMM 243 and COMM 244.

Offered: Fall, Spring.

COMM 344 - Broadcast Journalism (4)

The preparation, writing, production, and editing of broadcast news are discussed. Emphasis is on local and special news events. An analysis of broadcast policies and principles of news management are presented.

Prerequisite: COMM 246.

Offered: Spring.

COMM 345 - Advanced Digital Media Production (4)

Students advance their knowledge of digital media production, including video, digital graphics and audio, with an emphasis on nonfiction video projects. Course prepares them for their senior year capstone work.

Prerequisite: COMM 243 and COMM 244.

Offered: Fall, Spring.

COMM 346 - Sports Reporting (4)

Students will learn the skills necessary to succeed as sports reporters and will be required to read, watch and listen to sports reporting from a variety of sources.

Prerequisite: COMM 201 or COMM 201W, or COMM 302, or consent of department chair.

Offered: Fall.

COMM 347 - Media Law (4)

Laws and regulations that affect both mass media and new media formats are examined. Topics include the First Amendment, libel, commercial speech, obscenity and other current legal issues.

Prerequisite: COMM 240.

Offered: Spring.

COMM 348 - Global Communication (4)

Students examine how the globalization of communication systems and content affects people's lives around the world. Media and interaction patterns within and across nations are compared.

Prerequisite: COMM 240.

Offered: Fall.

COMM 349 - Media Theory and Research (4)

Students should understand the role of audience research as related to film, radio, television and online media as well as within in the social sciences.

Prerequisite: COMM 240, COMM 242 and 60 Credits.

Offered: Fall.

COMM 351 - Persuasion (4)

Students will examine principles and techniques of effective influence. The course offers practical experience in persuasive message making in a variety of contexts.

Prerequisite: COMM 208 or permission of department chair.

Offered: Fall, Spring.

COMM 353 - Political Communication (4)

The role of communication in electoral campaigns, speechmaking, debates, media coverage, political advertising, and social media is examined. Special emphasis is placed on the use of strategic communication.

Prerequisite: Completion of at least 30 college credits or sophomore standing, or permission of department chair.

Offered: Annually.

COMM 354 - Communication and Civic Engagement (4)

Students will explore the ways in which public dialogue and deliberation is used to encourage citizen engagement. Experiential projects and student-designed learning experiences are integral to the course.

Prerequisite: Completion of at least 45 college credits and COMM 208, or consent of department chair.

Offered: Spring.

COMM 356 - Group Decision Making (4)

The principles of group dynamics and discussion in task-oriented experiences are examined. Topics include group leadership skills and cooperative problem-solving methods.

Prerequisite: COMM 208 or permission of department chair.

Offered: Spring.

COMM 357 - Public Opinion and Propaganda (4)

The nature and influence of public opinion are explored. Topics include propaganda as a technique for persuasion.

Prerequisite: COMM 240.

Offered: Fall, Summer.

COMM 359 - Argumentation and Debate (4)

The tools of argumentation and debate are introduced, including the construction of logical arguments and the analysis of arguments for weakness in reasoning or evidence.

Prerequisite: 60 credits or permission of department chair.

Offered: Fall.

COMM 412 - Strategies in Fundraising and Development (4)

This course is designed to equip students with the practical skills of strategic fundraising and development, and to provide them with practice in applying these newly acquired skills.

Prerequisite: COMM 251 or COMM 251W and COMM 351, or permission of department chair.

Offered: As needed.

COMM 421 - Speech and Hearing Science (4)

Basic acoustics, the acoustics of speech, speech production theory, psycho-acoustics, and speech perception are covered. Lecture and laboratory.

Prerequisite: COMM 319.

Offered: Spring.

COMM 422 - Language Processes (4)

Human language processes are examined, with explorations into its social, biological, and cognitive components. This course may be repeated for credit with a change in content.

Prerequisite: COMM 251 or COMM 251W (or equivalent) and COMM 255 or COMM 255W.

Offered: As needed.

COMM 429 - Introduction to the Clinical Process (3)

The clinical process and ethics in speech-language pathology and audiology are introduced. Students earn 25 observation hours and learn professional report writing.

Prerequisite: Completion of at least six courses in communication, including COMM 305, with a minimum GPA of 3.00 in all courses.

Offered: As needed.

COMM 443 - Sports, Culture, and Media (4)

This course explores the dynamics of the relationship between sports and the media, and examines how media interprets sports through critical and cultural media theories.

Prerequisite: COMM 240 and 60 Credits.

Offered: Spring.

COMM 452 - Conflict Resolution (4)

Conflict is examined as a personal and societal challenge that can be managed by applying communication skills and knowledge.

Prerequisite: Junior standing, completion of at least 60 college credits or permission of program chair.

Offered: As needed.

COMM 454 - Organizational Communication (4)

A review of theory and practice of communication in organizations. Topics include corporate culture, leadership, teamwork, globalization, ethics, diversity, and critiques of communication systems and structures.

Prerequisite: Completion of at least 60 college credits or junior standing, or permission of department chair.

Offered: Annually.

COMM 459 - Debate Practicum (4)

By applying theories and methods of argumentation, students debate on controversial topics in public venues, such as high schools.

Prerequisite: COMM 359 or consent of department chair.

Offered: As needed.

COMM 460 - Seminar in Communication (3)

A topic not previously studied in communication is researched.

Prerequisite: Completion of at least 75 college credits, including COMM 208, COMM 251 or COMM 251W, and 12 additional credit hours of communication courses.

Offered: As needed.

COMM 461 - Public and Professional Capstone (4)

This course offers students an opportunity to engage in a research study employing rhetorical, qualitative, or quantitative methods, and author an essay suitable for presentation before academic or professional audiences.

Prerequisite: 75 credit hours, all communication required courses (COMM 208, COMM 251, COMM 351) and at least 4 other Public and Professional courses.

Offered: Spring.

COMM 479 - Communication Internship (4)

Students gain a more comprehensive understanding of communication fields through on-the-job training. This course may be repeated once for credit.

Prerequisite: Open to communication majors who have completed at least 75 credit hours of undergraduate courses, 18 of which are communication courses, and to graduate students, with consent of instructor. Application must be made during the semester prior to field experience. Additional requirements are set forth in the application form.

Offered: Fall, Spring, Summer.

COMM 485 - Public Relations and Advertising Campaigns (4)

Working in teams, students research, plan and implement a communication campaign for a client organization. Field experience may be required.

Prerequisite: COMM 251 or COMM 251W, COMM 301, COMM 334 and COMM 311 or COMM 337.

Offered: Fall, Spring.

COMM 490 - Directed Study (1-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

COMM 491 - Special Problems in Communication (1-4)

Students select a practicum-oriented problem and undertake concentrated research under the supervision of a faculty advisor. This course may be repeated once for credit with a change in content.

Prerequisite: Completion of at least 18 credit hours of communication courses, including COMM 251 or COMM 251W, and consent of instructor, department chair and dean.

Offered: As needed.

COMM 492 - Digital Media Practicum (4)

Students collaborate in teams to produce digital media content types across multiple media platforms, formats and delivery systems. Group and individual projects are evaluated via the student’s capstone portfolio.

Prerequisite: COMM 343, COMM 345, and COMM 349 or consent of the department chair.

Offered: Fall, Spring.

COMM 494 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean, and admission to the communication honors program.

Offered: As needed.

COMM 495 - Independent Study II (4)

This course continues the development of research or creative activity begun in COMM 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: COMM 491 and consent of instructor, department chair and dean.

Offered: As needed.

# CTSC - Computed Tomography

CTSC 300 - Principles of Computed Tomography (2)

The principles of computed tomography imaging are taught, including basic patient care, pharmacology and drug administration, and routine pediatric and emergency medical care procedures.

Prerequisite: Acceptance into a medical imaging clinical program.

Offered: As needed.

CTSC 301 - Computed Tomography Physics and Radiation Protection (2)

Topics include the physical principles and instrumentation involved in computed tomography. An overview is also given of radiation protection and responsibilities.

Prerequisite: Acceptance into a medical imaging clinical program.

Offered: As needed.

CTSC 407 - Sectional Anatomy and Pathology (2)

Course content includes the detailed study of gross anatomical structures by location, relationship to other structures, and function. Thorough coverage is given of human diseases diagnosable via computed tomography.

Prerequisite: Acceptance into a medical imaging clinical program.

Offered: As needed.

CTSC 432 - Computed Tomography Clinical Practice (8)

Content and clinical practice experiences are designed to develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in performing computed tomography procedures. 24 contact hours.

Prerequisite: Acceptance into a medical lmaging clinical program.

Offered: As needed.

CTSC 438 - Registry Review (2)

This course prepares students for successful completion of the American Registry of Radiologic Technologists Advanced Certification Examination in Computed Tomography.

Prerequisite: Concurrent enrollment in CTSC 300.

Offered: As needed.

# CIS - Computer Information Systems

CIS 252 - Introduction to Information Systems (4)

Information systems are an integral part of all business activities and careers. This course introduces students to contemporary information systems and demonstrates how these systems are used throughout global organizations. (Formerly CIS 352 Management Information Systems.)

Prerequisite: Completion of 15 college credits.

Offered: Fall, Spring, Summer

CIS 301 - Introduction to Computer Programming in Business (4)

Introductory course using an object-oriented programming language to solve business problems. Topics include: algorithm concepts and development; object-oriented programming methodologies; graphical interface design and event based programming.

Prerequisite: CIS 252 or CIS 251.

Offered: Fall, Spring.

CIS 302 - Intermediate Computer Programming in Business (4)

Prerequisite: CIS 255, CIS 256, CIS 257, or CIS 301.

Offered: As needed.

CIS 320 - Information Technology: Hardware and Software Systems (4)

The evolution of the major subsystems of computer hardware, technical knowledge of the integration of hardware, and selected operating systems software are examined.

Prerequisite: CIS 251 or CIS 252 or consent of department chair.

Offered: As needed.

CIS 324 - Dynamic Web Development (4)

Students are introduced to basic concepts, issues, and techniques related to designing, developing, and deploying websites. Technology will include current practice and tools for server-side programming. Programming projects are required. Students cannot receive credit for both CIS 324 and CSCI 324.

Prerequisite: CSCI 157 or CIS 301, or consent of department chair.

Offered: Fal..

CIS 350 - Special Topics (4)

New courses are offered by faculty to present latest computer information materials.

Prerequisite: CIS 251 or CIS 252 or consent of department chair.

Offered: As needed.

CIS 351 - Advanced Office Applications for Business (4)

Advanced applications of Office Suite software are examined. Applications include database, spreadsheet, word processing, and presentation graphics.

Prerequisite: CIS 251 or CIS 252 or consent of department chair.

Offered: As needed.

CIS 358 - Mobile Application Development (4)

Students are introduced to mobile application design concepts and programming components. These concepts and components include simple mobile programs (e.g. canvas, animation and games); global variables and conditionals; procedures; and procedures with parameters, lists and tiny database.

Prerequisite: CIS 251 or CIS 252 and completion of 60 college credits.

Offered: As needed.

CIS 416 - Web Design (4)

Students are introduced to concepts, issues and techniques related to designing website interfaces using a variety of tools. Study includes HTML, CSS, and JavaScript. Students cannot receive credit for both CIS 416 and CSCI 416.

Prerequisite: CSCI 157 or CIS 301.

Offered: Spring.

CIS 421 - Networks and Infrastructure (4)

Both computer and systems architecture and communications networks are presented with a focus on the services and capabilities that information technology infrastructure solutions enable in an organizational context.

Prerequisite: CIS 252 or CIS 352 and completion of 60 college credits, or consent of department chair.

Offered: Fall, Spring.

CIS 440 - Issues in Computer Security (4)

Students evaluate organizational and technological methods employed to provide security for computer software, hardware, and data. Topics include controlling for error, natural disaster, and intentional attacks.

Prerequisite: CIS 252 or CIS 352 and completion of 60 college credits, or consent of department chair.

Offered: Fall, Spring.

CIS 453 - This course has been deleted. See program director for substitute course. (Systems Analysis and Design) (3)

CIS 455W - Database Programming (4)

The basic components of file and communication systems as they support information systems are surveyed. This is a Writing in the Discipline (WID) course.

Prerequisite: CIS 252 and CIS 301 or consent of department chair.

Offered: Fall, Spring.

CIS 462W - Applied Software Development Project (4)

This is a practicum in the application of programming and systems-development concepts, resulting in a comprehensive systems-development project. This is a Writing in the Discipline (WID) course.

Prerequisite: ONE from CIS 255, CIS 256, CIS 257, or CIS 301, and CIS 455 or CIS 455W, or consent of department chair.

Offered: Fall, Spring.

CIS 467 - Directed Internship (4)

Students are assigned to a business, an industrial organization, or a not-for-profit organization and supervised by a mentor. Students receive 1 credit hour for every four hours of work. A two-hour biweekly seminar is included. Graded S, U.

Prerequisite: Major in computer information systems and completion of at least 60 college credits.

Offered: Fall, Spring, Summer.

CIS 470 - Introduction to Data Analytics (4)

Domain knowledge in mathematics, statistics, machine learning and databases that pertains to specific data and information extraction are introduced. Students use these tools to solve unstructured problems.

Prerequisite: CIS 252 or CIS 352, CIS 301 or CSCI 157 and MATH 248 or MATH 240, or consent of department chair

Offered: Fall.

CIS 472 - Data Visualization (4)

This course introduces algorithms and techniques for effective data visualizations based on data science principles, graphic and communication design, visual art, perceptual and cognitive science. Data visualization tools are introduced.

Prerequisite: CIS 252 or CIS 352, CIS 301 or CSCI 157 and MATH 248 or MATH 240, or consent of department chair.

Offered: As needed.

CIS 490 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

CIS 491 - Independent Study I (4)

This course emphasizes the development of research for students admitted to the computer information systems honors program. The research topic is selected and conducted under the mentorship of a faculty advisor.

Prerequisite: Admission to the CIS honors program and consent of instructor, department chair and dean.

Offered: As needed.

CIS 492 - Independent Study II (4)

This course continues the development of research begun in CIS 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: CIS 491 and consent of instructor, department chair and dean.

Offered: As needed.

CIS 535 - Data Management (3)

Various techniques are explored for the management of the design and development of database systems. Issues in the creation and use of logical data models, database administration, and concurrent processing are explored.

Prerequisite: Graduate status and senior standing or consent of department chair.

Offered: As needed.

CIS 541 - Legal Aspects of Information Technology (3)

The legal environment within which an organization must conduct its electronic commerce is reviewed. Legal liability for data transmission and exchange is also explored.

Prerequisite: Graduate status and senior standing or consent of department chair.

Offered: As needed.

CIS 542 - Electronic Commerce (3)

The systems and management challenges and the opportunities and successful strategies required to develop and maintain electronic commerce are examined. Marketing, strategy, infrastructure design, and server management are also covered.

Prerequisite: Graduate status and senior standing or consent of department chair.

Offered: As needed.

CIS 543 - Decision Support Systems (3)

The decision-making process is examined, with emphasis on dealing with incomplete and inexact data, including unstructured environments. The use of data management, modeling, and simulation are explored.

Prerequisite: Graduate status and senior standing or consent of department chair.

Offered: As needed.

# CSCI - Computer Science

CSCI 102 - Computer Fundamentals for Cyber Security (4)

Students will learn the technical details necessary to study cyber security. Topics include binary and hexadecimal, operating systems, hardware and software, networking, memory, storage management and databases.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring.

CSCI 157 - Introduction to Algorithmic Thinking in Python (4)

This course introduces algorithmic thinking and computer programming in the Python programming language. Topics include algorithms, flowcharts, top-down design, selection, repetition, modularization, input-output, and recursion.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring.

CSCI 209 - Discrete Structures Using Python (4)

Students will explore computer science topics in programming, algorithms, compilers, networks and cryptography. Fundamental mathematical concepts like finite=state machines, recurrence relations, graphs and probability will be applied using Python programs.

Prerequisite: CSCI 157 and MATH 120 or appropriate score on placement exam.

Offered: Fall, Spring.

CSCI 211 - Computer Programming and Design (4)

Fundamentals of problem specification, program design, and algorithm development are taught in the Java programming language. Topics include functions, selection, iteration, recursion, arrays, classes, and inheritance.

Prerequisite: CSCI 157 or consent of department chair.

Offered: Fall, Spring.

CSCI 212W - Data Structures (4)

Abstract datatypes and data structures are presented. Topics include time complexity, linked lists, stacks, queues, lists, hashing, trees, heaps, searching, sorting, and development of object-oriented programming techniques. This is a Writing in the Discipline (WID) course.

Prerequisite: CSCI 211 or CSCI 221.

Offered: Fall, Spring.

CSCI 302 - C++ Programming (3)

The fundamental concepts and constructs of the C++ programming language are examined. Topics include expressions, input/output, control structures, classes, inheritance, arrays, strings, and templates.

Prerequisite: CSCI 211 or CSCI 221.

Offered: As needed.

CSCI 305 - Functional Programming (4)

Functional programming focuses on the design process from problems to well-organized solutions. Topics include, design recipes, functions, lists, self-referential data structures, recursion, lambda functions, and abstraction with practical applications.

Prerequisite: CSCI 201 or CSCI 211 or equivalent, or consent of department chair.

Offered: As needed.

CSCI 309 - Object-Oriented Design (4)

Students will learn fundamental concepts, techniques and principles in object-oriented analysis and design. Topics include the object-oriented design process, interfaces, inheritance, polymorphism, graphical user interfaces and design patterns.

Prerequisite: CSCI 201 or CSCI 211.

Offered: Fall, Spring.

CSCI 313 - Computer Organization and Architecture (4)

Students investigate combinational and sequential circuits. System architecture including the central processing unit, memory, input/output, MIPS assembly language programming. Input/output and interrupt programming. System performance enhancements including caching and parallelism.

Prerequisite: CSCI 209 or CSCI 312; and CSCI 212 or CSCI 212W.

Offered: Fall, Spring.

CSCI 324 - Dynamic Web Development (4)

Students are introduced to basic concepts, issues, and techniques related to designing, developing, and deploying websites. Technology will include current practice and tools for server-side programming. Programming projects are required.  Students cannot receive credit for both CIS 324 and CSCI 324.

Prerequisite: CSCI 157 or CIS 301, or consent of department chair.

Offered: Fall.

CSCI 325 - Organization of Programming Language (3)

Programming language constructs are presented, with emphasis on the run-time behavior of programs. Topics include language definition, data types and structures, and run-time considerations.

Prerequisite: CSCI 212 or CSCI 212W or CSCI 315.

Offered: Fall (even years), Spring.

CSCI 401W - Software Engineering (3)

The software development process is examined from initial requirements analysis to operation and maintenance. Student teams develop a software system from requirements to delivery, using disciplined techniques. This is a Writing in the Discipline (WID) course.

Prerequisite: CSCI 212 or CSCI 212W, or CSCI 309 or CSCI 315, and at least two additional computer science courses at the 300-level or above. or consent of department chair.

Offered: Fall (even years), Spring.

CSCI 402 - Cyber Security Principles (4)

Students will explore topics such as software security, secure programming, network security, cryptography and virtual machines. Students will study cyber security history and the legal discourse surrounding the field.

Prerequisite: CSCI 102 and CSCI 157; or CSCI 211.

Offered: Fall, Spring.

CSCI 410 - Digital Forensics (4)

Students will investigate digital forensic science methods and processes and apply them to the discovery, collection and analysis of evidence. Topics include documenting procedures, securing data and providing expert testimony.

Prerequisite: CSCI 402.

Offered: Fall.

CSCI 415 - Software Testing (4)

Software testing principles, concepts, and techniques are presented within the context of the software development life cycle. Topics include software test design, test process, test management, and software testing tools.

Prerequisite: CSCI 212 or CSCI 212W, or CSCI 315, or consent of department chair.

Offered: Spring.

CSCI 416 - Web Design (4)

Students are introduced to concepts, issues and techniques related to designing website interfaces using a variety of tools. Study includes HTML, CSS, and JavaScript. Students cannot receive credit for both CIS 416 and CSCI 416.

Prerequisite: CSCI 157 or CIS 301.

Offered: Spring.

CSCI 423 - Analysis of Algorithms (4)

Techniques for designing algorithms and analyzing their efficiency are covered. Topics include "big-oh" analysis, divide-and-conquer, greedy method, efficient sorting and searching, graph algorithms, dynamic programming, and NP-completeness.

General Education Category: Advanced Quantatitive/Scientific Reasoning

Prerequisite: CSCI 209 or MATH 436; either CSCI 212 or CSCI 212W, or CSCI 315; and MATH 212.

Offered: Fall (odd years), Spring.

CSCI 427 - Introduction to Artificial Intelligence (3)

Fundamental artificial intelligence methods are introduced, including search, inference, problem solving, and knowledge representation. AI applications, such as natural language understanding and expert systems, are introduced.

Prerequisite: CSCI 212 or CSCI 212W or CSCI 315.

Offered: As needed.

CSCI 428 - Machine Learning ()

Students will learn to develop intelligent systems and analyze data.  Topics include supervised, unsupervised and deep learning algorithms.  Current packages and tools will be used to solve real-world problems.

Prerequisite: CSCI 212W, or CIS 470 and CSCI 157, or consent of department chair.

Offered: Spring

CSCI 432 - Network and Systems Security (4)

Students will study a survey of network and systems security topics such as packet analysis, penetration testing and intrusion detection. Students will practice with tools/techniques used by security professionals.

Prerequisite: CSCI 402.

Offered: Spring.

CSCI 435 - Operating Systems (4)

Students explore topics of modern operating systems such as process management and synchronization, CPU scheduling and memory management. Emphasis is placed on increasing OS performance, while enhancing privacy and security.

Prerequisite: CSCI 313 and either CSCI 212, or CSCI 212W, or CSCI 315.

Offered: Fall, Spring (even years).

CSCI 437 - Network Architectures and Programming (4)

An introduction to fundamental concepts of computer networks. Topics include the internet reference model, TCP/IP, flow control, congestion control, routing, switching, network programming, and data capturing and analysis.

Prerequisite: : CSCI 212 or CSCI 212W, or CSCI 315.

Offered: As needed.

CSCI 455 - Introduction to Databases (4)

Students explore the fundamental concepts of database systems. Topics include relational databases, database modeling and design, SQL, query processing and optimization, distributed and noSOL, databases and database security.

Prerequisite: CSCI 212 or CSCI 212W, or CSCI 315.

Offered: Fall.

CSCI 467 - Computer Science Internship (4)

Students work at a business or nonprofit organization integrating classroom study with work-based learning, supervised by a faculty member.

Prerequisite: Major in computer science, minimum GPA of 2.67 in computer science courses, completion of or concurrent enrollment in CSCI 401 or CSCI 401W, and consent of department chair.

Offered: As needed.

CSCI 476 - Advanced Topics in Computer Science (4)

Recent developments and topics of current interest in computer science are studied. This course may be repeated for credit with a change in content.

Prerequisite: CSCI 212 or CSCI 212W, or CSCI 315.

Offered: Spring.

CSCI 490 - Directed Study in Computer Science (1-4)

This course is open to students who have demonstrated superior ability in computer science. Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated for credit once with a change in content.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

CSCI 491 - Independent Study in Computer Science (1-4)

This course is open to students who have demonstrated superior ability in computer science. Students select a topic and undertake concentrated research or creative activity mentored by a faculty member. This course may be repeated for credit once with a change in content.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

# CEP - Counseling and Educational Psychology

CEP 215 - Introduction to Educational Psychology (4)

Students examine introductory topics in Educational Psychology including human development, diversity, motivation, behavior, learning, teaching and assessment both in and out of school environments.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

CEP 509 - Professional Orientation and Ethical Practice (3)

Overview of the counseling profession including history, contemporary issues, professional identity and preparation of clinical mental health counselors is provided. Standards of ethical practice in counseling are reviewed.

Prerequisite: Matriculation into a graduate counseling program or consent of department chair.

Offered: Fall, Summer.

CEP 519 - Supervision of Field-Based Work (1)

Students review the practice and administration of supervision for CEP candidates. Focus is on the characteristics of effective supervisors and the current trends in professional disciplines. Hybrid course.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

CEP 531 - Human Development across Cultures (3)

Focus is on human development theories across cultures as they relate to the field of human services and on life cycle stages, the exploration of child, adolescence, and adult issues.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring, Summer.

CEP 532 - Theories and Methods of Counseling (3)

The nature of the counseling process and theories of counseling are considered. Included are techniques of interviewing and an examination of common and special counseling problems in various school and agency settings.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

CEP 533 - Psychology of Students with Exceptionalities (3)

The symptoms, causes and treatment of developmental, learning and social-emotional problems of children are covered. Educational classification criteria, services, interventions and collaboration are reviewed. Observations are required.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring.

CEP 534 - Quantitative Measurement and Test Interpretation (3)

Students develop techniques for the effective use of test results in counseling, including statistical and data analysis techniques.

Prerequisite: Matriculation into the master's program in counseling or school psychology and CEP 532, or consent of department chair.

Offered: Fall.

CEP 535 - Vocational Counseling and Placement (3)

Counseling theories are explored, including the assessment of individual aptitudes, interests, and abilities. Also examined are occupational information sources and opportunities.

Prerequisite: Graduate status or consent of department chair.

Offered: Summer.

CEP 536 - Biological Perspectives in Mental Health (3)

Students are introduced to the neuroscience perspective of studying human behavior, including the biology of mental illness and the role of psychopharmacology.

Prerequisite: CEP 532 and matriculation into the master's program in counseling or school psychology program, or consent of department chair.

Offered: Fall, Summer.

CEP 537 - Introduction to Group Counseling (3)

The dynamics of group process, an analysis of current modalities, and the principles and techniques of group counseling are covered. Students participate in a time-limited group.

Prerequisite: CEP 538 and matriculation into the master's program in counseling or school psychology program, or consent of department chair.

Offered: Fall, Summer.

CEP 538 - Practicum I: Introduction to Counseling Skills (3)

Counseling experience is offered under supervised laboratory conditions, with emphasis on observation and evaluation in a laboratory-seminar sequence. Video, audio, and process recordings are used.

Prerequisite: CEP 531, CEP 532, and matriculation into the master's program in counseling or school psychology program.

Offered: Fall, Summer.

CEP 539 - Practicum II: Clinical Interviewing and Treatment Planning (3)

Students learn to conduct clinical interviews and develop collaborative, evidenced-based clinical treatment plans. Students apply their skills in a supervised clinical setting for 50 hours over the semester.

Prerequisite: Graduate status and CEP 538, with minimum grade of B, and prior or concurrent enrollment in CEP 509 and CEP 543.

Offered: Spring.

CEP 540 - Clinical Practicum with Children in Schools (3)

Attention is given to developing skill in counseling children and youth, while working with clients under controlled supervisory conditions. Supervised school-based experiences are required.

Prerequisite: Graduate status and CEP 538, with minimum grade of B.

Offered: Spring.

CEP 541 - Clinical Internship in School Counseling I (3)

Students complete 150 hours of supervised school counseling in a school setting.

Prerequisite: Graduate status and CEP 540, with minimum grade of B.

Offered: Fall.

CEP 542 - Clinical Internship in School Counseling II (3)

This is a continuation of CEP 541.

Prerequisite: Graduate status and CEP 541, with minimum grade of B.

Offered: Spring.

CEP 543 - Clinical Assessment and Case Problems (3)

This is an introduction to clinical decision making, diagnostic assessment, and treatment planning. Students also learn how to conduct intakes and mental status examinations and how to diagnose various psychiatric conditions.

Prerequisite: Graduate status and prior or concurrent enrollment in CEP 536, or consent of department chair.

Offered: Spring.

CEP 544 - Family Counseling Theory and Practice (3)

Current family counseling theories and methods are introduced. Class instruction includes lectures, demonstrations, and family simulations.

Prerequisite: Graduate status and CEP 537 and CEP 538.

Offered: Spring.

CEP 549 - Foundations in School Counseling (3)

This is an introduction to the historical foundations, roles and functions, and professional standards and ethics in the practice of school counseling.

Prerequisite: CEP 531, CEP 532, and matriculation into the school counseling program.

Offered: Fall.

CEP 551 - Behavioral Assessment and Intervention (3)

Current theory, research, and applications of behavioral assessment and intervention are reviewed. Emphasis is on behavioral approaches to school-related problems.

Prerequisite: Matriculation into the school psychology program or consent of department chair.

Offered: Spring.

CEP 552 - Psychological Perspectives on Learning and Teaching (3)

This is a systematic study of students and teachers and their interactions in classroom settings. Emphasis is on understanding typical and exceptional learners. A field component is required.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall, Summer.

CEP 553 - Counseling Children and Adolescents (3)

This course explores the application of developmental theory, evidence-based literature, and the clinical knowledge of children and adolescents to guide effective counseling with diverse populations.

Prerequisite: Graduate status and CEP 531 and CEP 532.

Offered: Fall.

CEP 554 - Research Methods in Applied Settings (3)

Nonexperimental, experimental, and single-subject designs are explored, along with the use of inferential statistics. A research proposal relevant to human service settings is also developed.

Prerequisite: Graduate status and a measurement and/or research course (CEP 534 or equivalent).

Offered: Spring.

CEP 556 - Cognitive Behavioral Therapy Interventions (3)

Students will learn the fundamental components and theoretical bases of cognitive behavioral therapy and how to conceptualize and treat various clinical problems through a cognitive behavioral therapy framework.

Prerequisite: Graduate status and CEP 538 or consent of department chair.

Offered: Summer.

CEP 558 - Multimodal Clinical Interventions (3)

Students will learn how to apply various multimodal counseling techniques such as writing exercises, goal-setting charts, diagrams and movement exercises to a variety of clinical populations.

Prerequisite: CEP 532 or consent of department chair.

Offered: Summer.

CEP 533 - Psychology of Students with Exceptionalities (3)

The symptoms, causes, and treatment of developmental, learning, and social-emotional problems of children are covered. Educational classification criteria, services, interventions, and collaboration are reviewed. Observations are required.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring.

CEP 601 - Cognitive Assessment (3)

Lab experiences are provided in the administration, scoring, and interpretation of individual cognitive tests, with emphasis on the application of tests. Psychological report writing is also introduced.

Prerequisite: Matriculation into the school psychology program.

Offered: Fall.

CEP 602 - Social-Emotional Assessment and Intervention (3)

Objective and projective techniques in the assessment of child and adolescent personalities are studied. Lab experiences are provided in test administration, scoring, and interpretation.

Prerequisite: Graduate status, CEP 534 and CEP 551.

Offered: Spring.

CEP 603 - Professional School Psychology (3)

This course covers the foundations of school psychology, roles and functions of psychologists in schools, professional standards and ethics, realities of practice, and vital issues for the profession.

Prerequisite: Matriculation into the school psychology program.

Offered: Fall.

CEP 604 - Psychoeducational Assessment and Response-to-Intervention (3)

The neuropsychological process in learning is reviewed, with lab work in the use of psychoeducational tests to identify learning problems. Remedial instructional strategies are also examined.

Prerequisite: Graduate status and prior or concurrent enrollment in CEP 601.

Offered: Spring.

CEP 605 - School Psychology Practicum (6)

This is a yearlong, 400-hour practicum experience. Emphasis is on supervised practice in the problem-solving approach to school psychological service.

Prerequisite: Graduate status and CEP 601, CEP 603, and CEP 604, each with minimum grade of B.

Offered: Fall, Spring.

CEP 610 - Advanced Clinical Internship I (3)

Students attend a weekly seminar and log 300 hours at a work setting placement under the supervision of a field supervisor and department faculty member.

Prerequisite: Graduate status and CEP 509 and CEP 684 (with minimum grade of B) or consent of department chair.

Offered: Fall.

CEP 611 - Advanced Clinical Internship II (3)

Students attend a weekly seminar and log 300 hours at a work setting placement under the supervision of a field supervisor and department faculty member.

Prerequisite: Graduate status and CEP 610 (with a minimum grade of B) or consent of department chair.

Offered: Spring.

CEP 612 - Cross-Cultural Counseling (3)

Issues in counseling diverse groups are presented. Current counseling models are adapted to meet these groups' specific needs.

Prerequisite: Graduate status and CEP 539 or consent of department chair.

Offered: Fall.

CEP 613 - Foundations of Counseling Survivors of Trauma (3)

Students will be introduced to foundations in understanding of and treatment of trauma, including neurobiological, social and cultural, and developmental perspectives.

Prerequisite: Matriculation in graduate program or consent of department chair.

Offered: Spring.

CEP 629 - Internship in School Psychology (12)

This internship consists of a 1,200-hour, one-year placement in a cooperating school system under the supervision of a certified school psychologist and a college faculty member. A weekly seminar is required.

Prerequisite: Graduate status, CEP 604 and CEP 605.

Offered: Fall, Spring.

CEP 648 - Assessment and Treatment of Co-Occurring Disorders (3)

Students develop clinical skills to assess, diagnose, and engage chemically dependent individuals in counseling and recovery processes. The interactive nature of substance use and co-occurring mental health issues is explored.

Prerequisite: Graduate status and CEP 539 or consent of department chair.

Offered: Summer.

CEP 649 - Clinical Practice with Military Connected Clients (3)

Students utilize clinical methods to assess, diagnose and treat military stressors and trauma. Military culture is explored and the need for competent clinical practice is emphasized.

Prerequisite: Graduate status in counseling program or second year status in M.S.W. program; CEP 543 or equivalent assessment course recommended; or consent of department chair.

Cross-Listed as: SWRK 649

Offered: Spring.

CEP 651 - Academic Instruction, Interventions and Supports (3)

Course covers evidence-based interventions to promote academic skills, including reading and mathematics. Students will learn how to conceptualize student needs and intervene through a Multi-Tiered System of Supports framework.

Prerequisite: Graduate status and CEP 604 or consent of department chair.

Offered: Fall.

CEP 656 - Crisis Assessment and Intervention (3)

This course includes an examination of diverse crisis situations as well as assessment and treatment strategies used by counselors to assist individuals, groups, and organizations in managing and resolving crises.

Prerequisite: Graduate status and CEP 539 or consent of department chair.

Offered: Fall, Summer.

CEP 675 - Consultation and Collaboration in School and Community Settings (3)

For graduate students in school psychology, school counselors, special educators, and administrators interested in collaboration. Emphasis is on direct and indirect support-service delivery in schools.

Prerequisite: Matriculation into the counseling, educational leadership, or school psychology program; or consent of department chair.

Offered: Fall.

CEP 683 - Practicum III: Advanced Counseling Skills (3)

Students extend and deepen their counseling skills. Audio and video resources are used. Students apply their skills in a supervised clinical setting for a minimum of five hours a week.

Prerequisite: Graduate status and CEP 539 (with a minimum grade of B) or consent of department chair.

Offered: Fall.

CEP 684 - Practicum IV: Advanced Clinical Interventions (3)

Students learn advanced interventions skills and how to develop measurable outcomes to improve the effectiveness of counseling. Students work 100 hours in a supervised clinical setting providing direct client service.

Prerequisite: Graduate status and CEP 683 (with a minimum grade of B).

Offered: Spring.

CEP 690 - Independent Study (3)

Research is conducted under the supervision of a faculty advisor.

Prerequisite: Matriculation into a C.A.G.S. program and consent of department chair.

Offered: As needed.

# CURR - Curriculum

CURR 130 - Work Experience Seminar (1)

Provides a framework through which youth service providers integrate course theory and work experiences with youth.

Prerequisite: Concurrent enrollment in PSYC 230, SWRK 324 and SWRK 326.

Offered: Fall, Spring, Summer.

CURR 232 - Foundational School Mathematics for Teachers (1)

Students will evaluate strengths and deficits in content areas assessed on entrance exams. Successful completion, ‘B’ or higher, will replace the Literacy test requirement for entrance to respective education programs.

Prerequisite: Basic Skills Math score must fall within the conditional range of scores. See FSEHD Admission Requirements.

Offered: Fall, Spring.

CURR 242 - Foundational English Language Arts for Teachers (1)

Students will evaluate strengths and deficits in content areas assessed on entrance exams. Successful completion, ‘B’ or higher, will replace the Literacy test requirement for entrance to respective education programs.

Prerequisite: Basic Skills Literacy score(s) must fall within the conditional range of scores. See FSEHD Admission Requirements.

Offered: Fall, Spring.

CURR 410 - Teaching World Languages in Elementary Education (4)

Major theories of children’s language development are examined. Students learn and practice foreign language teaching strategies, and observe and teach several classes in a field-based elementary school setting.

Prerequisite: Admission to program or consent of department chair.

Offered: Spring as needed.

CURR 501 - Digital Media Literacy (4)

Over two weeks, student will engage conceptual and practical tools to help them integrate media literacy and digital technology into K-16 classrooms. Specific attention to social justice perspectives on education.

Prerequisite: Graduate status or consent of department chair.

Offered: Summer.

CURR 505 - Learning Theory and Curriculum Research (3)

Students examine how learning theory informs various approaches to curriculum. Included are behavioral, cognitive, developmental, humanistic, and interactionist theories of learning.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring (odd years).

CURR 532 - Curriculum Theory and Research (3)

The rationale for curriculum construction is examined. Research in curriculum is reviewed as it pertains to the development of theory.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

CURR 558 - Internship in Curriculum I (2)

This is a 150-hour field-based experience under the supervision of a curriculum director and a faculty advisor.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

CURR 560 - Seminar in Curriculum (3)

Topics vary.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

# DANC - Dance

DANC 110 - Introductory Ballet (2)

Ballet technique and the classical tradition in dance are introduced through an intensive studio experience, related readings, and attendance at ballet performances. 4 contact hours.

Offered: Fall.

DANC 112 - Introductory Jazz (2)

The technique, rhythms, styles, and historical background of jazz dance are introduced through an intensive studio experience, related readings, and films. 4 contact hours.

Offered: Fall.

DANC 114 - Introductory Tap Dance (2)

The technique, style, and vocabulary of tap dance are introduced through studio experience, related readings, and films. Emphasis is on the development of a strong fundamental technique. 4 contact hours.

Offered: Fall (odd years).

DANC 116 - Beginner Modern Dance Technique (2)

Students focus on technical and artistic elements of expression including the fundamentals of technique, proper alignment and performance artistry in modern dance. This course may be taken twice for credit.

Prerequisite: For dance majors and minors or with consent of the instructor.

Offered: Fall

DANC 181 - Dance Company I (1)

This course is offered to all qualified students by audition. May be repeated for credit. 6 contact hours.

Prerequisite: Membership in the Rhode Island College Dance Company and consent of instructor.

Offered: Spring.

DANC 210 - Intermediate Ballet (2)

Intermediate ballet technique and the classical tradition are studied through studio experience, related readings, and ballet performances. Emphasis is on the refinement of technique and elements of performance. 4 contact hours.

Prerequisite: DANC 110.

Offered: Spring.

DANC 212 - Intermediate Jazz (2)

Intermediate jazz technique and the history of jazz dance are examined through studio experience, related readings, and films. Emphasis is on the refinement of technique and elements of performance. 4 contact hours.

Prerequisite: DANC 112.

Offered: Spring.

DANC 214 - Intermediate Tap Dance (2)

Intermediate tap technique and the history of tap dance are explored through studio experience, related readings, and films. Emphasis is on the refinement of technique and elements of performance. 4 contact hours.

Prerequisite: DANC 114.

Offered: Fall (even years).

DANC 215W - Contemporary Dance and Culture (4)

Students are introduced to the techniques, improvisation, and performance of modern dance, with a concentration on proper form and body analysis. Lecture emphasizes dance history, cultural dance, and dance in our society today. 5 contact hours. This is a Writing in the Discipline (WID) course.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

DANC 216 - Intermediate Modern Dance (2)

Intermediate modern dance technique is provided in a studio experience. Emphasis is on the refinement of technique and elements of performance. 4 contact hours.

Prerequisite: DANC 215 or DANC 215W.

Offered: Fall.

DANC 281 - Dance Company II (1)

This course is offered to all qualified students by audition. May be repeated for credit. 6 contact hours.

Prerequisite: Membership in the Rhode Island College Dance Company and consent of instructor.

Offered: Spring.

DANC 302 - Musical Resources for Dance ()

Study includes taking rhythmic dictation, composing rhythmic scores, and analyzing musical forms. Criteria are developed for the selection of music to support, supplement, or contrast with dance.

Prerequisite: DANC 215. or DANC 215W.

Offered: As needed

DANC 303 - Dance Production (3)

The fundamentals of technical production are studied. Emphasis is placed on scenic design for dance and the technical aspects of lighting design. A minimum of twenty hours of laboratory work in a production is required. Lecture and laboratory. 6 contact hours.

Prerequisite: DANC 181 (one year in dance company).

Offered: As needed.

DANC 304 - Choreography I (3)

Binary and ternary dance forms are reviewed. Rondo, theme and variations, sonata, and other forms are choreographed. Dance history is summarized and exemplary performing artists are introduced. 5 contact hours.

Prerequisite: Consent of instructor.

Offered: Fall (even years).

DANC 309W - Dance History (3)

The development of dance as a performing art in Europe, Russia, and America is examined. Attention is given to the cultural context of dance events. This is a Writing in the Discipline (WID) course.

Prerequisite: DANC 215 or DANC 215W, or consent of dance director.

Offered: Spring (odd years).

DANC 316 - Advanced Modern Dance (2)

Advanced modern dance technique is provided in a studio experience. Emphasis is on the refinement of technique and elements of performance through the mastery of complex movement sequences. 4 contact hours.

Prerequisite: DANC 216.

Offered: Spring (even years).

DANC 321 - Dance for Musical Theatre (3)

The performance of dance for musical theatre is studied in its theatrical context. Emphasis is placed on performance techniques and the characteristics of style. This course may be taken twice for credit. 6 contact hours.

Prerequisite: 9 credit hours of dance technique courses and consent of department chair.

Offered: Spring.

DANC 322 - Repertory Performance (3)

Performance and style are examined through repertory experience. New or existing dance works are prepared for formal and informal performances. 6 contact hours.

Prerequisite: 9 credit hours of dance technique courses and consent of department chair.

Offered: Fall (odd years).

DANC 324 - Improvisation/Performance (2)

Students refine their facility for generating dance as a spontaneous response to movement structures and various stimuli. Included are frequent informal and occasional formal performances. This course may be taken twice for credit. 4 contact hours.

Prerequisite: DANC 216.

Offered: As needed.

DANC 333 - Dance Studio Teaching and Styles (3)

Students are introduced to teaching in private dance studios, which involves creating lesson plans, generating choreography for recitals and competitive dance as well as basic dance studio protocols.

Prerequisite: DANC 110, DANC 112, and DANC 216 or consent of Director of Dance.

Offered: As needed.

DANC 343 - Anatomy and Kinesiology for the Dancer (3)

Students cover aspects of anatomy and kinesiology that apply to correct development of dance technique. Students learn about common dance injuries, their causes, and basic methods of care and rehabilitation.

Prerequisite: BIOL 108.

Offered: As needed.

DANC 360 - Seminar in Dance (3)

This course builds on the student's experiences in dance. Topics are announced in advance and allow the student to pursue investigations into select theories and problems.

Prerequisite: 6 credit hours of dance courses and consent of instructor.

Offered: As needed.

DANC 381 - Dance Company III (1)

This course is offered to all qualified students by audition. May be repeated for credit. 6 contact hours.

Prerequisite: Membership in the Rhode Island College Dance Company and consent of instructor.

Offered: Spring.

DANC 405 - Choreography II (3)

Dancers apply the fundamentals of choreography to create examples of preclassical and modern dance. These dances are presented in a demonstration workshop at the end of the semester.

Prerequisite: DANC 304.

Offered: As needed.

DANC 491 - Independent Study in Dance (1-3)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Demonstration of superior ability and initiative in previous dance courses; and consent of instructor, department chair, and dean.

Offered: As needed.

DANC 492 - Independent Performance in Dance (3)

The student, working with a faculty advisor, selects a specific form or style in dance to which the work is restricted. Evidence of performance is presented during the student choreography showcase.

Prerequisite: Demonstration of superior ability and initiative in previous dance courses; and consent of instructor, department chair, and dean.

Offered: As needed.

# DMS - Diagnostic Medical Sonography

DMS 300 - Introduction to Diagnostic Medical Sonography (1.5)

This course is designed to introduce students to diagnostic medical sonography, including sonographic principles and instrumentation, other imaging modalities and medical terminology.

Prerequisite: MEDI 201 or RADT 201, and admission into the diagnostic medical sonography concentration.

Offered: Fall.

DMS 301 - Abdominal Sonography I (1.5)

This course introduces the student to scanning lower extremity vascular sonography. The student then progresses to abdominal vasculature, neck sonography and sonography of the kidneys.

Prerequisite: Admission into the diagnostic medical sonography concentration.

Offered: Spring.

DMS 302 - Scan Lab I (1)

This Scan lab specifically introduces scanning techniques, scan protocols and procedures within the laboratory setting. 2 contact hours.

Prerequisite: DMS 300.

Offered: Spring.

DMS 303 - Abdominal Sonography II (1.5)

This course is designed to give the student an understanding of abdominal and small parts anatomy, physiology, pathophysiology, sonographic presentation, and the clinical presentation of multiple disease states.

Prerequisite: DMS 301.

Offered: Summer.

DMS 305 - Foundations of Diagnostic Medical Sonography (3)

Students are introduced to the Diagnostic Medical Sonography profession. Foundations and basic principles will be discussed.

Prerequisite: Acceptance into a Medical Imaging Clinical Program.

Offered: Fall.

DMS 306 - Abdominal and Small Parts Sonography (5)

Students learn in-depth pathophysiology of abdominal and small parts organs, including but not limited to the thyroid, parathyroid, prostate and scrotum. 7 contact hours.

Prerequisite: DMS 305.

Offered: Spring.

DMS 307 - Sonographic Principles and Instrumentation (3)

Imaging techniques that use high frequency sound production are introduced. Included is in-depth study of the characteristics of ultrasound and its interaction with human tissue.

Prerequisite: DMS 303.

Offered: Spring.

DMS 308 - Sonographic Principles and Instrumentation (4)

Physical principles and instrumentation of diagnostic ultrasound are covered. Students will study the physical principles of image formation, management of artifacts, evaluation of instrument performance, and safe scanning techniques.

Prerequisite: DMS 305.

Offered: Spring.

DMS 309 - Clinical Education I (3)

Students are prepared for entering the healthcare profession. The student will observe sonographic examinations and procedures as well as practice their individual scanning skills. 16 contact hours.

Prerequisite: DMS 305.

Offered: Spring.

DMS 310 - Clinical Practice I (6)

Students are introduced to clinical and practical experience in diagnostic medical imaging. They must demonstrate the structures of the abdomen and gravid and non-gravid female pelvis, using sonography under known conditions. 24 contact hours.

Prerequisite: Admission into the diagnostic medical sonography concentration.

Offered: Spring.

DMS 312 - Sonographic Women’s Imaging (4)

Students will obtain comprehensive understanding of women’s DMS imaging. Topics will focus on breast and gynecology health. Students will practice scanning ultrasound examinations with simulated phantom technology.

Prerequisite: DMS 305.

Offered: Summer

DMS 313 - Clinical Education II (5)

Students learn ultrasound procedures and examinations in clinical settings. This course prepares students to become independent functioning ultrasound technologists.  30 contact hours.

Prerequisite: DMS 309.

Offered: Summer.

DMS 330 - Clinical Practice II (8)

This is a continuation of DMS 310. Students perform sonographic examinations and learn to recognize normal and abnormal sonographic patterns in the abdomen, female pelvis, and fetus. 24 contact hours.

Prerequisite: DMS 310.

Offered: Summer.

DMS 333 - Abdominal Sonography III (1.5)

Students will learn abdominal sonography, including the pancreas and spleen. The student will also be introduced to MSK imaging and abdominal organ imaging.

Prerequisite: DMS 303.

Offered: Fall.

DMS 335 - Obstetrical and Gynecological Sonography III (1.5)

Students will learn third trimester anatomy and pathologies, fetal heart and brain and fetal thoracic pathologies. The student will be introduced to fetal echocardiography and 3D and 4D obstetrical sonography.

Prerequisite: DMS 306.

Offered: Fall.

DMS 403 - Abdominal Sonography IV (1.5)

Students will learn about scrotum, breast, abdomen wall and cavities and GI tract sonography. Contrast agents and their use in ultrasound and invasive procedures will also be covered.

Prerequisite: DMS 333.

Offered: Spring.

DMS 406 - Obstetrical and Gynecological Sonography IV (1.5)

Students will learn sonography of post-partum uterus and interventional obstetrics/gynecology with sonographic guidance. Pediatric sonography, and preparation for the ARDMS exam are included.

Prerequisite: DMS 335.

Offered: Spring.

DMS 410 - Clinical Practice III (8)

This is a continuation of DMS 330. 25.5 contact hours.

Prerequisite: DMS 330.

Offered: Fall.

DMS 412 - Scan Lab III (1)

Topics of this course include pancreatic and splenic sonography, and MSK of the shoulder. 2 contact hours.

Prerequisite: DMS 312.

Offered: Fall.

DMS 422 - Scan Lab IV (1)

Topics of this course include testes, breast and carotid artery imaging. 2 contact hours.

Prerequisite: DMS 312.

Offered: Spring.

DMS 430 - Clinical Practice IV (6)

This is a continuation of DMS 410. 18 contact hours.

Prerequisite: DMS 410.

Offered: Spring.

DMS 431 - Vascular Technology (4)

Students learn about vascular techniques in DMS. Students learn about venous and arterial anatomy, physiology, pathology and imaging protocols. Advanced testing techniques and interventional procedures are included.  6 contact hours.

Prerequisite: DMS 313

Offered: Fall.

DMS 432 - Obstetrical Sonography (4)

Students will learn normal and pathologic obstetrical imaging. This course also includes ethics, congenital conditions, complications, fetal surveying and assessment.

Prerequisite: DMS 313.

Offered: Fall.

DMS 433 - Clinical Education III (4)

Students learn advanced ultrasound procedures and examinations in clinical settings. This course prepares students to become independent functioning ultrasound technologists. 24 contact hours.

Prerequisite: DMS 313.

Offered: Fall.

DMS 434 - Registry Review (3)

Students of diagnostic medical sonography are prepared to sit for their registry examinations in Abdomen and Ob/GYN sonography.

Prerequisite: DMS 433.

Offered: Spring.

DMS 435 - Advanced Procedures in DMS (3)

Students are educated on a variety of advanced sonographic procedures and examinations. Topics include emerging technologies, sonographic imaging in pediatrics, musculoskeletal, contrast-enhanced imaging and doppler analysis.

Prerequisite: DMS 433

Offered: Spring.

DMS 436 - Clinical Education IV (4)

Students practice advanced ultrasound procedures and examinations in various clinical settings on all patient types. This course prepares students to become independent functioning ultrasound technologists.  24 contact hours.

Prerequisite: DMS 433.

Offered: Spring.

# DIS - Disability Studies

DIS 100 - Self-Advocacy and Beyond (2)

Person-centered planning is the basis of understanding college: the campus, the decisions required to engage in college and planning for after college.

Prerequisite: Consent of department chair.

Offered: Summer.

DIS 101 - Introduction to Vocational Exploration (3)

Understanding diversity of careers is the basis of this course. Students will gain an understanding of market data and the skills needed for different career choices.

Prerequisite: DIS 100.

Offered: Fall.

DIS 102 - Campus Vocational Experience I (3)

Students apply self-determination skills to identify potential campus employment. Students use job supports and effective communication to develop skills related to their initial campus employment experience.

Prerequisite: DIS 101.

Offered: Spring.

DIS 201 - Campus/Community Vocational Experience II (3)

Students extend their job experience to include employment into a new vocational area. Students expand their use of job supports and effective communication in their second campus/community experience.

Prerequisite: DIS 102.

Offered: Fall.

DIS 202 - Community Vocational Internship (4)

Students complete their final job experience in their local community. Job skills are expanded into this environment and documented on student resumes.

Prerequisite: DIS 201.

Offered: Spring.

DIS 451 - Introduction to Transition to Adult Life (3)

Students will gain knowledge of the historical and contextual factors that impact transition for youth with exceptionalities. State and federal transition laws and roles of all stakeholders will be reviewed.

Prerequisite: Admission to the Feinstein School of Education and Human Development, Senior status (90 credit hours successfully completed) or consent of department chair.

Offered: Fall.

DIS 501 - Study of Disabilities in the USA (3)

Expand understanding of perceptions of individuals with a disability within the United States over time.

Prerequisite: Graduate status.

Offered: Fall.

DIS 538 - Fieldwork in Disability Studies (1)

Students will engage in research, team collaboration, family support and/or product development related to individuals with disabilities.

Prerequisite: Graduate status and Sherlock Center Trainee or consent of department chair.

Offered: Fall, Spring.

DIS 551 - Starting the Transition Journey (4)

Students explore self-determination, person-centered planning, transition assessment and the development of appropriate academic, employment and independent living goals and services for students with exceptionalities ages 14 – 16.

Prerequisite: DIS 451, Admission to the C.G.S. in Transition to Adult life or consent of department chair

Offered: Spring.

DIS 552 - Transition in the Middle Years (4)

Students will identify the systems, supports, services and practices in transition for students ages 17-18 with exceptionalities; Self-determination, person-centered planning, transition assessment will be examined.

Prerequisite: DIS 551 or consent of department chair.

Offered: Fall.

DIS 553 - Completing the Transition Journey (4)

Preparing young adults with exceptionalities (ages 19-22) to access adult supports will include a comprehensive review of the timelines and support agency involvement.

Prerequisite: DIS 552 or consent of department chair.

Offered: Spring.

DIS 561 - Interdisciplinary Seminar 1: Foundations (1)

This seminar will provide a forum for discussing issues pertinent to interdisciplinary practice. The foundations of interdisciplinary team decision-making and interdisciplinary service provision will be explored.

Prerequisite: Graduate status and Sherlock Center trainee or consent of department chair.

Offered: Fall (odd years).

DIS 562 - Interdisciplinary Seminar 2: Legal/Legislative Influences (1)

This seminar will provide forum for examining how law and legislation influence the lives of individuals with disabilities. The role of current and future leadership in law and legislative change will be discussed.

Prerequisite: Graduate status and Sherlock Center trainee or consent of department chair, DIS 561.

Offered: Spring (even years).

DIS 563 - Interdisciplinary Seminar 3: Leadership (1)

This seminar will provide a forum for trainees to develop leadership skills in disability studies. Participants will develop skills in presentations around disability study.

Prerequisite: Graduate status and Sherlock Center trainee or consent of department chair, DIS 561 and DIS 562.

Offered: Fall (even years).

DIS 564 - Interdisciplinary Seminar 4: Funding (1)

This seminar extends the opportunities for trainees to expand leadership skills in disability studies. Participants will develop skills in grant development around disability studies.

Prerequisite: Graduate status and Sherlock Center trainee or consent of department chair, DIS 561, DIS 562 and DIS 563.

Offered: Spring (odd years).

# ECED - Early Childhood Education

ECED 201 - Introduction to Early Childhood Education (3)

Using a social justice framework, students study theories of learning and models of early childhood education to understand components of curricula including content, process, teaching, facilitating and contexts of learning.

Offered: Fall, Spring.

ECED 202 - Early Childhood Development, Birth to Eight (3)

This course examines the characteristics and needs of young children, birth through eight, including the stages and multiple influences on early development and learning, using historical and culturally diverse perspectives. (Formerly ECED 302.)

Prerequisite: ECED 290 and admission to the early childhood education teacher preparation program, or consent of department chair.

Offered: Fall.

ECED 232 - Building Family, School and Community Partnerships (3)

Students examine methods of building respectful, reciprocal relationships that empower and support families in their children's development. Students also come to understand the complexities of family and community characteristics. (Formerly ECED 332.)

Prerequisite: Admission to a FSEHD Early Childhood Education program, or consent of department chair.

Offered: Spring.

ECED 290 - A Cross-Disciplinary Approach to ECED (3)

The application of social work principles to the field of early care and education is explored, with emphasis on a systems-based approach to working with children and families.

Offered: Fall, Spring.

ECED 301 - Developmental Approaches to Teaching and Learning (3)

Developmentally appropriate approaches and teaching models for all early childhood education students, including atypical/exceptional, are learned through supervised practice. Observations and a multicultural/urban practicum are required. 5 contact hours.

Prerequisite: Minimum GPA of 2.50 in all previous courses and admission to the early childhood education teacher preparation program, or consent of department chair.

Offered: Fall.

ECED 303 - Creating an Early Childhood Learning Community (3)

This course explores principles of care and education in the early childhood environment, including the importance of creating a community through relationships, physical space, and organization of time.

Prerequisite: CEP 215; ECED 301, ECED 202 or ECED 302; SPED 301; and admission to the early childhood education teacher preparation program.

Offered: Spring.

ECED 305 - Intentional Teaching in the Early Years (4)

The practicum course introduces developmentally effective approaches for teaching/learning in the early years (3-5). ECED candidates observe, evaluate, design, implement curriculum and environments supportive of children’s development and learning.

Prerequisite: Admission to the FSEHD EC Program; or consent of department chair; taken concurrently with ECED 326.

Offered: Spring.

ECED 310 - Contextualizing Infant Toddler Education (3)

Students explore effective tools emphasizing positive attention, approval and affection in infant-toddler care/development, and apply a structured caregiving model to current trends and theories to enhance development across developmental domains.

Prerequisite: Admission to the FSEHD ECED BS Concentration in Birth to Three, or by permission of department chair.

Offered: Fall.

ECED 312 - Infant Toddler Cognitive Development and Learning (3)

Candidates’ study the cognitive development of infants/toddlers and the role of primary caregiving relationships in supporting this development. Using theory, research and reflection candidates’ strengthen their own practices.

Prerequisite: Admission to the FSEHD ECED BS Concentration in Birth to Three, or by permission of department chair.

Offered: Fall.

ECED 314 - Infant Toddler Social/Emotional Development and Learning (3)

Candidates’ study the social-emotional development of infants/toddlers and the role of primary caregiving relationships in supporting this development. Using theory, research and reflection candidates’ strengthen their own practices.

Prerequisite: Completion of ECED 202 or ECED 302, ECED 310, ECED 312 and SPED 305 (B-or higher) ) or by permission of Department Chair.

Offered: Spring

ECED 321 - Mathematics: Methods and Assessment (4)

ECED Candidates develop an understanding of essential content and effective data-driven teaching approaches for mathematics in early childhood (K-2) through an in-depth practicum experience that utilizes observation, reflection and co-teaching.

Prerequisite: Any mathematics general education distribution; ECED 305; ECED 322; ECED 326; ECED 328; (minimum B-) or consent of department chair; taken concurrently with ECED 324.

Offered: Fall.

ECED 322 - English Language Arts: Methods and Assessment I (4)

ECED candidates learn evidence-based and equitable practices enhancing early language and literacy development of children, Birth-5. Students implement observation and assessment protocols to inform curriculum development during a practicum experience.

Prerequisite: ECED 305; ECED 326 (minimum grade of B-) or consent of department chair; concurrent with ECED 328.

Offered: Spring.

ECED 324 - English Language Arts: Methods and Assessment II (4)

Students explore evidence-based curriculum, instruction and assessment that promote literacy and language skills for all children through an in-depth practicum experience that utilizes observation, reflection and co-teaching.

Prerequisite: ECED 305; ECED 322; ECED 326; ECED 328 (minimum B-) or consent of department chair; taken concurrently with ECED 321.

Offered: Fall.

ECED 326 - Social Studies and Social/Emotional Methods (4)

ECED candidates will understand the importance of social competence; and the connectedness of being socially competent to social studies through an in-depth practicum experience that utilizes observation, reflection and co-teaching.

Prerequisite: Admission to the FSEHD EC Program; or consent of department chair; taken concurrently with ECED 305.

Offered: Spring.

ECED 328 - Science and Technology Methods (4)

ECED Candidates develop an understanding of essential content and effective teaching approaches for science & technology in early childhood (K-2) through in-depth practicum experience that utilizes observation, reflection and co-teaching.)

Prerequisite: ECED 305; ECED 326 (minimum grade of B-), or consent of department chair; taken concurrently with ECED 322.

Offered: Spring.

ECED 410 - Infant Toddler Field Experience I (4)

In this course candidates will engage in a competency-based field experience designed to support the application and practice of content within the Birth to Three Concentration.

Prerequisite: Completion of ECED 310, ECED 314, and SPED 305 (B- or higher) ) or by permission of Department Chair.

Offered: Spring.

ECED 412 - Infant Toddler Field Experience II (4)

In this course candidates will engage in a competency-based field experience designed to support the application and practice of content within the Birth to Three Concentration.

Prerequisite: Completion of ECED 202, ECED 232, ECED 310, ECED 312, ECED 314, ECED 410, and SPED 305 (B- or higher).

Offered: Fall.

ECED 416 - Infant Toddler Language Development and Learning (3)

Students explore language development for infants/toddlers including theoretical perspectives, the role of caregiving relationships and environmental, cultural and socioeconomic influences.

Prerequisite: Completion of ECED 202, ECED 232, ECED 310, ECED 312, ECED 314, ECED 410, and SPED 305 (B- or higher).

Offered: Fall.

ECED 419 - Early Care and Education, Birth to Three Years (3)

Students create and maintain positive learning activities for infant-toddler group care. 5 contact hours.

Prerequisite: Prior or concurrent enrollment in ECED 301, with minimum grade of B-; admission to the early childhood education teacher preparation program; or consent of department chair.

Offered: Fall.

ECED 420 - Mathematics, Prekindergarten through Second Grade (3)

Mathematics education in prekindergarten through second grade is examined. Also explored are the development of appropriate teaching/learning strategies, content, and materials related to teaching all young children. Practicum required. 5 contact hours.

Prerequisite: ECED 301 or equivalent and ECED 419, each with minimum grade of B-; MATH 143 and MATH 144, each with minimum grade of C; admission to the early childhood education teacher preparation program; or consent of department chair.

Offered: Spring.

ECED 423 - Developmental Literacy and the Language Arts I (4)

Developmentally appropriate methods and materials for promoting literacy and language skills, strategies, and dispositions for young children are explored, including children's literature. Practicum: kindergarten and grade one. 6 contact hours.

Prerequisite: ECED 301; ECED 419, with minimum grade of B-; prior or concurrent enrollment in ECED 420, with minimum grade of B-; admission to the early childhood education teacher preparation program; or consent of department chair.

Offered: Spring.

ECED 425 - Developmental Literacy and the Language Arts II (4)

Teacher candidates work with infants, toddlers, and preschoolers from diverse populations. Study includes managing classroom literacy programs through grade two. Practicum: infants through grade two. 6 contact hours.

Prerequisite: ECED 301; ECED 419, ECED 420, ECED 423, each with minimum grade of B-; concurrent enrollment in ECED 429; admission to the early childhood education teacher preparation program; or consent of department chair.

Offered: Fall.

ECED 429 - Early Childhood Social Studies and Science (4)

Students use developmentally appropriate methods, content, and materials to establish positive learning environments. Practicum: prekindergarten and grade one. 7 contact hours.

Prerequisite: ECED 301 or equivalent, with minimum grade of B-; ECED 419, ECED 420, ECED 423; prior or concurrent enrollment in ECED 425; admission to the early childhood education teacher preparation program; or consent of department chair.

Offered: Fall.

ECED 439 - Student Teaching: Early Childhood Settings I (9)

Teacher candidates focus on refining effective teaching practices within an early childhood setting; developing deep understanding of context, planning, preparation and professionalism.

Prerequisite: Concurrent enrollment in ECED 469 and satisfactory completion of all major and professional courses.

Offered: Fall.

ECED 440 - Building Collaborative Relationships Through Coaching (3)

Application of the coaching model to build capacity and support children, families and practitioners in a variety of early childhood settings will be explored; along with principles of adult learning.

Prerequisite: Admission to the FSEHD ECED Program/Concentration Community Programs. Completion of ECED 202 and ECED 232.

Offered: Spring.

ECED 441 - Student Teaching: Early Childhood Settings II (9)

Teacher candidates further refine effective teaching practices within an early childhood setting; developing deep understanding of educational environment, instruction and delivery.

Prerequisite: Concurrent enrollment in ECED 470 and satisfactory completion of all major and professional courses.

Offered: Spring.

ECED 449 - Early Childhood Community Program Internship (6)

In this culminating experience, candidates complete in an infant-toddler program, preschool program, or community-based program under the supervision of a cooperating teacher/supervisor and college supervisor. Graded S/U.

Prerequisite: Completion of all program major requirements.

Offered: Spring.

ECED 469W - Best Practices: Early Childhood Settings I (3)

Teacher candidates analyze district and school level policies and data, collaborations among school personnel, families, community agencies and specific school curriculum in order to develop profession-ready early childhood teaching skills. This is a Writing in the Discipline (WID) course.

Prerequisite: Concurrent enrollment in ECED 439.

Offered: Fall.

ECED 470 - Best Practices: Early Childhood Settings II (3)

Teacher candidates analyze the teaching profession, and examine current national, state and local issues and practices in early childhood teaching in order to contextualize their place in the larger field.

Prerequisite: Concurrent Enrollment in ECED 441.

Offered: Spring.

ECED 479 - Best Practices in Community Settings (3)

Issues and practices of care and education of infants/toddlers are analyzed to understand how collaborations among programs, families, community agencies and assessment, in high quality infant/toddler care and education operate.

Prerequisite: Admission to the FSEHD ECED Program/Concentration, Community Programs and SPED 415, or admission to the FSEHD ECED Program/Concentration, Birth to Three and ECED 416.

Offered: Spring.

ECED 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ECED 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, program director and dean, and admission to the early childhood education honors program.

Offered: As needed.

ECED 492 - Independent Study II (3)

This course continues the development of research or activity begun in ECED 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: ECED 491 and consent of instructor, program director and dean.

Offered: As needed.

ECED 502 - Curriculum, Developmental Play, and Programs (3)

Development and content of curriculum and trends in research for early care and education through primary grades are examined.

Prerequisite: Graduate status or consent of instructor.

Offered: Fall.

ECED 503 - Infants and Toddlers in Early Care and Education Programs (3)

Components of quality group-care situations for infants and toddlers are analyzed. Topics include professional responsibilities and health and safety routines.

Prerequisite: Graduate status or consent of instructor.

Offered: Fall.

ECED 505 - Early Childhood Education and Development Issues (3)

This course fosters an understanding of various theoretical perspectives, issues of young children's educational, physical, social, emotional, and cognitive development, focusing on typical and atypical growth, multicultural contexts and characteristics.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

ECED 509 - Emergent Literacy—Infants through Grade Two (3)

Students learn how to help young children acquire an interest in reading and learn the necessary concepts concerning print and books.

Prerequisite: Graduate status or consent of instructor.

Offered: As needed.

ECED 512 - Working with Families: Building Home-School Partnerships (3)

Students develop an understanding of parenting, of working with families within diverse contexts, and of building school, community, and family partnerships. Relevant National Board for Professional Teaching standards are reviewed.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

ECED 661 - Directing Early Care and Education Programs (3)

Quality day care and preschool programs are analyzed and the administrative functions necessary to maintain them.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

ECED 662 - Seminar in Early Childhood Education Research (3)

Students gain increased professional knowledge and competencies in finding, assessing, applying, and presenting data related to selected major topics in the field of early childhood education.

Prerequisite: Graduate status or consent of instructor.

Offered: Fall.

# ECON - Economics

ECON 200 - Introduction to Economics (4)

This course fosters an understanding of the market economy and contemporary economic problems, such as economic growth and inflation, unemployment, income distribution, and the role of government. Students cannot receive credit for ECON 200 if they have successfully completed or are currently enrolled in ECON 214.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

ECON 214 - Principles of Microeconomics (3)

Microeconomics is introduced, including such areas of decision making as individual demand theory, cost theory, production theory, and the structure of markets.

Prerequisite: Completion of College Mathematics Competency.

Offered: Fall, Spring, Summer.

ECON 215 - Principles of Macroeconomics (3)

The U.S. economy as a whole is considered and problems of inflation and recession are explored by examining aggregate demand, aggregate supply, national product and income, and the influence of money and interest rates on the economy.

Prerequisite: Completion of College Mathematics Competency.

Offered: Fall, Spring, Summer.

ECON 314 - Intermediate Microeconomic Theory and Applications (4)

Theoretical foundations covered in ECON 214 are expanded upon and myriad applications of these theories are developed, using graphical and mathematical techniques. The role of microeconomics in managerial decision making is also explored.

Prerequisite: ECON 214, ECON 215 and MATH 177.

Offered: Fall.

ECON 315 - Intermediate Macroeconomic Theory and Analysis (4)

Macroeconomic models are used to analyze economic growth, unemployment, and inflation. Also examined are the effectiveness of fiscal and monetary policies, using models depicting the interactions of product, resource, and financial markets.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: Spring.

ECON 331 - Topics in Global Economics (4)

The course will introduce students to the basic operation of various economies while presenting facts of development and trade policies that are relevant for the study of the world economy.

Prerequisite: ECON 200 and Completion of College Math Competency, or ECON 214, or ECON 215.

Offered: Annually (even years).

ECON 335 - Economics of Race and Gender (4)

This course emphasizes study of both non-labor and labor market outcomes, and analysis of government policies, regulations, race and gender equality, and international comparisons on racial-ethnic and gender.

Prerequisite: ECON 200 and Completion of College Math Competency or ECON 214.

Offered: Annually (even years).

ECON 337 - Economics of Climate Change and Sustainability (4)

Students are introduced to the economic causes of climate change. A global perspective combined with emphasis on the role of uncertainty and sustainable development is used to explore policy responses.

Prerequisite: ECON 200 and Completion of College Math Competency, or ECON 214.

Offered: Annually (odd years).

ECON 390 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ECON 421 - International Economics (4)

The theory of international trade is analyzed. Topics include the benefits of trade and the effects of tariffs, quotas, and customs unions. Also covered are the theories of international monetary relations, capital flows, and exchange rates.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 422 - Economics of Developing Countries (4)

The characteristics of developing countries and the process of economic development are examined. Topics include poverty, inequality, unemployment, capital formation in industry and agriculture, and the effects of foreign trade and aid.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 431 - Labor Economics (4)

The structures and operations of human resource markets are analyzed, including pricing and allocation of labor resources, wage differentials, income distribution, discrimination, and unemployment.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 433 - Economics of Government (4)

The role of the public sector in the United States and its effect on the economy are studied. Discussion includes the impact of federal, state, and local government expenditure and revenue.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 435 - Urban Economics (4)

Economic analysis is applied to the development and problems of urban areas. Urban issues, such as poverty, housing, and transportation, are examined and the market forces that determine why and where urban areas develop.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 436 - Industrial Organization and Market Structure (4)

The economics of industrial organization and the organization of firms and industries are analyzed using microeconomic theories and empirical data. Public policy issues are assessed, including antitrust and regulatory mechanisms.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 437 - Environmental Economics (4)

Focus is on current environmental problems and policies. Topics include valuing the environment, approaches to controlling local and regional air pollution, energy policy, climate change, global warming, and sustainable economic growth.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 449W - Introduction to Econometrics (4)

Quantitative methods used in testing theoretical propositions in economics and business are presented. Emphasis is on the use of regression, time-series models, and other econometric methods. Lecture and computer laboratory. This is a Writing in the Discipline (WID) course.

Prerequisite: ECON 214, ECON 215; MATH 248.

Offered: Fall, Spring.

ECON 462W - Seminar in Economic Research (4)

Students integrate economic literature, theory, data and empirical methodologies, write, and present a research paper in the style of a journal article.This is a Writing in the Discipline (WID) course.

Prerequisite: : ECON 314, ECON 449 or ECON 449W, and one additional economics course at the 400-level.

Offered: Spring.

ECON 467 - Directed Internship in Economics (4)

Students are assigned to a business, government, industrial, or a not-for-profit organization and supervised by a mentor. A two-hour biweekly seminar is included.

Prerequisite: Junior standing, a major or minor in a School of Management program and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

ECON 490 - Independent Study in Economics (4)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ECON 491 - Independent Study I (4)

This course emphasizes the development of research for students admitted to the economics honors program. The research topic is selected and conducted under the supervision of a faculty advisor.

Prerequisite: Admission to the economics honors program and consent of instructor, department chair and dean.

Offered: As needed.

ECON 492 - Independent Study II (4)

This course continues the development of research begun in ECON 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: ECON 491 and consent of instructor, department chair and dean.

Offered: As needed.

# EDC - Education

EDC 540 - Teaching of Writing: Practice and Inquiry (3)

Students will renew their identities as writers and teachers of writing by learning and implementing progressive and critical theories and practices of teaching writing.

Prerequisite: Graduate status, acceptance in the Rhode Island Writing Project (RIWP) Summer Institute and consent of the RIC site director for the RIWP.

Offered: Summer.

EDC 661 - Language and Thinking in Schools (3)

Topics of language and thinking are considered broadly as they relate both theoretically and practically to curriculum in schools.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 662 - Writing for Presentations and Publications (3)

With peers, students will develop an academic writing practice through writing, reading and constructively critiquing academic texts. Final project options include an academic manuscript, presentation or reflective portfolio.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status and permission of instructor.

Offered: As needed.

EDC 664 - Social Justice in Higher Education (3)

This course provides a broad overview of historical and contemporary issues of social justice in higher education.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 670 - Theory Construction in the Social Sciences (3)

Students will construct an original theoretical framework in their area of specialization, informed by contemporary issues and trends in educational and social science theory.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 681 - Culture and Discourse in Education (3)

Learning and teaching are examined in terms of culture and discourse in social activity. Consideration is given to formal and informal activity settings and to theories and methods of research.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 682 - Discourse Analysis in Education Research (3)

The analysis of discourse in education research is examined and practiced in this course. Students conduct various analyses of discourse samples and explore a variety of analytic research frameworks.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 684 - Data Analysis: A Hands-On Approach (3)

Students will analyze data using three specific qualitative methodologies, noting that each of these methodologies offers a unique lens on phenomena.

Prerequisite: Admission to joint URI/RIC Ph.D. in Education Program or graduate status with permission of instructor.

Offered: As needed.

EDC 685 - Survey Design (3)

Principles, theories, techniques and applications for developing survey questionnaires and conducting survey research in education; developing questions; constructing instruments; implementing surveys; and reducing coverage and sampling errors.

Prerequisite: Graduate status, research methods (EDP 613 or equivalent), research design (EDP 623 or equivalent) and permission of instructor.

Offered: As needed.

# EDP - Education Doctoral Program

EDP 600 - Reading and Writing for Doctoral Studies (3)

Students develop and practice academic reading, writing, and thinking skills involved in professional practices of education research and publishing communities. Course emphasizes scholarly identity and writing cogent literature reviews.

Prerequisite: Admission to the URI/RIC Joint Ph. D. Program in Education.

Offered: Fall.

EDP 601 - First Year ProSeminar for Ph.D. in Education (3)

Students are introduced to educational research paradigms and related areas of program faculty expertise. Course focuses on engaging in academic conversations and multiple ways to address research problems in education.

Prerequisite: Current enrollment in the PhD Program in Education; or permission of instructor.

Offered: Fall.

EDP 610 - Contemporary Issues in Educational Inquiry (3)

Issues and problems are presented related to the philosophical and historical aspects of educational thought and the role of the school in society. Emphasis is on empirical analysis of classroom settings.

Prerequisite: Current enrollment in the PhD Program in Education.

Offered: Fall.

EDP 611 - Issues and Problems in Educational Inquiry (3)

Issues and problems are presented related to the philosophical and historical aspects of educational thought and the role of the school in society. Emphasis is on empirical analysis of classroom settings.

Prerequisite: Current enrollment in the Ph. D. Program in Education; or permission of instructor

Offered: Spring.

EDP 612 - Qualitative Research Methods in Education (3)

Qualitative methods of educational research, including terminology, historical development, assumptions, and models of inquiry, are examined.

Prerequisite: Current enrollment in the Ph.D. Program in Education; or permission of instructor.

Offered: Fall.

EDP 613 - Introduction to Quantitative Research (4)

Educational research data are collected, quantitatively analyzed and interpreted. Applications of the general linear model to a variety of research designs and analytic strategies are emphasized.

Prerequisite: EDP 600, 601, 623, and EDC 555 (or comparable course in introductory statistics); or permission of instructor.

Offered: Spring.

EDP 620 - Contemporary Issues in Human Development, Learning, & Teaching (3)

Issues and problems related to human development, curriculum, teaching, and learning are examined, with emphasis on the ways of gathering and evaluating evidence about school and curricula effectiveness.

Prerequisite: EDP 600, EDP 601 or permission of instructor.

Offered: Fall.

EDP 621 - Issues in Human Development, Learning, & Teaching (3)

Issues and problems related to human development, curriculum, teaching, and learning are examined, with emphasis on the ways of gathering and evaluating evidence about school and curricula effectiveness.

Prerequisite: Current enrollment in the PhD in Education program.

Offered: Spring.

EDP 622 - Community Service Learning (2)

Focusing on the school, students examine theory and define problems related to community service and service learning.

Prerequisite: Prior or concurrent enrollment in EDP 600, 601, or permission of instructor.

Offered: Spring.

EDP 623 - Research Design (3)

Students develop problem statements, research questions, hypotheses, and literature reviews, and identify appropriate methodology (qualitative, quantitative, mixed methods).

Prerequisite: EDP 600, 601, 612, and EDC 555 (or comparable course in introductory statistics); or permission of instructor

Offered: Fall.

EDP 630 - Issues in Educational Leadership Policy and Analysis I (3)

Issues and problems are presented concerning the educational applications of organizational theory, leadership theory, and policy analysis as they relate to district, statewide, and/or regional educational offices and agencies.

Prerequisite: Prior or concurrent enrollment in EDP 600, 601, or permission of instructor.

Offered: Fall.

EDP 631 - Issues in Educational Leadership Policy and Analysis II (3)

Issues and problems are presented concerning the educational applications of organizational theory, leadership theory, and policy analysis as they relate to district, statewide, and/or regional educational offices and agencies.

Prerequisite: Prior or concurrent enrollment in EDP 600, 601, or permission of instructor.

Offered: Spring.

EDP 641 - Doctoral Dissertation Research Seminar (1)

Second and third year students research questions and empirical designs and present them in biweekly forums. Discussion and feedback refine their research plans. Graded S, U.

Prerequisite: Admission to the Ph.D. in education program.

Offered: Fall, Spring.

EDP 692-693 - Directed Readings and Research Problems (1-3)

Students undertake directed readings and advanced research work under the supervision of their major instructor.

Prerequisite: EDP 600, 601 and permission of instructor; or permission of co-directors of PhD program in education and instructor.

Offered: As needed.

EDP 699 - Doctoral Dissertation Research (12)

Students conduct a major research project and write a dissertation under the direction of the instructor. A minimum of 12 credit hours in this course is required. Graded S, U.

Prerequisite: Admission to the Ph.D. in education program and consent of major instructor and RIC co-director.

Offered: As needed.

# LEAD - Educational Leadership

LEAD 500 - Developing Leaders for Learning (3)

Effective leadership skills and dispositions are examined. Emphasis is on understanding human learning processes, developing an educational vision, and becoming a reflective leader. The role of values in leadership is also introduced.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

LEAD 501 - Developing Inquiry for Reflective Leadership (1)

The roles of critical inquiry, research, and evaluation in reflective leadership are explored. A field research project that focuses on school system structures and processes is required.

Prerequisite: Admission to the M.Ed. in educational leadership program and concurrent enrollment in both LEAD 505 and LEAD 511, or consent of department chair.

Offered: Spring.

LEAD 502 - Building Connections: External Contexts of Leadership (3)

Students explore methods of communicating with and influencing decision makers outside the school community to promote equitable access in learning. Emphasis is on building sociopolitical and fiscal resources to support learning.

Prerequisite: Admission to the M.Ed. in educational leadership program, LEAD 500, and concurrent enrollment in LEAD 503.

Offered: Spring.

LEAD 503 - Building Connections in Diverse Contexts (1)

Students develop skill in communication, organization, and collaboration in diverse contexts. A fifty-hour field experience in an urban agency, or in a family- or youth-serving agency or school, is required. Performance-based assessments are expected.

Prerequisite: Admission to the M.Ed. in educational leadership program and concurrent enrollment in LEAD 502.

Offered: Spring.

LEAD 504 - Leading Learning I: Planning, Instruction, Assessment (4)

Students develop skills and dispositions needed for instructional and transformational leadership. Emphasis is on articulating an equitable vision for learning through critical reflection and on advocating data-based decision making and accountability.

Prerequisite: Graduate status and concurrent enrollment in LEAD 500.

Offered: Fall.

LEAD 505 - Leading Learning II: Collaboration, Supervision, Technology (2)

Students enact an equitable educational platform for learning characterized by collaborative instructional teams, effective supervision, and systematic monitoring of learning outcomes. The role of information technology is examined.

Prerequisite: Graduate status, LEAD 504 and concurrent enrollment in LEAD 511.

Offered: Spring.

LEAD 506 - Creating Learning Structures: Equity, Law, Practice (4)

Policy making and legislation at the local, state, and federal levels to advance learning are reviewed. Emphasis is on creating and managing structures for safe, equitable, and effective learning organizations.

Prerequisite: Graduate status and LEAD 505.

Offered: Summer.

LEAD 507 - Leading Change I: Challenges, Capacity, Transformation (4)

Models, strategies, and research on change and conflict resolution to improve school culture are examined. Emphasis is on the use of problem-framing, outcome monitoring, and data analysis in building capacity.

Prerequisite: Graduate status and LEAD 506.

Offered: Fall.

LEAD 508 - Leading Change II: Research, Accountability, Ethics (2)

This course synthesizes the research, examines ethical practice, and promotes individual and group reflective practice for leading change. Accountability through critical inquiry and evidence-based decision making is emphasized.

Prerequisite: Graduate status, LEAD 507 and concurrent enrollment in LEAD 512.

Offered: Spring.

LEAD 511 - Leadership Internship I (2)

This initial 150-hour, school-based experience nurtures entry-level competencies in promoting positive school culture and best practice for leading learning. Competency-focused work samples and dispositional assessments are expected.

Prerequisite: Graduate status and concurrent enrollment in LEAD 505.

Offered: Spring.

LEAD 512 - Leadership Internship II (2)

This final 150-hour, school-based experience focuses on consolidating entry-level competencies in promoting positive school culture and leading change. Submission of a competency-focused performance-based portfolio is required.

Prerequisite: Graduate status and concurrent enrollment in LEAD 508.

Offered: Spring.

LEAD 522 - Classroom to Courtroom (3)

Educators develop a mock trial to highlight the consequences for youth charged with serious legal offenses.

Prerequisite: Graduate status.

Offered: Summer.

LEAD 530 - Instructional Leadership Foundation Seminar (2)

An overview is given of instructional leadership theories and research. Students participate in self-assessment activities, using information for setting strategic goals for their own development while pursuing the LEAD-IL goals.

Prerequisite: Graduate status and concurrent enrollment in both LEAD 504 and LEAD 531.

Offered: Fall.

LEAD 531 - Instructional Leaders as Coaches (2)

Core beliefs and guiding principles are reviewed concerning instructional coaching, providing content, modeling segments, and tools to assist instructional leaders as they support the professional growth of teachers.

Prerequisite: Graduate status and concurrent enrollment in both LEAD 504 and LEAD 530.

Offered: Fall.

LEAD 532 - Instructional Leader Internship I (2)

Students participate in a supervised 150-hour teacher leader internship focused on coaching.

Prerequisite: Admission to the M.Ed. in instructional leadership program; completion of LEAD 504, LEAD 530, and LEAD 531.

Offered: Spring.

LEAD 533 - Instructional Leader Seminar I: Leading Change (2)

Students participate in an integrating leadership experience to link theoretical concepts, models, and process of leadership with the purpose of creating change and analyzing its resulting outcomes.

Prerequisite: Admission to the M.Ed. in instructional leadership program and concurrent enrollment in LEAD 532.

Offered: Spring.

LEAD 534 - Instructional Leader Internship II (2)

Students participate in a supervised 150-hour instructional leader internship.

Prerequisite: Admission to the M.Ed. in instructional leadership program, completion of LEAD 532 and LEAD 533, and concurrent enrollment in LEAD 535.

Offered: Fall.

LEAD 535 - Instructional Leader Seminar II: Data Driven Decision Making (2)

Students focus on integrating entry-level competencies on data-driven decision making, instructional leadership, and action research.

Prerequisite: Admission to the M.Ed. in instructional leadership program and concurrent enrollment in LEAD 534.

Offered: Spring.

# ELED - Elementary Education

ELED 202W - Teaching All Learners: Foundations and Strategies (4)

Teaching skills and strategies effective for diverse learners are presented and practiced; principles and practices addressing intellectual, physical, behavioral and cultural differences among children are discussed. Assigned practicum required. Students cannot receive credit for both ELED 202 or ELED 202W and SPED 202 or SPED 202W. This is a Writing in the Discipline (WID) course.

Prerequisite: FNED 101 and FNED 246, with a minimum grade of B-, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Fall.

ELED 222 - Foundations of Literacy I: Grades 1-3 (3)

In this course, students will learn and reflect critically on effective high quality core literacy curriculum for grades K-3. Students design standards-aligned literacy instruction and reading assessments.

Prerequisite: ELED 202 or ELED 202W with a minimum grade of B-; admission to the Elementary Education program or consent of the Department Chair.

Offered: Fall, Spring.

ELED 238 - Teaching Functions and Algebra (2)

Students examine concepts central to teaching and learning algebra in elementary and middle school. Generalization, symbols, patterns, functional relationships and representations are investigated in an inquiry-based teaching and learning model.

Prerequisite: Admission to the Feinstein School of Education and Human Development and MATH 144.

Offered: Fall, Spring.

ELED 248 - Teaching Data and Statistics (2)

Students examine concepts central to teaching and learning data and statistics in elementary and middle school. Data collection, representation, analysis, probability and measures of central tendency are investigated.

Prerequisite: Admission to the Feinstein School of Education and Human Development and MATH 144.

Offered: Fall, Spring.

ELED 300 - Concepts of Teaching Diverse Learners (3)

The technical skills of teaching and classroom organization in diversity responsive classrooms are presented and practiced. Observations and multicultural field experience are required. 4 contact hours.

Prerequisite: FNED 246, with minimum grade of B-; minimum GPA of 2.50 in all previous courses; and admission to the elementary education teacher preparation program; or consent of department chair.

Offered: Fall, Spring.

ELED 324 - Foundations of Literacy II: Grades 3-6 (3)

In this course, students will learn and reflect critically on effective high quality core literacy curriculum for grades 3-6. Students design standards-aligned literacy instruction and reading assessments.

Prerequisite: ELED 222 with a minimum grade of B-.

Offered: Fall, Spring.

ELED 326 - Assessment and Intervention in Literacy-Tier 2 (4)

Teacher Candidates will determine the need for Tier 2 support. They will identify and implement reading interventions and monitor student growth using aligned progress monitoring tools and normed growth criteria.

Prerequisite: ELED 222 with a minimum grade of B-.

Offered: Fall, Spring.

ELED 330 - Physical Sciences for Elementary School Teachers (2)

Students in this course examine content pedagogical knowledge for elementary school learners in the physical sciences through interactive investigations.

Prerequisite: Admission to FSEHD, or permission of the Department Chair.

Offered: Fall, Spring, Summer.

ELED 400 - Curriculum and Assessment with Instructional Technology (3)

Theory and strategies for designing curriculum and assessing student learning are examined, along with other factors affecting teaching and learning. A variety of texts will be analyzed and discussed including: elementary student work, elementary textbooks, and digital media.

Prerequisite: ELED 300, with minimum grade of B-; admission to the elementary education teacher preparation program or consent of department chair.

Offered: Fall, Spring.

ELED 420 - Children's Literature and the Integrated Arts (3)

The development of various patterns of literature instruction integrated with the arts of music, drama and art in the elementary school are studied.

Prerequisite: ELED 300, with minimum grade of B-; admission to the elementary education teacher preparation program; or consent of the department chair.

Offered: Fall, Spring.

ELED 422 - Developmental Reading (3)

This field-based experience is concerned with reading instruction from a developmental perspective. Instructional implications for teaching special populations are covered. Focus is on the elements of a balanced program in reading and writing. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 300, with minimum grade of B-; admission to the elementary education teacher preparation program; or consent of department chair. Concurrent with ELED 435;

Offered: Fall, Spring.

ELED 435 - Language Arts and ELL Instruction (3)

The role of language arts in elementary schools and the development of teaching/learning strategies to include all children are examined, including English language learners and special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 300, with minimum grade of B-; admission to the elementary education teacher preparation program; or consent of department chair. Concurrent with ELED 422.

Offered: Fall, Spring.

ELED 436 - Teaching Social Studies to Diverse Learners (3)

The role of social studies in elementary schools and the development of teaching/learning strategies are examined, including becoming culturally conscientious and responsive to diverse learners. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 202 or ELED 202W or SPED 202 or SPED 202W, with a minimum grade of B-; ELED 222 and ELED 324, each with a minimum grade of B-; GEOG 200 (and HIST 107) or POL 202 (and any HIST General Education) with a minimum grade of C; and admission to the elementary education teacher preparation program or consent of the department chair.

Offered: Fall, Spring.

ELED 437 - Elementary School Science and Health Education (3)

The role of science and health in elementary schools and the development of teaching/learning strategies are examined, including teaching science and health to special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: BIOL 100 and PSCI 204, each with a minimum grade of C, except for students electing a content major in general science; ELED 202 or ELED 202W or SPED 202 or SPED 202W; ELED 222 and ELED 324.

Offered: Fall, Spring.

ELED 438 - Teaching Elementary School Mathematics (3)

The role of mathematics in elementary schools and the development of teaching/learning strategies are examined, including teaching mathematics to special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 202 or ELED 202W or SPED 202 or SPED 202W, with a minimum grade of B-; ELED 222 and ELED 324, each with a minimum grade of B-; MATH 143 and MATH 144 each with a minimum grade of C, and admission to the elementary education teacher preparation program or consent of the department chair.

Offered: Fall, Spring.

ELED 439 - Student Teaching in the Elementary School (9)

In this culminating field experience, candidates complete a teaching experience in an elementary school under the supervision of a cooperating teacher and college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Concurrent enrollment in ELED 469; satisfactory completion of all major and professional courses required prior to student teaching; a positive recommendation from the professor of each elementary education course; a cumulative GPA of 2.50 a full semester prior to student teaching; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; and completion of the community service requirement.

Offered: Fall, Spring.

ELED 440 - Capstone: STEAM/Project-Based Learning (2)

Teacher candidates are offered an opportunity to explore integrated Project-Based Learning (PBL) experiences that reflect an understanding of the essential concepts and methodologies of STEAM in the elementary classroom.

Prerequisite: ELED 437 and ELED 438 with a grade of B- or better; or permission of the department chair.

Offered: Fall, Spring, Summer.

ELED 469W - Best Practices: Instruction, Assessment, Classroom Management (3)

Candidates analyze teaching as a profession. Topics include current issues and practices in teaching; collaborations among school personnel, families, and community agencies; assessment; classroom management; and job search. This is a Writing in the Discipline (WID) course.

Prerequisite: Concurrent enrollment in ELED 439.

Offered: Fall, Spring.

ELED 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ELED 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, program director and dean, and admission to the elementary education honors program.

Offered: As needed.

ELED 492 - Independent Study II (3)

This course continues the development of research or activity begun in ELED 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: ELED 491; and consent of instructor, program director and dean.

Offered: As needed.

ELED 504 - Mathematics in the Elementary School (3)

Focus is on the content and approach to modern mathematics programs, particularly current research and curriculum trends.

Prerequisite: Graduate status and elementary school teaching experience, or consent of instructor.

Offered: Fall, Spring.

ELED 506 - Elementary Mathematics: Geometry, Measurement, Data, Statistics (3)

Elementary mathematics curriculum, content knowledge, standards-based instruction, and research in pedagogy are linked to the teaching of geometry, measurement, and data in the elementary classroom.

Prerequisite: Graduate status and elementary school teaching experience, or consent of instructor.

Offered: As needed.

ELED 508 - Language Arts in the Elementary School (3)

Research and theory as it applies to oral and written language learning, classroom talk, sociocultural diversity in communication styles, and the teacher's role in a child-centered classroom are examined.

Prerequisite: Graduate status or consent of instructor.

Offered: Summer.

ELED 510 - Research Methods, Analysis, and Applications (3)

Practitioners and consumers of research literature examine the process, products, and application of educational inquiry. Topics include research design, data collection, and analysis.

Prerequisite: Graduate status and prior work in research methods or applied research, or tests and measurements, or statistics; or consent of instructor.

Offered: Fall, Spring, Summer.

ELED 512 - Theoretical Perspectives on How Students Learn (3)

The research on learning and theory are explored that have informed teaching in the United States. Study includes the foundations of traditional and constructivist education.

Prerequisite: Graduate status.

Offered: Annually.

ELED 513 - Designing and Assessing Teaching and Learning (3)

Students examine the theory and strategies for designing and assessing instruction, considering the diversity of learners, the nature of content, and ways of knowing.

Prerequisite: Graduate status and ELED 512.

Offered: Annually.

ELED 514 - Educational Change (3)

Applications of change models are incorporated into professional and educational settings. Course readings and projects explore models of educational change and reform through teachers' professional development and grant-writing activities.

Prerequisite: ELED 513 and matriculation into the M.Ed. program.

Offered: Annually.

ELED 518 - Science in the Elementary School (3)

Emphasis is on recent research and curriculum trends in science education. Individual and group laboratory experiences employ various science processes.

Prerequisite: Graduate status and one year of college-level science or consent of instructor.

Offered: Fall, Spring.

ELED 519 - Professional Development for Cooperating Teachers (3)

Cooperating teachers gain knowledge, tools, and experience that help them prepare teacher candidates to meet professional requirements in elementary and early childhood education. This course may be repeated after four years. Hybrid course.

Prerequisite: Graduate status and currently serving as a cooperating teacher, or consent of department chair.

Offered: As needed.

ELED 522 - M.A.T. Teaching Reading Practicum (3)

In this field-based course teacher candidates explore what is involved in teaching reading and how to support and instruct readers, pre-emergent through fluent readers K-6.5 contact hours.

Prerequisite: Admission to the M.A.T. program, CEP 552, ELED 500, FNED 546, minimum GPA of 3.0, or consent of department chair.

Offered: Fall.

ELED 527 - M.A.T. Teaching Writing Practicum (3)

In this field-based course, teacher candidates learn the art and craft of writing, how it develops in elementary school children and how to teach craft and conventions of writing.

Prerequisite: Admission to the M.A.T. program, CEP 552, ELED 500, FNED 546, minimum G.P.A. of 3.0, or consent of department chair.

Offered: Fall.

ELED 528 - M.A.T. Teaching Social Studies Practicum (3)

Students examine and evaluate objectives, content and organization of social studies curriculum, resource materials and selected instructional models in light of current recommendations and research data. Practicum course.

Prerequisite: Graduate status and elementary school teaching experience or consent of instructor.

Offered: Summer.

ELED 537 - M.A.T. Teaching Science Practicum (3)

Research and theory as it applies to science and associated teaching methods are examined. Emphasis is on application and authentic assessment in practicum settings with diverse populations. 5 contact hours.

Prerequisite: Admission to the M.A.T. program, CEP 552, ELED 500, FNED 546, minimum GPA of 3.0, or consent of department chair.

Offered: Fall.

ELED 538 - M.A.T. Teaching Mathematics Practicum (3)

Research and theory as it applies to mathematics and associated teaching methods are examined. Emphasis is on application and authentic assessment in practicum settings with diverse populations. 5 contact hours.

Prerequisite: Admission to the M.A.T. program, CEP 552, ELED 500, FNED 546, minimum GPA of 3.0, or consent of department chair.

Offered: Fall.

ELED 540 - Curriculum and Assessment (3)

Theory and strategies for designing curriculum and assessing student learning are examined, along with other factors affecting teaching and learning. An online component is included.

Prerequisite: Graduate status and a Teach For America corps member, or consent of department chair.

Offered: As needed.

ELED 541 - Teaching Literacy across the Curriculum (3)

This course examines how literacy theory and children's language and literacy development drive effective literacy assessment and instructional practice. An online component is included.

Prerequisite: Graduate status and a Teach For America corps member, or consent of department chair.

Offered: As needed.

ELED 542 - Educating All Students (3)

Focus is on the influence of culture and language on teaching and learning. Students develop skills to educate diverse learners. An online component is included.

Prerequisite: Graduate status and a Teach For America corps member, or consent of department chair.

Offered: As needed.

ELED 543 - Integrating Theory and Methods (3)

This interdisciplinary course focuses on applying theory in practice across content taught in elementary schools. Emphasis is on mathematics, science, and social studies. An online component is included.

Prerequisite: Graduate status and a Teach For America corps member, or consent of department chair.

Offered: As needed.

ELED 554 - Learning and Teaching Seminar II (2)

Teacher candidates observe in their student teaching setting, gather data about classroom, school, community and district contexts, and reflect on classroom culture and developing teacher-student relationships during seminar classes.

Prerequisite: Satisfactory completion of all courses in the M.A.T. in elementary education program required prior to student teaching; a positive recommendation from the professor of each elementary education course; a minimum grade of B- in all professional education courses; a cumulative G.P.A. of 3.0 a full semester prior to student teaching; passing score(s) on the Praxis II, and an approved Preparing to Teach Portfolio.

Offered: Early Spring.

ELED 558 - This course has been deleted. See program director for substitute course. (Teaching and Learning Writing) (3)

ELED 559 - Student Teaching in the Elementary School (7)

In this culminating field experience, candidates complete a teaching experience in a preschool or elementary school under the supervision of a cooperating teacher and college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Satisfactory completion of all courses in the M.A.T. in elementary education program required prior to student teaching; a positive recommendation from the professor of each elementary education course; a minimum grade of B- in all professional education courses; a cumulative GPA of 3.0 a full semester prior to student teaching; passing score(s) on the Praxis II, and an approved Preparing to Teach Portfolio.

Offered: Spring.

ELED 569 - Learning and Teaching Seminar III (2)

Student teachers reflect on their experiences. Teacher behaviors appropriate to effective teaching are developed. Topics include engaging learners, language, classroom management, effective communication, learning styles and teaching strategies. Meets weekly.

Prerequisite: Graduate status and concurrent enrollment in ELED 559.

Offered: Spring.

ELED 618 - Elementary Mathematics Seminar (1)

Teacher behaviors appropriate to effective Math Specialist teaching are developed. Candidates demonstrate Association of Mathematics Teacher Educators competencies while completing a 100-hour internship teaching mathematics. 2 contact hours.

Prerequisite: Graduate status, MTET 511, MTET 512, MTET 513, and MTET 514 or consent of department chair.

Offered: Fall.

ELED 619 - Elementary Mathematics Assessment and Remediation Clinic (6)

Focus is on the assessment and remediation of mathematics difficulties, proficiency in topics central to elementary mathematics, and understanding how children learn mathematics. This course is taught in a six-week summer clinic. Students complete 50 internship hours. 16 contact hours.

Prerequisite: Graduate status and ELED 504 or consent of department chair.

Offered: As needed.

ELED 664 - Seminar in Education (3)

Topics vary.

Offered: As needed.

ELED 691-694 - Directed Research (1-4)

Students initiate a formal inquiry into an area of concern associated with their present professional responsibilities under the direction of a faculty member. A maximum of 4 credit hours may be earned in these courses.

Prerequisite: Enrollment in the M.Ed. program in secondary education or the educational specialist programs and consent of department chair.

Offered: As needed.

# ENGL - English

ENGL 113 - Approaches to Drama: Page to Stage (4)

What makes drama unique from other genres? Paying special attention to the performative aspects, students experience, explore, and analyze plays from the Greeks to the contemporary.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

ENGL 118 - Introduction to the Literary Experience (4)

This course provides students with a rich experience of literature from a variety of periods and genres, exploring the questions of what literature is and how texts make meaning.

General Education Category: Literature.

Offered: As needed.

ENGL 120 - Studies in Literature and Identity (4)

This course provides students with a rich experience of literature from a variety of periods and genres that explores issues of identity.

General Education Category: Literature.

Offered: Fall, Spring, Summer.

ENGL 121 - Studies in Literature and Nation (4)

This course provides students with a rich experience of literature from a variety of periods and genres that explores issues of nationality and nationhood.

General Education Category: Literature.

Offered: Fall, Spring, Summer.

ENGL 122 - Studies in Literature and the Canon (4)

This course provides students with a rich experience of literature from a variety of periods and genres that explores canonical issues.

General Education Category: Literature.

Offered: Fall, Spring, Summer.

ENGL 123 - Studies in Literature and Genre (4)

This course provides students with a rich experience of literature from a variety of periods and genres that explores generic issues.

General Education Category: Literature.

Offered: Fall, Spring, Summer.

ENGL 200W - Reading Literature and Culture (4)

Students examine the principles that define form and meaning in a literary text, particularly the practice of close reading and the acquisition of a critical vocabulary and methodology, and consider fundamental issues of literary interpretation, texts and authorship. This is a Writing in the Discipline (WID) course. (Formerly ENGL 201)

Prerequisite: Gen. Ed. literature in English and FYW 100, FYW 100H or FYW 100P (or completion of the college writing requirement).

Offered: Fall, Spring.

ENGL 203 - Career Readiness for Humanities Majors (4)

Students learn about the range of careers available to humanities majors while getting concrete guidance in creating professional materials of their own, including resumes, LinkedIn profiles, and portfolios. Graded S/U.

Prerequisite: FYW 100 or FYW 100H or FYW 100P or completion of the college writing requirement, and completion of at least 15 credit hours.

Offered: Annually.

ENGL 208 - British Literature (4)

Students study works of British literature between the Middle Ages and the present, focusing on a period of at least 300 consecutive years. (Formerly ENGL 205 or ENGL 206)

Prerequisite: Gen. Ed. literature in English and FYW 100, FYW 100H or FYW 100P (or completion of the college writing requirement).

Offered: Annually.

ENGL 209 - American Literature (4)

Students study works of American literature between the pre-colonial era and the present, for a period of at least 300 consecutive years, including major historical and literary contexts. (Formerly ENGL 207)

Prerequisite: Gen. Ed. literature in English and FYW 100, FYW 100H or FYW 100P (or completion of the college writing requirement).

Offered: Annually.

ENGL 210 - Children’s Literature: Interpretation and Evaluation (4)

Studying writings from early folklore to current books written for toddlers to preteens tells us much about changing social perceptions of children and childhood throughout the ages.

Prerequisite: Gen. Ed. literature in English and FYW 100, FYW 100H or FYW 100P (or completion of the college writing requirement).

Offered: Annually.

ENGL 212 - Adolescent Literature: Images of Youth (4)

Through a variety of literary and visual texts, students explore images of and themes related to adolescence in young adult literature.

Prerequisite: Gen. Ed. literature in English and FYW 100, FYW 100H or FYW 100P (or completion of the college writing requirement).

Offered: Annually.

ENGL 220W - Introduction to Creative Writing (4)

Basic techniques of writing fiction and poetry are introduced. Emphasis is on fundamental methods and forms basic to contemporary fiction and poetry. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100, FYW100H or FYW 100P or completion of College Writing Requirement.

Offered: Fall, Spring.

ENGL 222W - Introduction to Professional Writing (4)

Students are introduced to core concepts of writing and rhetoric as they apply to professional writing; students will lead investigations into career opportunities for professional writers. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100 or FYW 100H or FYW 100P, or completion of the college writing requirement.

Offered: Annually

ENGL 230W - Workplace Writing (4)

This is a Writing in the Discipline (WID) course.Students explore the social and rhetorical dimensions of workplace writing. Emphasis is on the rhetorical situation. Genres may include letters, memos, proposals, presentations, or reports.

Prerequisite: FYW 100 or FYW 100H or FYW 100P, or completion of the college writing requirement.

Offered: Alternate years.

ENGL 231W - Multimodal Writing (4)

Students explore technologies for the production of multimodal texts in various media. Emphasis is on the rhetorical situation. Genres may include white papers, blogs, podcasts, PSAs, posters, brochures, or presentations. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100 or FYW 100H or FYW 100P, or completion of the college writing requirement.

Offered: Alternate years.

ENGL 232W - Public and Community Writing (4)

Students explore the role of writing in democratic community engagement and participation. Emphasis is on the rhetorical situation. Genres may include rhetorical analyses, editorials, white papers, presentations, and/or position papers. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100 or FYW 100H or FYW 100P, or completion of the college writing requirement.

Offered: Alternate years.

ENGL 233W - Writing for the Health Professions (4)

Students explore the social and rhetorical dimensions of writing in the healthcare and health sciences professions. Genres may include technical and scientific reports, advocacy and grant writing, and clinical documentation. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100 or FYW 100H or FYW 100P, or completion of the college writing requirement.

Offered: Fall, Spring, Summer.

ENGL 261 - Arctic Encounters (4)

Students examine narratives of cultural contact, both “factual” and “fictional,” between European “explorers” of the Arctic and native peoples in the comparative context of European colonialism and emergent native literatures.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: As needed.

ENGL 262 - Women, Crime, and Representation (4)

Representations are examined in fiction, nonfiction, film, and television of women as criminals, as crime victims, and as detectives. Emphasis is on 20th- and 21st-century texts from several countries.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: As needed.

ENGL 263 - Zen East and West (4)

Students explore Zen and its way of mindful "unknowing" from Eastern and Western expressions. Students read and write about literature, film, and representative works of Zen Buddhism from across time and across cultures.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Spring (alternate years).

ENGL 265 - Women's Stories across Cultures (4)

Contemporary narratives by women from various world cultures are compared. Focus is on women's struggles for identity and their diverse modes of telling stories, including fiction, film, memoir, and comics.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW or 100P/FYW 100H, and at least 45 credits.

Offered: As needed.

ENGL 267 - Books that Changed American Culture (4)

Students will read and discuss selected fiction and nonfiction bestsellers that had a profound influence on twentieth-century American society.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW or 100P/FYW 100H, and at least 45 credits.

Offered: Alternate years.

ENGL 300W - Introduction to Theory and Criticism (4)

Students read a range of critical and cultural theories and consider fundamental issues of language, interpretation and authorship including the assumptions involved in reading and writing about texts. This is a Writing in the Discipline (WID) course. (Formerly ENGL 202)

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: Fall, Spring.

ENGL 301 - Reading America to the Civil War (4)

Students read poetry, nonfiction prose, and short fiction from various periods of American history, from exploration and settlement through the rise of the nation to the cataclysmic Civil War.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201

Offered: As needed.

ENGL 302 - Studies in American Literature 1860-1945 (4)

American literature of the late nineteenth and/or early twentieth centuries is examined within its cultural contexts. Periods, topics and approaches vary with instructor. The course may be repeated for credit with a change in topic.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201

Offered: As needed.

ENGL 304 - Studies in British Literature to 1500 (4)

Students will read British literature from the medieval period. Periods, topics and approaches vary with instructor. The course may be repeated for credit with a change in topic.

Prerequisite: : ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 305 - Studies in British Literature 1500-1700 (4)

Students read representative British literature from the sixteenth and/or seventeenth centuries. Periods, topics and approaches vary with instructor. The course may be repeated for credit with a change in topic.

Prerequisite: : ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 306 - Studies in British Literature 1700-1914 (4)

Students explore significant cultural and literary movements in Britain in the eighteenth, nineteenth, and/or early twentieth centuries. Periods, topics and approaches vary with instructor. The course may be repeated for credit with a change in topic.

Prerequisite: : ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 307 - Studies in Modernist and Contemporary Literature (4)

Students read American, British, and/or Anglophone literature of the twentieth century in relation to modernism, postmodernism, and/or contemporary literary movements. The course may be repeated for credit with a change in topic.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 310 - Readings for Writers (4)

Students undertake focused inquiry into and instruction in the genres, literary traditions, critical concepts, and/or formal and aesthetic topics of fundamental concern to creative writers.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: Annually.

ENGL 315 - Literature, Environment and Ecocriticism (4)

Students explore the interdisciplinary connections among Ecocriticism-as-theory, literature, and film. Students will make the all-important interdisciplinary connections in and among varied fields related to Environmental Studies.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: Annually.

ENGL 324 - Literature by Women (4)

Students read works by women writers and engage issues of gender, tradition, and canon. The genre of literature may vary.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: As needed.

ENGL 326 - Studies in African American Literature (4)

Students read African-American literature in English. Students may repeat this course for credit with a change in content.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 327 - Studies in Multicultural American Literatures (4)

Students explore issues of race, ethnicity, and canon through the study of several American literatures, such as African-American, Asian-American, Hispanic-American, and Native-American. Students may repeat this course for credit with a change in content.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 335 - Literatures of the World to 1500 (4)

Students analyze world literature to 1500 from such regions as ancient Greece, Europe, the Middle-East, Asia, Africa, and the Americas. Students may repeat this course for credit with a change in content.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 336 - Reading Globally (4)

Students engage various literary genres from Asia, Africa, and other regions in a global context.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 340 - Studies in Poetry, Drama or Prose (4)

Students analyze major trends, movements and/or figures in poetry, drama or prose. Periods, topics and approaches vary with instructor. The course may be repeated for credit with a change in topic.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201.

Offered: As needed.

ENGL 341 - Studies in Literature and Film (4)

Students explore the nature of adaptation by examining literary sources and their expression in cinematic and other visual forms.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: As needed.

ENGL 345 - Shakespeare: Histories and Comedies (4)

Students analyze Shakespeare’s histories and comedies in their theatrical, literary, and social contexts.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: As needed.

ENGL 346 - Shakespeare: The Tragedies and Romances (4)

Students analyze Shakespeares tragedies and romances in their theatrical, literary, and social contexts.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: As needed.

ENGL 350 - Topics Course in English (4)

Topics courses vary in content and are not offered on a regular basis. For details, check the departmental course descriptions  published each semester.

Prerequisite: ENGL 200 or ENGL 200W, or ENGL 201,

Offered: As needed.

ENGL 371W - Intermediate Creative Writing, Fiction (4)

Students write, discuss and revise a number of original works and study the work of established writers. Students may repeat this course for credit. This is a Writing in the Discipline (WID) course.

Prerequisite: ENGL 220 or ENGL 220W.

Offered: Fall, Spring.

ENGL 372W - Intermediate Creative Writing, Poetry (4)

Students write, discuss and revise a number of poems and analyze the works of established poets. Students may repeat this course for credit. This is a Writing in the Discipline (WID) course.

Prerequisite: ENGL 220 or ENGL 220W.

Offered: Fall, Spring.

ENGL 373W - Intermediate Creative Writing, Nonfiction Prose (4)

Focus is on the production and revision of literary prose, which may include the nonfiction narrative, the personal essay, the prose meditation or the autobiography. Students may repeat this course for credit. This is a Writing in the Discipline (WID) course.

Prerequisite: ENGL 220 or ENGL 220W.

Offered: As needed.

ENGL 375 - Shoreline Production: Selection and Editing (2)

Students learn the basic principles of producing a literary magazine, *Shoreline*, including manuscript solicitation, selection, and editing. This course may be repeated for elective credit only.

Prerequisite: FYW 100 or FYW 100P or consent of the instructor.

Offered: Fall.

ENGL 376 - Shoreline Production: Design and Distribution (2)

Students learn the basic principles of producing a literary magazine, *Shoreline*, including copy editing, design, and distribution. This course may be repeated for elective credit only.

Prerequisite: FYW 100 or FYW 100P or consent of the instructor.

Offered: Spring.

ENGL 378 - Advanced Workshop in Professional Writing (4)

Students explore social and rhetorical contexts and genres tailored specifically to their professional and disciplinary needs through sustained inquiry and primary/secondary research.

Prerequisite: ENGL 200/ENGL 200W/ ENGL 201, or ENGL 222W, or consent of department chair.

Offered: Alternate years.

ENGL 379 - Rhetoric for Professional Writing (4)

Students explore histories and theories of ancient, contemporary, and global rhetoric(s) with an application of these concepts to student disciplinary and professional writing.

Prerequisite: ENGL 200 or ENGL 200W or ENGL 201, or ENGL 222W, or consent of department chair.

Offered: Alternate years.

ENGL 390 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ENGL 432 - Studies in the English Language (4)

Students explore the English language with regard to its phonology, morphology, syntax and vocabulary; historical developments and variations; personal, social and communicative purposes; and language acquisition. The course may be repeated for credit with a change in content.

Prerequisite: ENGL 200 orENGL 200W or ENGL 201, or ENGL 222W, or consent of department chair.

Offered: As needed.

ENGL 450 - Advanced Topics in English (4)

Advanced topics courses vary in content and are not offered on a regular basis. For details, check the departmental course descriptions published each semester. The course may be repeated for credit with a change in content.

Prerequisite: ENGL 200 or ENGL 200W or ENGL 201, or ENGL 222W, or consent of department chair.

Offered: As needed.

ENGL 460W - Seminar in English (4)

A culminating learning experience for all English majors. Students will develop an independent research paper or project designed to demonstrate individual progress and support professional goals. This is a Writing in the Discipline (WID) course.

Prerequisite: Four 300/400-level English courses, or by consent of department chair.

Offered: Fall, Spring.

ENGL 461W - Advanced Workshop in Creative Writing (4)

Students produce original works of fiction, poetry, or nonfiction prose that is of publishable quality. Enrollment is limited to fifteen students. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 8 credit hours of creative writing courses at the 300-level or consent of program director.

Offered: As needed.

ENGL 477 - Internship in Professional Writing (4)

Experiential learning capstone for English students in Professional Writing concentration. Students attend a weekly face-to-face or online 1-hour seminar. Additional 12 contact hours.

Prerequisite: For Professional Writing majors/minors ENGL 222W and ENGL 378 or ENGL 378W; a minimum GPA of 3.0 and/or permission of department chair or instructor. For any other majors a minimum GPA of 3.0 and permission of department chair or instructor.

Offered: As needed.

ENGL 490 - Directed Study (4)

Students select a topic and undertake concentrated research under the supervision of a faculty member. Students who wish to pursue a creative writing project should submit a portfolio of work with their application.

Prerequisite: Consent of instructor, department chair, and dean.

Offered: As needed.

ENGL 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. Students who wish to pursue a creative writing project should submit a portfolio of work with their application.

Prerequisite: Completion of 12 credits of 300/400 level ENGL courses, consent of instructor, department chair and dean and admission to the English honors program. Students who wish to pursue a creative writing project should submit a portfolio of work with their application.

Offered: As needed.

ENGL 492 - Independent Study II (4)

This course continues the development of research or creative activity begun in ENGL 491. For departmental honors, the project requires final assessment by the department’s Honors Committee or Creative Writing faculty.

Prerequisite: ENGL 491 and consent of instructor, department chair and dean.

Offered: As needed.

ENGL 501 - Literary and Cultural Theory (3)

Introduces students to current critical theories and methodologies in the study of literature, writing and culture.

Prerequisite: Graduate status and consent of department chair.

Offered: Fall.

ENGL 520 - Topics in Composition Theory and Rhetoric (3)

Students are introduced to topics in the field of composition and rhetoric, including the theory and teaching of writing, the history of rhetoric and composition and various contemporary research areas.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 521 - Topics in Cultural Studies (3)

Students view texts as cultural products and as forms of cultural practice in the context of such issues as racial, sexual, and class politics.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 522 - Topics in Feminist Theory and Literature (3)

Focus is on one or more areas of contemporary feminist theory in conjunction with literature by women and/or representations of women in literature.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 523 - Topics in Ethnic American and/or African American Literatures (3)

Issues of culture, identity, race, and power are considered in the literature of one or more ethnic groups and/or of African Americans.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 524 - Topics in Postcolonial Literatures (3)

Students examine representative ideas found in African, South Asian, and Caribbean postcolonial literatures and their contributions to Western discourses on race, ethnicity, and gender and on debates about literary form and canon formation.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 525 - Topics in Genre (3)

Focus is on the theory and practice of a particular genre or on a comparative cross-genre approach.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 530 - Topics in British Literature before 1660 (3)

Achievements of British writers from the medieval and Renaissance periods are considered within their cultural contexts. Periods, topics, and approaches vary with instructor.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 531 - Topics in British Literature from 1660 to 1900 (3)

Achievements of Restoration and eighteenth-century, romantic and Victorian British writers are considered within their cultural contexts. Periods, topics, and approaches vary with instructor.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 532 - Topics in British Literature since 1900 (3)

Achievements of modern and contemporary British writers are considered within their cultural contexts. Periods, topics, and approaches vary with instructor.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 540 - Topics in American Literature before 1900 (3)

Achievements of American writers from the beginning through the nineteenth century are explored within their cultural contexts. Periods, topics, and approaches vary with instructor.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 541 - Topics in American Literature since 1900 (3)

Achievements of American writers of the past century are examined within their cultural contexts. Periods, topics, and approaches vary with instructor.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 560 - Seminar in Literary Theory (3)

Significant issues in literary and cultural theory are considered.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 581 - Workshop in Creative Writing (3)

Students write, revise, and present original work to be discussed and critiqued by workshop members under the direction of the instructor. Work of publishable quality is the goal.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

ENGL 591 - Directed Reading (3)

After consulting an advisor, the student pursues a program of reading. This course may be repeated for credit with a change in content.

Prerequisite: Graduate status and consent of the Department of English Graduate Committee.

Offered: As needed.

ENGL 592 - Master's Thesis (3)

Students write either a substantial critical paper or a substantial portfolio of creative work under the supervision of a faculty member.

Prerequisite: Graduate status and approval of thesis proposal by the Department of English Graduate Committee.

Offered: As needed.

# ESL - English as a Second Language

ESL 101 - Intensive Basic English as a Second Language (4)

This is the initial course for students who are proficient in a language other than English. English fluency in basic interpersonal communication is increased by listening, speaking, reading, and writing. A laboratory component is required. 8 contact hours. (Intended for nonnative speakers of English.)

Prerequisite: Department placement examination.

Offered: Fall, Spring.

ESL 102 - Intensive Intermediate English as a Second Language (4)

Students develop intermediate-level English skills in listening, speaking, reading, and writing as they apply to interpersonal communication and academic areas. A laboratory component is required. 8 contact hours. (Intended for nonnative speakers of English.)

Prerequisite: ESL 101 or department placement examination.

Offered: Fall, Spring.

ESL 201 - Intensive Advanced English as a Second Language (4)

Advanced-level communication skills are developed in listening, speaking, reading, and writing. Activities include essay writing, debates, and discussions on academic topics. A laboratory component is required. 8 contact hours. (Intended for nonnative speakers of English.)

Prerequisite: ESL 102 or a department placement examination.

Offered: Fall, Spring.

# ENST - Environmental Studies

ENST 200W - Environmental Studies (4)

Taking an interdisciplinary perspective, students will examine the reciprocal relationship between humans and the natural environment, emphasizing the ecological and social aspects of environmental issues. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100, FYW 100P, or FYS 100.

Offered: Spring.

ENST 261 - Climate change and YOU (4)

Students will explore the historical, economic implications, scientific evidence and societal repercussions of climate change to evaluate how climate change affects life now and in the future.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits

Offered: Fall, Summer.

ENST 301 - Ethnobotany (4)

Ethnobotany focuses on intrinsic cultural knowledge of plants and their uses as foods, medicines, for tool-making and in ritual practice. Basic plant biology and enthnobotanical field methods are also discussed. Cannot get credit for ANTH 301 and ENST 301.

Prerequisite: ANTH 101, ANTH 102, ANTH 103, ANTH 104 or ENST 200.

Cross-Listed as: ANTH 301

Offered: Alternate years.

ENST 350 - Topics in Environmental Studies (4)

Topics courses vary in subject matter, covering current issues or specialized content that are not addressed in the main curriculum. This course may be repeated once for credit with a change in topic.

Prerequisite: Completion of ENST 200 and at least 45 college credits or consent of program chair and instructor.

Offered: As needed.

ENST 390 - Directed Study in Environmental Studies (1-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Completion of at least 60 college credits, ENST 200, at least four (4) additional foundational courses in the major and consent of program chair and instructor.

Offered: As needed.

ENST 461 - Environmental Studies Capstone Seminar (4)

Senior environmental studies majors collaborate with campus and community organizations to lend their creativity, knowledge and research skills to addressing environmental issues in Rhode Island.

Prerequisite: ENST 200, at least 6 courses in the ENST major, 90 credit hours.

Offered: As needed.

ENST 462 - Internship in Environmental Studies (4)

This internship, normally taken during the senior year, provides students with field experience in local, state, or national agencies or private agencies. Assignments relate field experiences to academic concepts.

Prerequisite: ENST 200, at least 6 courses in the ENST major, 90 credit hours.

Offered: Fall, Spring, Summer.

ENST 490 - Independent Study in Environmental Studies (1-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. May be repeated with a change in topic or continuation of a non-honors project.

Prerequisite: Completion of at least 90 college credits and consent of dean, program chair and instructor with whom student plans to study.

Offered: As needed.

# FILM - Film Studies

FILM 116 - Introduction to Film (4)

Film as an art form is studied through viewing and analyzing representative films and by reading and writing essays on the aesthetics of film.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

FILM 218 - Foundations in Film Production (4)

Students explore basic film production techniques via shooting and editing exercises based upon the grammar and aesthetics of film. Production projects provide experience with a workflow approach.

Prerequisite: FILM 116 or consent of program director.

Offered: Spring

FILM 219W - Foundations in Film Theory and Analysis (4)

Major concepts and methodologies in film studies are introduced. Emphasis is on critical readings and writings of film. This is a Writing in the Discipline (WID) course.

Prerequisite: FILM 116 or consent of program director.

Offered: Spring.

FILM 220 - History of Film I (4)

The history of film is traced from its origins to World War II. Major theoretical statements from the period are also considered.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 221 - History of Film II (4)

Focus is on international developments in film from World War II to the present. Students are encouraged to take FILM 220 before enrolling in this course.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 262 - Cross-Cultural Projections: Exploring Cinematic Representation (4)

Focus is on cross-cultural representation in film. Students analyze how American cinema has represented other cultures and how other cultures have represented themselves and/or the United States. Topic varies.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and 45 credits.

Offered: As needed.

FILM 270 - Screenwriting (4)

Basic techniques of screenwriting are introduced. Emphasis is on narrative film form and development of plot lines, character, and film treatments. The workshop approach allows students to write, discuss, and revise screenplays and treatments.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 271 - Screenwriting II (4)

Advanced techniques for screenwriting are presented. Emphasis is on the development of characters, dialogue, and direction. The workshop approach allows students to write, discuss, and revise an original screenplay using a treatment from FILM 270.

Prerequisite: FILM 270 or consent of program director.

Offered: Alternate years.

FILM 349 - Visual Anthropology (4)

Visual techniques for data collection, production and interpretation are explored within an anthropological framework. Students will learn how photography, film and other media can represent the self and other. Students cannot receive credit for both FILM 349 and ANTH 349.

Prerequisite: One of the following courses: ANTH 101, ANTH 102, ANTH 103, ANTH 104, FILM 116 or consent of department chair or program director.

Offered: Alternate years.

FILM 351 - Major Directors (4)

The work of directors who have made major contributions to film is examined. Focus is limited to one or two directors. This course may be repeated for credit with a change in content.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 352 - Film Genres (4)

An important film genre is traced. Topic varies. This course may be repeated for credit with a change in content.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 353 - National Cinemas (4)

Movements in national cinemas are analyzed. Topics vary. This course may be repeated for credit with a change in content.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 354 - Television Genres (4)

Aspects or issues related to the intersection of television and film are studied. Topic varies. This course may be repeated for credit with a change in content.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 355 - New Media (4)

Aspects or issues related to the intersection of new media and film are studied. Topic varies. This course may be repeated for credit with a change in content.

Prerequisite: FILM 116 or consent of program director.

Offered: Alternate years.

FILM 372 - Preproduction: Word to Moving Image (4)

Basic techniques of planning a film production are introduced. Narrative and documentary forms are introduced. Emphasis is on storyboarding, script writing, location scouting, casting, equipment planning, and shooting schedules.

Prerequisite: FILM 218

Offered: Fall.

FILM 373 - Film Production (4)

Students gain experience working in multiple roles on production teams in this project-based course based upon workflow approach, covering complex production techniques with an emphasis on Narrative and Documentary Forms..

Prerequisite: FILM 372.

Offered: Spring.

FILM 374 - Film Production: Narrative Form (4)

Building on an understanding of the techniques of narrative film form, students conceptualize, script, cast, shoot, and edit multiple narrative short films

Prerequisite: FILM 373.

Offered: Alternate years.

FILM 375 - Film Production: Documentary Form (4)

Building on an understanding of the documentary film form, students research and write a documentary film proposal. Upon approval, students produce a documentary short film.

Prerequisite: FILM 373.

Offered: Alternate years.

FILM 376 - Film Production: Experimental (4)

Students are introduced to historical and contemporary practices in experimental film/video, with emphasis on creative decision making, concepts of play and possibility, experimentation, and personal approaches to filmmaking.

Prerequisite: FILM 373.

Offered: As needed.

FILM 377 - Film Production: 2D Animation (4)

Students are introduced to 2D digital animation tools, with emphasis on basic techniques (movement, character/background design, walk cycles, lip sync, and motion graphics). Short projects are created.

Prerequisite: FILM 373.

Offered: As needed.

FILM 378 - Film Production: 3D Animation (4)

Students are introduced to 3D digital animation tools, with emphasis on modeling and animating scenes. Short projects are created.

Prerequisite: FILM 377.

Offered: As needed.

FILM 379 - Digital Audio Production (4)

Students are introduced to sound theory and digital audio production. They gain experience with sound design, field and studio recording, editing, mixing, signal processing, and basic MIDI production.

Prerequisite: FILM 373.

Offered: As needed.

FILM 454W - Contemporary Film and Theory (4)

Through extensive readings, students examine issues in contemporary film theory, particularly the language and concepts of semiotics, models of psychoanalytic and feminist film theory, and the relationship between textuality and ideology. This is a Writing in the Discipline (WID) course.

Prerequisite: FILM 220, FILM 221; at least two 300-level film courses; or consent of program director.

Offered: Spring.

FILM 479 - Film Studies Internship (1)

Students gain professional experience in a range of opportunities related to the discipline of film studies. Higher credit loads are intended for off-campus residency-based semester-long internship programs. This course may be repeated for credit.

Prerequisite: A major in film studies; completion of at least 55 college credits, 18 of which are in film studies; and a 3.0 GPA in the major.

Offered: Fall, Spring, Summer.

FILM 490 - Directed Study (4)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of program director.

Offered: As needed.

FILM 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, program director and dean, and admission to the film studies honors program.

Offered: As needed.

FILM 492 - Independent Study II (4)

This course continues the development of research or creative activity begun in FILM 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: FILM 491; and consent of instructor, program director and dean.

Offered: As needed.

# FIN - Finance

FIN 230 - Personal Finance (3)

Students examine the markets and institutions they will deal with throughout their financial lives. Topics include borrowing money, real estate, banking, insurance, investing, and retirement planning.

Offered: As needed.

FIN 301 - Financial Management (4)

Financial management concepts are introduced. Topics include the time value of money, risk and return, capital budgeting, cost of capital, and capital structure. Bloomberg certification is incorporated as lab component.

Prerequisite: ACCT 201; MATH 177.

Offered: Fall, Spring, Summer.

FIN 390 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

FIN 423W - Financial Markets and Institutions (4)

Students examine securities markets and the institutions participating in them. Emphasis is on the Federal Reserve System, the regulation surrounding financial institutions and the lessons learned from past financial crises. This is a Writing in the Discipline (WID) course.

Prerequisite: ECON 215; FIN 301.

Offered: Fall, Spring.

FIN 431 - Advanced Corporate Finance (4)

This course focuses on in-depth analysis of corporate finance issues related to risk management, cost of capital, capital budgeting, capital structure and dividend policy. Cases are used as learning tools.

Prerequisite: ECON 214; FIN 301; MATH 248.

Offered: Fall, Spring.

FIN 432 - Investments (4)

This course explores the investment decision making process. Topics covered include different asset classes, trading mechanisms, market efficiency, modern portfolio theory, asset pricing models, derivatives and ethical issues.

Prerequisite: FIN 301; MATH 248.

Offered: Fall, Spring.

FIN 434 - International Financial Management (4)

Corporate finance issues faced by multinational firms are studied. Topics include foreign exchange exposure, currency risk management, international financial markets, currency derivatives, and capital budgeting.

Prerequisite: ECON 215; FIN 301; MATH 248.

Offered: Fall, Spring.

FIN 435 - Financial Statement Analysis (4)

Financial statements and their use in assessing the value of a company's stock are analyzed. Students learn how different accounting methods can alter a company's financial disclosures. (Formerly FIN 335). Students cannot receive credit for both FIN 335 and FIN 435.

Prerequisite: FIN 301.

Offered: Fall, Spring.

FIN 436 - Fixed Income Analysis (4)

Focus is on the valuation of fixed income securities. Risk analysis and management of bonds and structural products, such as mortgage-backed and asset-backed securities, are introduced.

Prerequisite: FIN 301; MATH 248.

Offered: As needed.

FIN 441 - Financial Derivatives and Risk Management (4)

Students understand how financial derivative contracts, such as options, forwards, futures, and swaps, work. Emphasis is on the use of derivatives for risk management. Derivative pricing models are also introduced.

Prerequisite: FIN 432.

Offered: As needed.

FIN 447 - Financial Modeling (4)

This is a hands-on course in which students build models that come from different subfields of finance, from time value of money to derivatives.

Prerequisite: FIN 432.

Offered: As needed.

FIN 461W - Seminar in Finance (4)

This capstone course integrates theoretical and practical aspects of investments and corporate finance with emphasis on strategic decision making. It is a writing-intensive, critical thinking-oriented course that uses cases. This is a Writing in the Discipline (WID) course.

Prerequisite: FIN 431, FIN 432, MATH 248.

Offered: Fall, Spring.

FIN 463W - Seminar in Portfolio Management (4)

The portfolio management process is examined. Topics include investment policy statement, asset allocation, and rebalancing portfolios. Use of a student-managed fund blends theory with practice of money management. This is a Writing in the Discipline (WID) course.

Prerequisite: FIN 432 and approval by a faculty selection committee.

Offered: As needed.

FIN 467 - Directed Internship (4)

Students are assigned to a business, an industrial organization, or a not-for-profit organization and supervised by a mentor. Students receive 1 credit hour for every four hours of work. A two-hour biweekly seminar is included.

Prerequisite: Junior standing, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

FIN 490 - Independent Study in Finance (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. May be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

FIN 491 - Independent Study I (4)

This course emphasizes the development of research for students admitted to the finance honors program. The research topic is selected and conducted under the mentorship of a faculty advisor.

Prerequisite: Admission to the finance honors program and consent of instructor, department chair and dean.

Offered: As needed

FIN 492 - Independent Study II (4)

This course continues the development of research begun in FIN 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: FIN 491 and consent of instructor, department chair and dean.

Offered: As needed.

FIN 556 - Mutual Funds for Income and Retirement (3)

The role of mutual fund investing for the achievement of the goals of the client is reviewed. Focus is on the need for ongoing portfolio realignment and risk management. Various funds and reporting services are also explored.

Prerequisite: Graduate status and ACCT 533 or consent of instructor.

Offered: As needed.

FIN 558 - Asset Allocation (3)

Determination of the optimum portfolio to meet the needs of specific clients is examined. Focus is on risk considerations, diversification, and strategy development within the context of client expectations and goals.

Prerequisite: Graduate status and consent of chair.

Offered: As needed.

FIN 559 - Insurance Planning and Risk Management (3)

Topics include the best insurance products available, risks to being insured, policy provisions, and adequacy of insurance coverage.

Prerequisite: AGraduate status and ACCT 533 or consent of chair.

Offered: As needed.

# FYS - First Year Seminar

FYS 100 - First Year Seminar (4)

Students choose from a wide variety of topics rooted in various disciplines. Each section is discussion-based, focused on developing critical thinking, oral communication, research fluency, and written communication.

General Education Category: First Year Seminar.

Offered: Fall, Spring.

# FYW - First Year Writing

FYW 010 - College Writing Strategies (0)

Students build confidence in their writing as they work closely with their instructor and peers to prepare for enrollment in FYW 100. Grading is S or U.

Offered: Fall, Spring, Summer

FYW 100 - Introduction to Academic Writing (4)

Students are introduced to some of the genres of academic writing and to the writing process. Writing assignments present a progressively more complex sequence of rhetorical situations and purposes.

General Education Category: First Year Writing.

Offered: Fall, Spring, Summer.

FYW 100H - Introduction to Academic Writing (4)

Offered: Fall, Spring.

FYW 100P - Introduction to Academic Writing PLUS (6)

FYW 100P has the same outcomes and goals as FYW 100; however, FYW 100P is six credit hours, meets weekly in a computer classroom, and engages a Writing Center tutor.

General Education Category: First Year Writing

Offered: Fall, Spring

# FNED - Foundations of Education

FNED 100 - Education in a Democratic Society (3)

Students examine the social and cultural forces that affect schools, and the teacher’s role in supporting and advancing equity and aspects of diversity in a democratic society.

Offered: Summer.

FNED 101 - Introduction to Teaching and Learning (2)

Students construct a map for their journey of developing a professional educator identity. Students explore essential questions of social justice education through academic and field experiences.

Graded S, U.

Offered: Fall, Spring, Summer.

FNED 246 - Schooling for Social Justice (4)

Students critically examine the purposes of schooling as a tool of oppression or liberation and the sociocultural forces that affect learning. Eighteen hours of clinical practice are required. (Formerly FNED 346.)

Prerequisite: 12 credit hours of course work, a minimum grade of B in FYW, FNED 101 (or YDEV Major), or consent of department chair.

Offered: Fall, Spring, Summer.

FNED 461 - LatinX in the United States (4)

Students examine recent scholarship on LatinX in the United States and undertake research projects that focus on LatinX issues. Students cannot receive credit for both ANTH 461 and FNED 461.

Prerequisite: Completion of at least 60 college credits and any course in a social or behavioral science, or consent of department chair.

Cross-Listed as: ANTH 461.

Offered: Annually.

FNED 502 - Social Issues in Education (3)

The social and cultural foundations of education are explored. Topics include historical, political, global and legal perspectives on contemporary schooling.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall, Spring, Summer.

FNED 546 - Contexts of Schooling (4)

Integrating class work and a fifteen-hour field component, students examine the social and cultural forces that affect schools.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall, Spring.

FNED 547 - Introduction to Classroom Research (3)

Preservice and in-service teachers are introduced to qualitative and quantitative research in education through the interpretation of published studies and through the initiation of a study in a classroom.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall, Spring.

FNED 561 - LatinX in the United States (4)

Students examine recent scholarship on LatinX in the United States and undertake research projects that focus on LatinX educational issues. Students cannot receive credit for both ANTH 561 and FNED 561.

Prerequisite: Completion of at least 60 college credits and any course in a social or behavioral science, or consent of department chair.

Cross-Listed as: ANTH 561.

Offered: Annually.

# FREN - French

FREN 101 - Elementary French I (4)

Students learn to understand, speak, read, and write in French and gain an understanding of French life and character. Online work is required. Not open to students who have admission credit in French.

Offered: Fall, Spring.

FREN 102 - Elementary French II (4)

Four skills in elementary French—listening, speaking, reading, and writing—are further developed within the context of French culture. Online work is required.

General Education Category: Satisfies Gen. Ed. language requirement with a grade of C.

Prerequisite: FREN 101 or one year of secondary school French, or consent of department chair.

Offered: Fall, Spring.

FREN 113 - Intermediate French I (4)

The cultural heritage of the French-speaking world is examined through selected cultural readings. Grammar and vocabulary are reviewed through a communicative approach. Online work is required.

Prerequisite: FREN 102, or three years of secondary school French, or a score of 500-549 on the CEEB Achievement Test in French.

Offered: Fall, Spring.

FREN 114 - Intermediate French II (4)

Through selected readings, literature as a reflection of the French-speaking world is examined. The development of language skills is continued through a communicative approach. Online work is required.

Prerequisite: FREN 113 or equivalent, or a score of 550-599 on the CEEB Achievement Test in French, or consent of department chair.

Offered: Spring.

FREN 115 - Literature of the French-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from France and the Francophone World as they continue to develop speaking, reading, and writing skills in French.

General Education Category: Literature.

Prerequisite: FREN 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

FREN 201W - Advanced French: Conversation and Composition (4)

Through contextualized activities, idiomatic spoken French and the structures required for written communication are studied. Modern France is discussed. Online work is required. This is a Writing in the Discipline (WID) course.

Prerequisite: FREN 114 or equivalent, or a score of 600 or above on the CEEB Achievement Test in French, or consent of department chair.

Offered: Fall.

FREN 202W - Advanced French: Composition and Conversation (4)

Writing skills, style, and content are developed. Current issues in France and the Francophone world are discussed. Online work is required. This is a Writing in the Discipline (WID) course.

Prerequisite: FRENC 201 or FREN 201W or consent of department chair.

Offered: Spring.

FREN 313 - Modern France and the Francophone World (4)

The major political, social, cultural, and economic forces at work in France today are examined, as well as France's role in the European Union and the Francophone world.

Prerequisite: FREN 202 or FREN 202W or consent of department chair.

Offered: Alternate years.

FREN 323 - Survey of French Literature from the Middle Ages to 1789 (4)

Major writers and literary movements are studied in their historical and social context. Course activities include explications de texte, short papers, and discussion in French.

Prerequisite: Prior or concurrent enrollment in FREN 202 or FREN 202W or consent of department chair.

Offered: Alternate years.

FREN 324 - Survey of French Literature from 1789 to the Present (4)

This is a continuation of FREN 323. Major French and Francophone writers are studied and the technique of close reading is presented. This course is conducted in French.

Prerequisite: Prior or concurrent enrollment in FREN 202 or FREN 202W or consent of the department chair.

Offered: Alternate years.

FREN 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

FREN 416 - Studies in the Seventeenth Century (3)

Representative works of the seventeenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 417 - Studies in the Eighteenth Century (3)

Representative works of the eighteenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 418 - Studies in the Nineteenth Century (3)

Representative works of the nineteenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 419 - Studies in the Twentieth Century (3)

Representative works of the twentieth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 420W - Applied Grammar (3)

The practical application of grammar in both oral and written forms is exercised. Included is an intensive study of construction and idiomatic expressions.  This is a Writing in the Discipline (WID) course.

Prerequisite: FREN 202 or FREN 202W or equivalent.

Offered: Alternate years.

FREN 460W - Seminar in French (3)

This course involves individual and group study of a major author, movement, or period in French literature. A major paper is required. Topics are announced in advance. This course may be repeated for credit with a change in content. This is a Writing in the Discipline (WID) course.

Prerequisite: Open to seniors majoring in French.

Offered: Annually.

FREN 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the French honors program.

Offered: As needed.

FREN 492 - Independent Study II (3)

This course continues the development of research or creative activity begun in FREN 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: FREN 491 and consent of instructor, program director and dean.

Offered: As needed.

FREN 520 - Grammar, Composition, and Stylistics (3)

Precision of diction and accuracy and clarity of expression are the goals of this course. Oral and written exercises are used extensively and grammar is studied pragmatically.

Prerequisite: Graduate status.

Offered: As needed.

FREN 560 - Graduate Seminar in French (3)

Individual and group study is made of a major author or an important period in French literature and is directed toward the writing of a major paper in thesis form. This course may be repeated for credit with a change in content.

Prerequisite: Graduate status.

Offered: Spring.

FREN 590 - Directed Study (3)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor. A major paper in thesis form is required. This course may be repeated for credit with a change in content.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

FREN 595 - Master's Thesis (6)

Credit is assigned in the semester that the thesis is completed and approved. No grade is given in this course. Graded H, S, U.

Prerequisite: Open only to students enrolled in the M.A. program in French.

Offered: As needed.

# GEND - Gender and Women's Studies

GEND 200W - Gender and Society (4)

Students analyze the lives of women and men, using the lenses of feminism and emphasizing the legal, economic, political, and social constructions of race, class, gender, and sexuality. This is a Writing in the Discipline (WID) course.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

GEND 201W - Introduction to Feminist Inquiry (4)

Students explore central concerns of feminist research and analysis, including epistemologies, methodologies, and pedagogy as they relate to the body, language, labor, sexuality, race, and nation. This is a Writing in the Discipline (WID) course.

Prerequisite: GEND 200 or GEND 200W with a minimum grade of C for the major or minor.

Offered: Fall.

GEND 205 - Introduction to Queer Theory (4)

Students are introduced to the field of queer studies through the lens of intersectionality, examining interdisciplinary perspectives in topics including:  the history of sexuality, representations, identities, and social movements.

Offered: Fall.

GEND 261 - Resisting Authority: Girls of Fictional Futures (4)

Young adult dystopian novels examine adolescent angst across the backdrop of authoritarian oppression, often featuring a female hero. Students will analyze classic and contemporary texts through a gender perspective.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Spring (alternate years).

GEND 262 - Lights, Camera, Gender!: Gender in Film (4)

Students explore how American movies represent and construct femininities and masculinities, by looking at representations of gender in films from various genres and decades.

General Education Category: Connections (C)

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and at least 45 credits.

Offered: Fall.

GEND 351 - Men and Masculinities (4)

Students examine how patriarchy helps and harms men, replacing a “singular masculinity” with “multiple masculinities” informed by class, race, ethnicity, sexuality, ability, nation, religion and gender identity.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: As needed.

GEND 352 - Feminist Theory (4)

Building on the concepts introduced in GEND 200, students study contemporary feminist theory in depth and explore a range of interdisciplinary approaches.

Prerequisite: GEND 201 or GEND 201W or consent of director.

Offered: Fall.

GEND 353 - The Holocaust: Women and Resistance (4)

Using an interdisciplinary approach, students expand on traditional academic approaches to the Holocaust and explore gender differences in the experiences, responses, and forms of resistance.

Prerequisite: Completion of at least 45 college credits or consent of director.

Offered: As needed.

GEND 355 - Women and Madness (4)

Students consider patriarchal power, race, class and sexual identity in the development of the concept of women’s ‘madness,’ and examine it from historical, psychological, literary, social and feminist perspectives.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Alternate years.

GEND 356 - Class Matters (4)

Focus is on the construction, reproduction, and representation of class in modern America; the impact of social and economic structures on opportunities, identities, and values; and intersections with gender and race.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Fall.

GEND 357 - Gender and Sexuality (4)

Students examine how the social construction of gender and issues of power, dominance, and resistance affect the practice and regulation of sexuality.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Fall.

GEND 358 - Gender-Based Violence (4)

Students examine forms and types of gender-based violence, including sexual assault and intimate partner, socio-cultural, economic and political violence in the United States with a secondary discussion of global violence.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Alternate years.

GEND 400 - Internship in Gender and Women’s Studies (4)

Students engage in experiential learning and participate in a selected public or private agency/organization. Each student formulates specific learning objectives under the direction of an instructor.

Prerequisite: GEND 200 or GEND 200W, junior or senior standing and consent of program director following an interview.

Offered: As needed.

GEND 416 - Women’s Health (4)

Students examine women’s health from a holistic, and interdisciplinary perspective. Personal, social, cultural, and societal influences on the health of women, health disparities and effective health promotion efforts are explored. Students cannot receive credit for both HPE 416 and GEND 416.

Prerequisite: 45 credit hours or consent of department chair.

Cross-Listed as: HPE 416.

Offered: Annually.

GEND 461 - Seminar in Race, Gender, and Class (4)

Students examine how race, gender, and class—interconnected systems that shape individual and collective social experiences—are constructed, experienced, and negotiated within specific historical eras and locations.

Prerequisite: 60 credit hours; major in Africana studies or gender and women's studies; or consent of program director.

Offered: Spring.

GEND 491 - Independent Study I (4)

In the first semester of their senior year, students undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Admission into the gender and women’s studies honors program and consent of instructor, program director and dean.

Offered: As needed.

GEND 492 - Independent Study II (4)

In the second semester of their senior year, students prepare a final draft of their honors essay and submit it to the department for acceptance.

Prerequisite: GEND 491 and consent of instructor, program director and dean.

Offered: As needed.

# GED - General Education

GED 262 - Native American Narratives (4)

Contemporary Native American literary genres by indigenous authors/artists in the United States and Canada are introduced and analyzed using narrative theory.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

# GEOG - Geography

GEOG 100W - Introduction to Environmental Geography (4)

Focus is on the nature and extent of human modification of the earth's natural environments.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

GEOG 101 - Introduction to Geography (4)

Cultural and physical elements of geography are considered individually, in interrelationship, and as these elements are found in real patterns of political, cultural, and economic associations.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

GEOG 200 - World Regional Geography (4)

The geographic elements of major world areas are assessed. Focus is on physical and cultural elements in a comparative context. (Formerly GEOG 400: Regional Geography.)

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

GEOG 201 - Mapping Our Changing World (4)

Basic mapping theories, models, and techniques enable students to become knowledgeable, critical consumers of the geographic data that is promulgated by government, industry, and the popular media.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Gen. Ed. Mathematics.

Offered: Fall, Spring.

GEOG 202 - Geographic Information Systems I (4)

Introductory concepts and techniques, with hands-on laboratory experience, enable students to produce their own GIS maps of human and environmental phenomena.

Offered: Spring.

GEOG 205 - Earth's Physical Environments (4)

Atmospheric, oceanic, and landform processes are studied as they shape and give character to the surface of the earth.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Gen. Ed. Mathematics.

Offered: Fall, Spring.

GEOG 206 - Disaster Management (4)

Focus is on societal responses to disasters and the systems created to deal with such phenomena. Included are causes of disasters and plans formulated to cope with them. (Formerly GEOG 300.)

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

GEOG 261 - Globalization, Cities and Sustainability (4)

The consequences of migration to the world's great cities are studied in comparative context. The forces of globalization and the prospects for more sustainable communities in the 21st century are examined. Hybrid course.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Spring.

GEOG 301 - Natural Resource Management (4)

The extent and variety of natural resource use is examined, as well as the environmental impacts thereof, and the management philosophies and efforts to regulate this use for the benefit of contemporary and future populations.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 303 - Historical Geography of the United States (4)

The historical development of the United States is examined from a geographical perspective. Emphasis is on the interaction of physical and cultural elements that contribute to the emergence of distinctive landscapes.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 304 - Geography of Rhode Island (4)

Discussion centers on the geographic elements in the history and development of Rhode Island. Rhode Island's place in the New England, national and world scenes is assessed.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 307 - Coastal Geography (4)

The diverse geographic aspects of the land-sea interface are analyzed. Topics include coastal geomorphology and climate, fisheries and other natural resources, patterns of land use and coastal regionalism.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 308 - Geographic Information
Systems II (4)

GIS is used by students in the computer laboratory to produce complex, multi-layered maps of various spatial phenomena at a level designed to promote proficiency with the latest analytical software.

Prerequisite: GEOG 202.

Offered: As needed.

GEOG 309 - New England Landscapes Pre-1900 (3)

New England's rich legacy of historical landscapes form the basis for this field-trip course. Topics include urbanization, traditional land uses, industrialization, leisure landscapes, maritime activities, and the evolution of landscape architecture.

Prerequisite: Completion of any course in a social science or consent of department chair.

Offered: Summer.

GEOG 310 - New England Landscapes since 1900 (3)

Field studies are conducted of maturing twentieth-century New England landscapes. Topics include the coastal zone, the metropolis, the rural/urban fringe and rural New England.

Prerequisite: Completion of any course in a social science or consent of department chair.

Offered: Summer.

GEOG 337 - Urban Political Geography (3)

Geographic and political analyses are used to study the growth of cities. Discussion includes the role of cities on local, national, and world scales. Students cannot receive credit for both GEOG 337 and POL 337.

Prerequisite: Completion of any 100- or 200-level geography or political science course, or consent of department chair.

Offered: As needed.

GEOG 338 - People, Houses, Neighborhoods, and Cities (3)

City planning and housing development are studied within the context of how and why neighborhoods change over time. Attention is given to land use plans, zoning maps, and the city building process.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 339 - Metropolitan Providence: Past, Present, and Future (3)

The historic growth, subsequent decline, and modern renaissance of Providence are examined. Topics include local politics, public policies, and major public building projects.

Prerequisite: Any 100- or 200-level geography course or consent of program director.

Offered: As needed.

GEOG 401 - Geography for Social Studies Educators (4)

An introduction to teaching human geography and the spatial aspects of social studies.

Prerequisite: Admission to a secondary education teacher preparation program or consent of department chair.

Offered: Spring.

GEOG 460W - Senior Seminar: Theory and Research (4)

The evolution of geographic theories and philosophies is examined, along with their application to contemporary research problems. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 15 credit hours of geography courses.

Offered: Spring.

GEOG 463 - Internship in Geography (4-6)

This internship, normally taken in the senior year, provides on-the-job experience in applied professional geography. Normally this involves a negotiated number of hours per week working in either a private firm or public agency.

Prerequisite: Consent of instructor.

Offered: Fall, Spring, Summer.

GEOG 470 - Reading Course in Geography (1-4)

Directed reading under the guidance of a geographer is determined on the basis of the student's and the instructor's interests.

Prerequisite: Consent of program director.

Offered: Fall, Spring, Summer.

GEOG 490 - Directed Study in Geography (1-4)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of department chair, instructor with whom student wishes to work, and dean.

Offered: As needed.

# GRMN - German

GRMN 101 - Elementary German I (4)

Students learn to understand, speak, read, and write in German and gain an understanding of German life and character. Online work is required. Not open to students who have admission credit in German.

Offered: Fall.

GRMN 102 - Elementary German II (4)

Four skills in elementary German—listening, speaking, reading, and writing—are further developed within the context of German culture. Online work is required.

General Education Category: Satisfies Gen, Ed, language requirement

Prerequisite: GRMN 101 or one year of secondary school German, or consent of department chair.

Offered: Spring.

# GRTL - Gerontology

GRTL 303 - Fountain of Age (4)

The impacts of aging at the individual, interactional, and societal level are examined, with ethical, public policy and economic challenges considered. Historical, cross-cultural and gender variations in aging are explored. Students cannot receive credit for both GRTL 303 and SOC 303 or SOC 261.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: As needed.

GRTL 314 - Health and Aging (4)

An interdisciplinary approach is taken to the health/mental health of older adults. Normal aging is compared to disease/disorders. Students cannot receive credit for both GRTL 314 and NURS 314.

Prerequisite: Completion of at least 45 credit hours.

Offered: Fall, Spring, Summer.

# GLOB - Global Studies

GLOB 200W - Global Studies and the World (4)

Students examine the global studies field, current global issues, and the historical, social, cultural, religious, and political nature of particular geographic regions or countries of their interest. This is a Writing in the Discipline (WID) course.

Offered: Fall, Spring.

GLOB 356 - The Atlantic World (4)

A comparative study of the linkages and interactions among Europe, Africa and the Western Hemisphere, which profoundly affected the historical development of each continent.

Prerequisite: HIST 200 or GLOB 200 GLOB 200 or GLOB 200W, 45 credits and at least two 300 level or above courses from the Global Studies program, or consent of program director.

Offered: As needed.

GLOB 461W - Seminar in Global Studies (4)

Building on methods from GLOB 200W, emphasis is on global issues, the identification and definition of global problems, the research and writing of a substantial paper and global studies criticism. Students cannot receive credit for both GLOB 461 or GLOB 461W and HIST 361. This is a Writing in the Discipline (WID) course.

Prerequisite: 60 credits, and at least four of the Global Studies 300 level or above distribution courses, or consent of program director.

Offered: Fall, Spring.

# GRK - Greek

GRK 101 - Introduction to Attic Greek (4)

This is an introduction to Attic Greek, with focus on grammar, syntax, and translation of basic texts in ancient Greek.

Offered: Fall.

# HCA - Health Care Administration

HCA 201W - Introduction to Health Care Systems (3)

Students analyze organizational structure, resources, current technology, informational systems, outcome measures, safety initiatives, health care policy and ethics. The consumer's central role in health care decision making is examined. Students cannot receive credit for HCA 201 and NURS 201. This is a Writing in the Discipline (WID) course.

Prerequisite: A major in health care administration or consent of department chair.

Offered: Fall, Spring, Summer.

HCA 302 - Health Care Organizations (3)

The unique aspects of health care organizations are examined. Topics include governance, leadership challenges, performance improvement, finance, ethics and regulation. Comparisons are made to traditional business organizations. Students cannot receive credit for HCA 302 and NURS 302.

Prerequisite: HCA 201 or HCA 201W or NURS 201, or consent of department chair.

Offered: Fall, Spring.

HCA 303W - Health Policy and Contemporary Issues (3)

Policymaking processes and current policies affecting delivery of health care for individuals and populations are examined. Effectiveness, impact on cost, accessibility and quality of care are analyzed. Students cannot receive credit for HCA 303W or HCA 303 and NURS 303.  This is a Writing in the Discipline (WID) course.

Prerequisite: HCA 201 or HCA 201W or NURS 201, or consent of department chair.

Offered: Fall, Spring.

HCA 330 - Health Care Finance (3)

Fundamental principles of the financial management of healthcare organizations are presented. Topics include financial and managerial accounting, managerial finance and the unique features of healthcare financing and reimbursement.

Prerequisite: MGT 201 or MGT 301.

Offered: Annually.

HCA 355 - Quality Management/Improvement in Health Care (3)

This course provides an overview of quality improvement in health care organizations. Quality management models, approaches, tools and techniques are presented in the context or organizational leadership and culture. Students cannot receive credit for both MGT 355 and HCA 355.

Prerequisite: HCA 302 or NURS 302, MGT 201 or MGT 301 and MATH 240.

Offered: Fall, Spring.

HCA 401W - Ethical and Legal Issues in Health Care Management (3)

Ethical and legal issues in health care are examined. Topics include ethical theories and bioethics, legal and regulatory systems, and patients' rights and responsibilities. Students cannot receive credit for both HCA 401 and HCA 501. Students cannot receive credit for both NURS 401 and HCA 401 or HCA 501.

Prerequisite: HCA 201 or HCA 201W or NURS 201, or consent of instructor.

Cross-Listed as: HCA 501.

Offered: Fall, Spring, Summer.

HCA 402 - Health Care Informatics (3)

Informatics in health care are examined. Topics include essential computer components and internet structure, electronic medical records, clinical decision support and user/computer interfaces. Students cannot receive credit for HCA 402 and NURS 402.

Prerequisite: CIS 252 or consent of instructor.

Offered: As needed.

HCA 403 - Long-Term Care Administration (3)

Theories and principles of management and leadership in nursing homes are explored. This course explores the needs of residents and their families and the role of the nursing home administrator in meeting those needs.

Prerequisite: MGT 201 or MGT 301.

Offered: Annually.

HCA 404 - Long-Term Care Laws and Regulations (2)

Long-term care laws and regulations are studied. This course focuses on retrieval and understanding of laws and regulations, as well as practical methods and tools for successful compliance.

Prerequisite: MGT 201 or MGT 301.

Offered: Annually.

HCA 461W - Seminar in Strategic Health Care Management (3)

In this capstone course, students integrate concepts and apply theories learned in previous courses to develop strategic perspectives and skills critical to the administration of health care organizations. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of all required and cognate courses in the health care administration major, except for electives and HCA 467.

Offered: As needed.

HCA 467 - Internship in Health Care Administration (4)

Students receive on-the-job training, applying concepts learned in the health care administration program to a real-world health care environment.

Prerequisite: Completion of all major and cognate courses (except for electives and HCA 461 or HCA 461W) or be concurrently enrolled in any outstanding courses; or consent of program director.

Offered: Fall, Spring, Summer.

HCA 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Admission into the HCA honors program and consent of instructor, program director and dean.

Offered: As needed.

HCA 491 - Independent Study I (3)

This course emphasizes the development of research for students admitted to the HCA honors program. The research topic is selected and research conducted under the mentorship of a faculty advisor.

Prerequisite: Admission into the HCA honors program and consent of instructor, program director and dean.

Offered: As needed.

HCA 492 - Independent Study II (3)

This course continues the development of research begun in HCA 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: HCA 491 and consent of instructor, program director and dean.

Offered: As needed.

HCA 501 - Health Law and Ethics (3)

Health Law and Ethics examines the legal aspects of health services management. Topics include consumer protection, the patient/physician relationship, patient information management, professional liability, medical malpractice and public duties. Students cannot receive credit for both HCA 401 and HCA 501, or NURS 401.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Cross-Listed as: HCA 401.

Offered: Fall, Spring, Summer.

HCA 502 - Health Care Systems (3)

This course will provide an overview of the U.S. health care system and explore organization, financing, management, resources and performance of the U.S. health system, making comparisons to other developed nations.

Prerequisite: Acceptance into the HCA graduate program or persmission of program director.

Cross-Listed as: NURS 502

Offered: Fall, Spring.

HCA 503 - Health Care Policy (3)

Health Care Policy provides an overview of U.S. health policies and their implications with study of the policy making process and analytical approaches to decision making. Critical issues in health policy are analyzed.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Cross-Listed as: NURS 705

Offered: Fall, Spring.

HCA 514 - Economics of Health Care (3)

Health policy is examined from an economic perspective in this offering. Basic economic theories and their relationships to the structure and function of the U.S. health care system are explored.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Offered: Fall.

HCA 520 - Health Care Human Resource Management (3)

This course overviews the HR issues, programs and systems used to balance organizational and employee goals. Special attention will be paid to application of HRM in health care settings.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Offered: Fall.

HCA 530 - Health Care Finance (3)

Students will apply financial theory to healthcare organizations. Students will understand profit/loss, managing resources, break-even analysis, accounts receivable, labor, supplies, reimbursement systems and financial incentives.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Offered: Fall.

HCA 537 - Performance Improvement in Health Care (3)

This course provides an overview of quality improvement for health care leaders. Quality management models, approaches, tools, and techniques are presented in the context of organizational culture and leadership.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Offered: Fall, Spring.

HCA 539 - Biostatistics (3)

This course objective is to introduce bio-statistical methods and its underlying principles of “how to perform” and “how to interpret” the statistical analysis in decision making of public health problems.

Prerequisite: Graduate status or consent of program director.

Offered: Fall, Spring.

HCA 540 - Research Methods and Statistical Analysis (3)

Research methods and statistical analysis develops statistical reasoning through the application of statistical techniques to managerial and health related problems. Statistical and analytical techniques used in public health/health care management are covered.

Prerequisite: HCA 539 or equivalent course and basic knowledge of algebra.

Offered: Fall.

HCA 545 - Managing Health Care Organizations (3)

Student explore the principles and processes that inform health care management. Service delivery, program design, strategic positioning, service marketing, cultural acuity, collaboration and competition will be used to understand some of the unique challenges in the ever-changing health care sector.

Prerequisite: Acceptance into the HCA graduate program or persmission of HCA program director.

Offered: Spring.

HCA 547 - Transformational Leadership in Health Care Organizations (3)

Current leadership ideas focusing on leadership styles, motivation, teamwork, change management, innovation, creativity, emotional intelligence, organizational learning and culture will be studied in this course.

Prerequisite: Acceptance into the HCA graduate program and HCA 502 or persmission of program director.

Offered: Spring.

HCA 560 - Contemporary Topics in Health Care (2)

Students will be exposed to relevant seminars, speakers and contemporary issues in health care that present current and innovative approaches to health care delivery and management.

Prerequisite: All courses in the HCA program must be completed except HCA 591 or persmission of program director.

Offered: Fall, Spring.

HCA 567 - Health Care Internship (3)

This course will enable HCA students to apply health care competencies acquired in the classroom setting to real-world health care environments. By working in health care organizations, students will learn to integrate health care theory with practice.

Prerequisite: Graduate status, HCA 501, HCA 502, HCA 503, HCA 530, HCA 537, and HPE 507 or persmission of program director.

Offered: Fall, Summer.

HCA 570 - Managing Behavioral Health Organizations (3)

This course will address management of behavioral health organizations. The scope of behavioral health services from prevention to inpatient and residential care will be presented including structure, financing and system delivery.

Prerequisite: HCA 502.

Offered: Fall.

HCA 591 - Master’s Thesis in Health Care Administration (3)

This course is for HCA M.S. candidates who are preparing a thesis under the supervision of a faculty member. Students will take this course in their final semester and complete research for and write a master's thesis on a health-related topic that has been approved by the Health Care Administration graduate program director or by their graduate advisor.

Prerequisite: Completion of all required HCA graduate courses with the exception of HCA 567 or persmission of program director.

Offered: Fall, Spring, Summer.

# HPE - Health and Physical Education

HPE 101 - Human Sexuality (3)

This is an introduction to human sexuality through multidisciplinary research and theory. Attention is given to sociological perspectives. Guest lectures and films add to the breadth of approach.

Offered: Fall, Spring, Summer.

HPE 102 - Human Health and Disease (3)

Students examine factors influencing personal health and wellness and disease etiology through engaging learning strategies. Focus is on personal health promotion, disease prevention and associated health behaviors.

Offered: Fall, Spring, Summer.

HPE 105 - Bowling (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 109 - Swimming Beginning (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 credit hours.

Offered: Fall, Spring.

HPE 110 - Mind-Body Stress Reduction (1)

In this experiential course, students learn mindfulness-based stress reduction skills, including meditation and Hatha yoga, and explore the practice of nonjudgmental awareness in daily life. This is an eight-week course. 2 contact hours.

Offered: Fall, Spring.

HPE 111 - Field Hockey (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 credit hours.

Offered: As needed.

HPE 115 - Fundamentals of First Aid and Cardiopulmonary Resuscitation (2)

Fundamental principles and skills of basic first aid and cardiopulmonary resuscitation (CPR) are presented. Upon satisfactory completion of each unit, appropriate certification is available. This is an eight-week course. 4 contact hours.

Offered: Fall, Spring, Summer.

HPE 118 - Lacrosse (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 119 - Lifesaving (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: Fall.

HPE 120 - Beginning Yoga (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: Fall, Spring.

HPE 121 - Restorative Yoga (1)

Students are brought into a state of deep relaxation with the intention of healing and restoring the physical body. This is an eight-week course. 4 contact hours.

Offered: Fall, Spring

HPE 122 - Softball (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 123 - Outdoor Activities (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 124 - Swimming Intermediate (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: Spring.

HPE 125 - Soccer (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 126 - Track and Field (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 127 - Zumba (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: Fall, Spring.

HPE 128 - Volleyball (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 129 - Weight Training (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 131 - Golf (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week courses. 4 contact hours.

Offered: As needed.

HPE 132 - Educational Gymnastics (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 133 - Tennis (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 134 - Dance Aerobics (1)

The development of fundamental skills to promote participation in this activity is stressed. Social skills, strategies, and rule interpretations relevant to each activity are included. This is an eight-week course. 4 contact hours.

Offered: As needed.

HPE 140 - Foundations: Physical Education and Exercise Science (3)

Students are introduced to professionalism, careers and educating in movement-based settings. Included is an analysis of various historical, philosophical and sociocultural factors.

Offered: Fall, Spring.

HPE 152 - Introduction to Outdoor Recreation (3)

Students develop skills in select outdoor activities and are exposed to a range of outdoor recreational pursuits, including Outward Bound/Adventure-type activities. 4 contact hours.

Offered: As needed.

HPE 200W - Promoting Health and Well-Being in Schools (3)

Students develop competencies in content knowledge and skills to address critical health issues facing children and youth. Application of strategies to promote healthy behaviors and well-being in schools are explored. This is a Writing in the Discipline (WID) course.

Offered: Fall, Spring.

HPE 201 - Prevention and Care of Athletic Injuries (3)

Students acquire a basic understanding of sports medicine. Topics include preventive techniques, basic anatomy, injury recognition and rehabilitation of athletic injuries. 4 contact hours.

Offered: Spring.

HPE 202W - Community/Public Health and Health Promotion (3)

Students investigate public health and health promotion and their impacts on individual and community health.  Focus is on health care systems; technology use; and professional philosophies, responsibilities and opportunities.  This is a Writing in the Discipline (WID) course.

Offered: Fall, Spring.

HPE 205 - Conditioning for Personal Fitness (3)

Students develop personal fitness through participation in a variety of supervised activities and develop a knowledge base necessary to design their own fitness programs. Fitness-related topics and fitness testing are also included. 4 contact hours.

Offered: Fall, Spring.

HPE 210 - Nutrition Education and Promotion (3)

Students explore the science of nutrition and its application to health education. The study of nutrients, dietary guidelines, current problems, healthy-eating promotion and nutrition education methods are covered.

Prerequisite: HPE 200 or HPE 200W, or consent of department chair.

Offered: Spring.

HPE 221 - Nutrition (3)

Students study fundamental principles of human nutrition, application of nutrition concepts in dietary practice, relationship between diet nutrition, and human health, along with approaches to support healthy eating habits.

Offered: Fall, Spring.

HPE 233 - Social and Global Perspectives on Health (3)

Students explore social, global and population perspectives on health, health equity and social justice. Sociocultural factors influencing health decision-making are studied. Health behavior theories are integrated. Advocacy skills are developed.

Prerequisite: 24 credit hours or consent of department chair.

Offered: Fall, Spring, Summer.

HPE 243 - Motor Development and Motor Learning (3)

Through lecture and lab experiences the fundamentals of motor development and motor learning theories are explored. Studies focus on the effects of growth and developmental factors throughout the lifespan.

Offered: Fall, Spring.

HPE 244 - Group Exercise Instruction (3)

Students will augment existing fitness abilities with knowledge and skills on how to design and teach group exercise classes based on exercise physiology concepts and professional standards.

Prerequisite: HPE 205 and HPE 243 or consent of department chair.

Offered: Spring.

HPE 252 - Camping and Recreational Leadership (3)

The philosophy and problems of camping and recreational leadership are studied. The principles, practices, processes and techniques of leadership are studied in depth. Lecture and laboratory.

Offered: As needed.

HPE 253 - Introduction to Therapeutic Recreation (3)

Students are introduced to the history, concepts and philosophy of therapeutic recreation in community and institutional settings. Field trips and on-site observations are included.

Offered: As needed.

HPE 278 - Coaching Skills and Tactics (3)

Skill development and tactical awareness are introduced. Students acquire the ability to explain, demonstrate, analyze and provide feedback for physical movements while coaching players of all ages.

Prerequisite: HPE 243.

Offered: Fall, Spring.

HPE 300 - Health Education and Health Promotion Pedagogy (3)

Students study effective health education and health promotion in school and community settings, teaching models and pedagogical approaches that support health. Observation, instruction and reflection skills are developed and practiced.

Prerequisite: Minimum cumulative GPA of 2.75 and admission into the health education teacher preparation program, or community and public health promotion program, or consent of department chair.

Offered: Fall, Spring.

HPE 301W - Principles of Teaching Activity (3)

Techniques of activity presentation are studied, including the task, problem-solving and guided discovery methods. Individual philosophies of teaching are considered. Supervised teaching experiences are included. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 140 and HPE 243; and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Spring.

HPE 303W - Research in Community and Public Health (3)

Students investigate core public health concerns. Using population health databases, students write a policy-focused research paper. Topics include health determinants and disparities, communicable and chronic disease, and levels of prevention. This is a Writing in the Discipline (WID) course.

Prerequisite: : HPE 202 or HPE 202W and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Spring.

HPE 305 - Advanced Prevention and Care of Athletic Injuries (3)

Preventative screening, pathomechanics of injury and evaluation techniques are analyzed. Relying heavily on the case-study approach, laboratory sessions include opportunities for supervised practice and the application of training procedures.

Prerequisite: HPE 201.

Offered: As needed.

HPE 307 - Introduction to Epidemiology (3)

This course provides students with an understanding of the basic concepts, principles and methods of epidemiology as applied to studies of both infectious and chronic diseases.

Prerequisite: HPE 102, HPE 202 or HPE 202W, and 30 credit hours or consent of department chair.

Offered: Fall, Spring.

HPE 308 - The Science of Coaching (3)

Scientific aspects of coaching, motor skill acquisition, sport psychology and developmentally appropriate sport programs are analyzed. Emphasis is on coaching philosophy, methodology as well as ethics in coaching.

Prerequisite: HPE 205, HPE 243 and HPE 278, or consent of department chair.

Offered: Spring.

HPE 309W - Exercise Prescription (3)

Students will learn how to prescribe appropriate and effective personalized fitness programs. Lectures, practical applications and case studies allow for effective practice designing programs for all populations. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 205 and HPE 243 or consent of department chair.

Offered: Fall.

HPE 310 - Strength and Conditioning for the Athlete (3)

Students will explore the roles and responsibilities of strength and conditioning specialists and acquire skills to design and instruct strength programs for athletes and clients desiring higher level performance.

Prerequisite: BIOL 231.

Offered: Fall.

HPE 313 - Elementary Activities (3)

Basic competencies are developed to build a movement framework for children (BSER framework). Included are exploration related to locomotor, non-locomotor, manipulative and creative movement concepts at the elementary level.

Prerequisite: 12 credit hours, including HPE 243, or consent of department chair.

Offered: Fall.

HPE 314 - Middle School Activities (3)

Basic competencies are developed to enhance skill development. Included are skill analysis, development of strategies and tactics of individual/dual, team, adventure education and rhythmic activities at the middle school setting.

Prerequisite: HPE 301 and 313, or consent of department chair.

Offered: Fall.

HPE 315 - High School Activities (3)

Basic competencies are developed to enhance skill development. Included are skill analysis, development of strategies and tactics of individual and dual/team, adventure education and rhythmic activities in the high school setting.

Prerequisite: HPE 314; consent of department chair.

Offered: Fall.

HPE 325 - Assessment in Physical Education (2)

Teacher candidates learn evidence-based practices that measure student achievement in all areas of physical education instruction.

Prerequisite: HPE 301, or concurrent enrollment in HPE 301, or consent of department chair.

Offered: Fall.

HPE 326 - Assessment in Health Education (2)

Students will design, administer and analyze skills-based health education assessment instruments.

Prerequisite: HPE 300.

Offered: Spring.

HPE 340 - Sexual Health Education and Promotion (3)

Students explore human sexuality concepts and apply them to the design, delivery and assessment of developmentally and culturally appropriate sexual health educational interventions in school and community settings.

Prerequisite: 24 credit hours or consent of department chair.

Offered: Fall.

HPE 344 - Infant Toddler Health and Wellness (3)

Students explore infant/toddler development including physical health, motor development and impact of environmental, socioeconomic and cultural influences on development. Basic health, safety and nutritional practices are also studied.

Prerequisite: ECED 202, ECED 232, ECED 310, ECED 312, ECED 314, ECED 410 and SPED 301 (B- or higher).

Offered: Fall.

HPE 345 - Wellness for the Young Child (3)

Wellness topics for early childhood education (B-8) programs are addressed. This course includes experiences in teaching specific basic wellness topics (e.g., health, safety, nutrition and overall wellness). Hybrid course.

Prerequisite: Admission to the ECED Program or consent of the Health and Physical Education department chair.

Offered: Spring, Summer.

HPE 346 - Pedagogical Skills in Elementary Health/Physical Education (3)

Basic principles of comprehensive health education and physical education programs for elementary schools are addressed. 4 contact hours.

Prerequisite: Admission to the Feinstein School of Education and Human Development.

Offered: Fall, Spring, Summer.

HPE 356 - Recreation Practicum (4)

Students assist in the development, presentation and evaluation of leisure-time activities in community, agency, school or college settings. Lecture and field experience. 7 contact hours.

Prerequisite: HPE 151 and HPE 252.

Offered: As needed.

HPE 390 - Independent Study in Physical Education (1)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of department chair.

Offered: As needed.

HPE 403 - Environmental Health (3)

Students survey environmental health from holistic and interdisciplinary perspectives. They examine the interactive nature of natural and anthropogenic environments, and their impacts on community and population health and health promotion.

Prerequisite: 45 credit hours or consent of department chair.

Offered: Annually.

HPE 404 - School Health and Physical Education Leadership (3)

Topics include practical organizational and administrative content and skills, consideration for program planning, teacher evaluation, curriculum, policies, leadership, technology and standards for health education, physical education and extracurricular activities.

Prerequisite: HPE 414 or HPE 414W, or HPE 418 or HPE 418W, or concurrent enrollment in HPE 414W, or HPE 418W, or consent of department chair.

Offered: Spring.

HPE 406 - Program Planning in Health Promotion (3)

Students take systematic approaches to developing interventions and programs that promote healthy communities. Planning models, needs assessments, behavior change theories, social marketing, program implementation and evaluation methodologies are addressed.

Prerequisite: HPE 303; a minimum cumulative GPA of 2.75; or consent of the department chair.

Offered: Spring or as needed.

HPE 408 - Coaching Applications (3)

Effective planning, implementation and evaluation of practice and game management, as well as seasonal responsibilities of the coach, are analyzed. Includes field work in coaching.

Prerequisite: HPE 201, HPE 205, HPE 243, HPE 278, HPE 308, and current first aid/CPR (infant, child, and adult with AED) certification.

Offered: Fall.

HPE 409 - Adapted Physical Education (3)

Individual differences that affect motor learning and performance are considered. Individual educational programs in adaptive, developmental, corrective and inclusive physical education are designed. Laboratory is included.

Prerequisite: SPED 333 and concurrent enrollment in or completion of HPE 413 or HPE 414.

Offered: Spring.

HPE 410 - Managing Stress and Mental/Emotional Health (3)

Students explore connections between mental and physical health as related to managing stress. Activities include the identification of sources, the identification of the impact of stress on health, and the implementation of stress management techniques.

Prerequisite: 45 credit hours or consent of department chair.

Offered: Fall, Spring.

HPE 411 - Kinesiology (3)

The effects of physical and anatomical principles on the performance of motor patterns are studied and the mechanical analysis of specific activities are analyzed.

Prerequisite: BIOL 231, HPE 313 (for HPE majors) or HPE 278 (for WES majors) and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Summer.

HPE 413 - Practicum in Elementary Physical Education (3)

Practice creating and implementing developmentally appropriate lessons associated with rhythmic, individual, dual, team and adventure activities at the elementary level. Includes observations and supervised teaching experiences in PK-5 settings. (Formerly Practicum in Creative Movement and Dance.) 4 contact hours.

Prerequisite: HPE 301, HPE 313 and HPE 314; admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Spring.

HPE 414W - Practicum In Secondary Physical Education (3)

Practice creating and implementing developmentally appropriate lessons associated with rhythmic, individual, dual, team and adventure activities at the secondary level. Includes observations and supervised teaching experiences in 6th-12th grade settings. (Formerly Practicum in Individual and Dual Activities.) 6 contact hours. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 314 and HPE 315; admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Spring.

HPE 415 - Teaching/Assessment in Adapted Physical Education (3)

Students assess individuals to determine if APE services are needed. Creating/implementing lesson plans in gross motor function, instructional tools and IEP’s are practiced. Supervised teaching in school settings are included.

Prerequisite: HPE 409 and SPED 433 with a minimum grade of B-; or consent of department chair.

Offered: Fall.

HPE 416 - Women’s Health (4)

Students examine women’s health from a holistic, and interdisciplinary perspective. Personal, social, cultural, and societal influences on the health of women, health disparities, and effective health promotion efforts are explored. Students cannot receive credit for both HPE 416 and GEND 416.

Prerequisite: 45 credit hours or consent of department chair.

Cross-Listed as: GEND 416.

Offered: Annually.

HPE 417 - Practicum in Elementary Health Education (3)

Students prepare and implement skills-based school health education lessons for the elementary student. Included are planning and implementation of a unit plan and a supervised teaching experience.

Prerequisite: HPE 300 or consent of department chair.

Offered: Fall.

HPE 418W - Practicum in Secondary Health Education (3)

Students prepare and implement skills-based school health education for the secondary student. Included are development of a unit plan and a supervised teaching experience. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 417 or consent of department chair.

Offered: Spring.

HPE 419 - Practicum in Community and Public Health (3)

Students gain experience designing, implementing and evaluating community and public health and disease prevention programs and interventions. Focus includes health policy as it applies to health promotion and population health.

Prerequisite: BIOL 231, BIOL 335; HPE 406; a minimum cumulative GPA of 2.75; or consent of department chair.

Offered: Fall.

HPE 420 - Physiological Aspects of Exercise (3)

Topics range from the physiological response of the human muscular and cardiorespiratory systems to the acute and chronic effects of physical activity. Lecture and laboratory. 4 contact hours.

Prerequisite: BIOL 335 and admission to the physical education teacher preparation program or consent of department chair.

Offered: Fall, Spring.

HPE 421 - Senior Lecture: Wellness and Exercise Science (3)

Under the guidance of the instructor and cooperating professional, students gain the practical experience in wellness and exercise science environments. Students explore research topics and internships opportunities. 4 contact hours.

Prerequisite: HPE 309W; a minimum cumulative GPA of 2.75; or consent of the department chair.

Offered: Fall.

HPE 422W - Student Teaching Seminar in Health Education (2)

Teacher candidates explore current trends and topics in education. Communication, collaboration and leadership skills are applied to the health education setting. Students develop skills for the job application process. This seminar meets weekly. This is a Writing in the Discipline (WID) course.

Prerequisite: Concurrent enrollment in HPE 424.

Offered: Fall, Spring.

HPE 423W - Student Teaching Seminar in Physical Education (2)

Teacher behaviors appropriate to effective teaching are developed. Topics include classroom and time management, effective communication, learning styles and teaching strategies. This seminar meets weekly.

Prerequisite: Concurrent enrollment in HPE 425.

Offered: Fall, Spring.

HPE 424W - Student Teaching in Health Education (9)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U. This is a Writing in the Discipline (WID) course.

Prerequisite: Concurrent enrollment in HPE 422, passing score(s) on Praxis, approved Preparing to Teach Portfolio and other Feinstein School of Education and Human Development admission and retention requirements.

Offered: Fall, Spring.

HPE 425W - Student Teaching in Physical Education (9)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U. This is a Writing in the Discipline (WID) course.

Prerequisite: Concurrent enrollment in HPE 423, passing score(s) on Praxis, approved Preparing to Teach Portfolio and other Feinstein School of Education and Human Development admission and retention requirements.

Offered: Fall, Spring.

HPE 426W - Internship in Community and Public Health (10)

Students cultivate professional skills essential to the diverse fields of community and public health, including health education and health promotion, through a service-learning experience in health agencies or organizations. Graded S, U. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 419, minimum cumulative G.P.A. of 2.75, an approved Internship application, and completion of all required courses.

Offered: Fall, Spring, Summer.

HPE 427 - Internship in Wellness and Exercise (10)

Extensive application of professional and specialized skills essential to wellness and exercise science are implemented in a authentic settings. Graded S, U.

Prerequisite: HPE 421, concurrent enrollment in HPE 430, a minimum cumulative GPA of 2.75, successful completion of an internship application and completion of all required courses.

Offered: Fall, Spring, Summer.

HPE 428 - Educational Kinesiology and Exercise Physiology (3)

Teacher candidates explore physiological and biomechanical concepts needed to efficiently analyze and correct critical elements of motor skills and performance concepts in authentic PK-12 situations.

Prerequisite: BIOL 231, BIOL 335, and HPE 313; or consent of department chair.

Offered: Fall.

HPE 429 - Seminar in Community and Public Health (2)

Students participate in a professional learning community to share, analyze and reflect on internship and research experiences. Students further develop professional competencies in the field.

Prerequisite: Concurrent enrollment in HPE 426W.

Offered: Fall, Spring, Summer.

HPE 430 - Seminar in Wellness and Exercise (2)

In a professional learning community, students analyze, reflect and share internship experiences. Responsibilities and best practices of the profession are explored and developed.

Prerequisite: Concurrent enrollment in HPE 427.

Offered: Fall, Spring, Summer.

HPE 431 - Drug Education (3)

Standards-based strategies for drug education in school and community settings are explored. Impact of alcohol, tobacco and other drugs on dimensions of wellness, risk factors, prevention and trends are examined.

Prerequisite: HPE 300 or consent of department chair.

Offered: Fall.

HPE 434 - Health Education Student Teaching Capstone (1)

Teacher candidates are provided additional experiences to co-teach, teach and assess in the health education setting.

Prerequisite: Approved Preparing to Teach Portfolio and other Feinstein School of Education and Human Development admission and retention requirements.

Offered: Early Spring.

HPE 435 - Physical Education Student Teaching Capstone (1)

Teacher candidates are provided additional experiences to co-teach, teach and assess in the physical education setting. Graded S, U.

Prerequisite: Approved Preparing to Teach Portfolio and other Feinstein School of Education and Human Development admission and retention requirements.

Offered: Early Spring.

HPE 444 - Practicum in Adapted Physical Education (2)

Teaching candidates complete a capstone course on planning, teaching and evaluating individuals with disabilities in gross motor settings. The experience includes IEP meetings, logs, implementing formal evaluations and analyzing data.

Prerequisite: SPED 333, HPE 409 and HPE 415.

Offered: Early Spring.

HPE 451 - Recreation and Aging (3)

Students explore steps needed to plan, organize, conduct and evaluate recreation programs for the older population. Included are recreation programming, diverse recreation activity experiences and staffing considerations.

Prerequisite: Completion of at least 60 college credits or consent of department chair.

Offered: As needed.

HPE 500 - Introduction to Health Education and Health Promotion (3)

Focus is on the basic principles of health education and health promotion in school and nonschool settings. Included are the philosophy, ethics, responsibilities and practice of health education.

Prerequisite: Graduate status.

Offered: Fall.

HPE 501 - Curriculum Design in Health Education (3)

The development of curriculum in health education programs is considered with regard to individual and social needs.

Prerequisite: Graduate status and HPE 500 or consent of instructor.

Offered: Fall.

HPE 503 - Health Education Pedagogy (3)

Pedagogical practices within the field of health education, including an overview of health content, teaching strategies, standards-based learning and best practices, will be addressed in a hands-on setting.

Prerequisite: HPE 500 or consent of department chair.

Offered: Spring.

HPE 504 - Application of Health Content (3)

Students continue developing health education competencies through analytical study and practical experience. Critical analysis of health content, standard-based approaches, behavior theories, instructional planning, classroom management and assessment are addressed.

Prerequisite: HPE 503 or consent of department chair.

Offered: Fall.

HPE 505 - Principles of Program Development in Health Education (3)

Focus is on techniques, processes and models of developing health education programs in schools, communities, and work sites. Emphasis is on planning, implementation and evaluation strategies.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

HPE 507 - Epidemiology and Biostatistics (3)

Topics covered include statistical concepts, evaluation of health research literature, outcome measurements, health surveillance and determinants of health.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

HPE 508 - Psycho-Social Aspects of Human Movement (3)

Psychological and sociological constructs related to human movement and sport are analyzed. Topics include athletic leadership, coaching behavior and individual and societal-cultural factors related to human movement.

Prerequisite: Undergraduate degree in physical education or consent of department chair.

Offered: As needed.

HPE 509 - Teaching Sports through a Tactical Perspective (3)

Various sports are explored using student-centered, guided discovery instructional models. Games for understanding theory and curriculum are introduced. Emphasis is on developing cognitive off-the-ball and on-the-ball tactics.

Prerequisite: Undergraduate degree in physical education or consent of department chair.

Offered: As needed.

HPE 512 - Curriculum Construction in Physical Education (3)

Discussion of curricular models provide a foundation in designing a curriculum. Conceptual frameworks are used to guide decision-making processes in curriculum design.

Prerequisite: Undergraduate degree in physical education or consent of department chair.

Offered: As needed.

HPE 519 - Professional Development for Cooperating Teachers (3)

Cooperating teachers gain knowledge, tools and experience that help them prepare teacher candidates to meet professional requirements in health education. This course may be repeated after four years. Hybrid course.

Prerequisite: Graduate status and currently serving as a cooperating teacher, or consent of department chair.

Offered: As needed.

HPE 522 - Current Issues in Physical Education (3)

Current issues and how they relate to the fields of physical education, recreation and sport are examined. Particular attention is given to professional issues pertinent to class members.

Prerequisite: Undergraduate degree in physical education or consent of department chair.

Offered: As needed.

HPE 523 - Adventure Education (3)

Students are prepared for adventure education content knowledge and introduced to the principles of curriculum development for prekindergarten through grade 12. Students analyze and integrate adventure education into instruction.

Prerequisite: Undergraduate degree in physical education or consent of department chair.

Offered: As needed.

HPE 530 - Family Life and Sexuality Education (3)

Human sexuality issues and sexuality education principles are studied. Students develop those skills necessary for implementing school-based sexuality education programs.

Prerequisite: HPE 503 or consent of department chair.

Offered: Fall.

HPE 531 - Methods and Procedures for School Nurse Teachers (3)

Students examine the scope, principles and practices required of certified school nurse teachers in an educational setting. This course meets state certification requirements for school nurse teachers.

Prerequisite: Registered nurse with B.S. degree.

Offered: Spring.

HPE 561 - Evaluation and Assessment in Health Education (3)

This course is designed to provide health educators with the knowledge and skills to assess and evaluate health education lessons, programs and individual health behaviors and knowledge.

Prerequisite: HPE 504 and ELED 510 or consent of department chair.

Offered: Fall.

HPE 562 - Seminar in Health Education (3)

As a capstone experience for graduate students in health education, students learn to plan, implement and evaluate a health education program in the field.

Prerequisite: ELED 510 and completion of at least 18 additional credits in the M.Ed. in Health Education program, or consent of department chair.

Offered: Spring.

HPE 563 - Professional Ethics and Social Health Issues (3)

Current social health issues and the ethical codes of the profession are investigated and discussed. Sensitive, diverse, global issues are analyzed from the school and community health education perspective.

Prerequisite: Graduate status or consent of instructor.

Offered: Spring.

HPE 590 - Directed Study in Health Education (3)

Under faculty supervision, students initiate a formal inquiry into a significant health issue or problem.

Prerequisite: Graduate status, HPE 562; consent of advisor, department chair, and dean.

Offered: As needed.

HPE 591 - Directed Reading in Health Education (3)

Under faculty supervision, students engage in intensive reading on a specific health issue.

Prerequisite: Graduate status, HPE 500, HPE 501; consent of advisor, department chair, and dean.

Offered: As needed.

# HSCI - Health Sciences

HSCI 105 - Medical Terminology (2)

This course will provide students with a basic medical terminology vocabulary for use in the health care setting.

Offered: Fall, Spring.

HSCI 232 - Human Genetics (4)

Human genetics and biotechnology are presented in the context of health care and public health policy. These topics are explored using problem-based learning and case studies.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: BIOL 100, BIOL 108, or BIOL 111.

Offered: Fall.

HSCI 300 - Food Chemistry (3)

This course presents the basic composition, structure, and properties of foods, and the chemistry of changes occurring during processing, storage and use.

Prerequisite: CHEM 206

Offered: Fall.

HSCI 400 - Quality Assurance of Food Products (3)

This course presents quality assurance practices in the food industry.

Prerequisite: BIOL 348.

Offered: Fall.

HSCI 401 - Topics in Respiratory Therapy (4)

Various aspects of respiratory therapy are reviewed for evidence-based recommendations and updates. Diagnostic techniques, treatment approaches, current clinical practice guidelines and updates, and cardiopulmonary medications are addressed.

Prerequisite: Enrollment in the respiratory therapy completion concentration of the B.S. in health sciences.

Offered: Spring.

HSCI 402 - Current Topics in Dental Hygiene (4)

This course familiarizes dental hygiene students with evolving professional trends related to the dental hygiene process of care in private or public practice.

Prerequisite: Enrollment in the dental hygiene completion concentration of the B.S. in health sciences.

Offered: As needed.

HSCI 403 - Food Borne Disease (3)

This course presents the conditions that lead to food borne illness.

Prerequisite: BIOL 348

Offered: Fall.

HSCI 404 - Food Microbiology (3)

The microbiology of food is examined with an emphasis on conditions promoting microbial growth and prevention.

Prerequisite: BIOL 348

Offered: Spring.

HSCI 405 - Food Safety Case Study (1)

An overview of problem solving and teamwork concepts involved in industrial food safety.

Prerequisite: HSCI 400.

Offered: Spring.

HSCI 465 - Seminar in Respiratory Therapy (4)

Readings and discussion on selected topics include a review of research methods in health care, critical evaluation of research methods and design, and adoption of evidence-based recommendations into clinical practice.

Prerequisite: MATH 240 or consent of instructor.

Offered: Fall.

HSCI 466 - Evidence-Based Decision Making for Dental Hygiene (4)

This evidence-based decision-making course aids students in evaluating and applying current and emerging research which, coupled with expertise and critical thinking, guides the dental hygiene process of care.

Prerequisite: HSCI 402, HPE 307 and MATH 240.

Offered: As needed.

HSCI 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean, and admission to the health science honors program.

Offered: As needed.

HSCI 492 - Independent Study II (4)

This course continues the development of research or creative activity begun in HSCI 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: HSCI 491 and consent of instructor, department chair and dean.

Offered: As needed.

HSCI 494W - Independent Study in Health Sciences (4)

Students choose a topic for a research project or pursue an internship under the supervision of faculty. This is a Writing in the Discipline (WID) course.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

# HIST - History

HIST 101 - Multiple Voices: Africa in the World (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Africa and the world.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 102 - Multiple Voices: Asia in the World (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Asia and the world.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 103 - Multiple Voices: Europe in the World to 1600 (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Europe and the world to 1600.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 104 - Multiple Voices: Europe in the World Since 1600 (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Europe and the world since 1600.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 105 - Multiple Voices: Latin America in the World (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Latin America and the world.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 106 - Multiple Voices: Muslim People in the World (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between Muslim peoples and the world.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 107 - Multiple Voices: The United States in the World (4)

Students examine the historian's craft by studying pivotal events highlighting the historical relationship between the United States and the world.

General Education Category: History.

Offered: Fall, Spring, Summer.

HIST 108 - History of Science and Medicine (4)

Students examine the ideas and practices that define science and medicine and their relationships with society and culture, using examples from a variety of historical contexts.

General Education Category: History

Offered: Annually.

HIST 117 - Special Topics in History (4)

This course introduces students to historical themes within a particular era or period such as European history, Western civilization or the holocaust.

General Education Category: History.

Offered: As needed.

HIST 118 - Topics in U.S. History to 1877 (3)

This course provides an in-depth study of the history of the United States up to 1877 through five strands of history: political, economic, religious, social and intellectual.

General Education Category: History.

Offered: As needed.

HIST 119 - Topics in U.S. History from 1877 to Present (3)

This course provides an in-depth study of the history of the United States from 1877 to the present through five strands of history: political, economic, religious, social and intellectual.

General Education Category: History.

Offered: As needed.

HIST 201 - U.S. History: 1400-1800 (3)

Students examine Native Americans and the impact of European conquest and settlement, institutionalization of slavery, struggle between empires and colonies, the American Revolution and emergence of the American Republic

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall, Spring.

HIST 202 - U.S. History: 1800-1920 (3)

Students examine industrial and social revolutions of the early nineteenth century, growing conflict over slavery, Civil War and Reconstruction, and emergence of Modern America through immigration, urbanization, industrialization and globalization.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall, Spring.

HIST 203 - U.S. History: 1920 to the Present (3)

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall, Spring.

HIST 204 - Global History since 1500 (3)

Global history from 1500 to the present is surveyed. Identities and contributions of diverse world civilizations are explored, highlighting issues in the economic, political, social, cultural, and environmental domains.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall, Spring.

HIST 207 - History Through Numbers (4)

This course uses statistics to enable students to broaden their historical reasoning so as to better assess the multiplicity of human, institutional, and environmental factors creating present and past historical reality.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Completion of any mathematics general education distribution, and one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, HIST 108.

Offered: Fall, Spring

HIST 209 - The American Revolution (3)

Emphasis is on the origins and development of the revolution, its critical role in the formation of national identity in a global context, and the nature of the Constitution.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 217 - American Gender and Women’s History (3)

Students examine changing gender ideals and lived experiences for women in American history, including distinctions among women based on variables of race, class and sexuality in American society.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 218 - American Foreign Policy: 1945 to the Present (3)

Students survey American foreign policy from 1945 to the present. Topics include the Cold War, relationships among international organizations, decolonization and theories of modernization.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall.

HIST 219 - Popular Culture in Twentieth Century America (3)

Students examine the influence of popular culture in American history, and how Americans utilized and interpreted popular culture such as films, television and music, throughout the twentieth century.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 220 - Ancient Greece (3)

The development of ancient Greece from the archaic period to the death of Alexander the Great is examined. Topics include constitutional development, colonization, the Persian and Peloponnesians wars and slavery.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 221 - The Roman Republic (3)

The development of Rome is explored from its eighth-century B.C. founding to the end of the Roman Republic, with emphasis on constitutional development, imperial expansion, and changing economic and social conditions.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate Years.

HIST 222 - The Roman Empire (3)

The development of the Roman Empire is explored from the founding of the Julio-Claudian dynasty to the end of Roman rule in the West.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate Years.

HIST 223 - Medieval History (3)

Western civilization is explored from the breakup of the Roman Empire to the beginning of the fourteenth century. Topics include the rise of Christianity, feudalism, and economic and technological developments.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 224 - The Glorious Renaissance (3)

Europe’s transition from the fourteenth century through Shakespeare’s death are examined, focusing on changing patterns of thought, art and political forms in Italian city-states, Northern Europe, Britain and Spain.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall.

HIST 234 - Challenges and Confrontations: Women in Europe (3)

European women's political roles, economic activities, and social and cultural contributions are examined. This course may be repeated for credit with a change in content.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 235 - Voices of the Great War (3)

Fiction, non-fiction and poetry written by veterans of the Western Front will be explored in order to understand that unique experience**.**

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 236 - Post-Independence Africa (3)

Students examine themes in contemporary African history, such as nation-building; socio-economic and political development; nationalism and pan-Africanism; governance systems; and the post-Cold War/post-911 eras.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 238 - Early Imperial China (3)

Students examine the culture and history of early Imperial China. Emphasis is on the imperial systems, social changes and the culture of the Qin and the Han periods.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 239 - Japanese History through Art and Literature (3)

Students examine Japanese history from ancient to Meiji period, focusing on social and cultural development of Japan, using historical documents, archaeological remains, visual materials, art and literature.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 241 - Colonial and Neocolonial Latin America (3)

Students survey topics in Latin America history (1492-1900), including the Conquest, slavery, multiculturalism, independence and the Industrial Revolution

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 242 - Modern Latin America (3)

Topics in Latin American history are surveyed, including Wars of independence, immigration, revolutionary movements, populism and globalization.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 258 - Environmental History (3)

This course analyzes the relationship between humans and the natural environment by historically illuminating how nature has shaped human societies and the impact people have had on their environments.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107 or HIST 108; or consent of department chair.

Offered: Annually.

HIST 263 - Christianity (4)

This course explores the historical evolution of the traditions and practices of Christianity in diverse geographical and cultural settings from its biblical origins to the present.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H, and at least 45 credits.

Offered: Fall, Spring.

HIST 265 - Post-1945 Conflicts in Africa and Globally (4)

Students examine the history of conflict and conflict resolution in Africa and around the world since 1945. They will analyze the political, economic, social, cultural, and environmental dimensions of strife.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hoursCompletion of FYS, FYW and at least 45 credits

Offered: Annually

HIST 267 - Personal Memories of the World Wars (4)

Students examine personal experiences of living, serving, or suffering in the World Wars, by analyzing memoirs, fiction, and films.  They compare how gender, race, ethnicity, and class, influence war memories.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

HIST 268 - Civil Rights and National Liberation Movements (4)

This course emphasizes a global approach to American history that places movements of national liberation, exemplified by Vietnam, Cuba, and Guinea Bissau, and the American Civil Rights movement, in context.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

HIST 269 - Jazz and Civil Rights: Freedom Sounds (4)

This course explores the evolution of jazz from bebop through free jazz, emphasizing the relationship between music and social change, in particular the civil rights movement, domestically and internationally.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

HIST 272 - Globalization, 15th Century to the Present (4)

This course examines the traditional interpretation of the "Rise of the West" as an inevitable historical process by exploring the essential contributions of diverse global societies to contemporary globalization.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

HIST 273 - Latin America and Globalization, 1492-Present (4)

A history of globalization's impact on Latin America from 1492 to the present through a cross-cultural analysis of the interactions of Latin America with Europe, Africa, and Asia.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

HIST 274 - The History of the Dominican Republic (4)

Students analyze the rise of the Dominican Republic’s multi-racial society from 1492 to the present. The Trujillo dictatorship and Dominican baseball are among the issues explored.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

HIST 275 - Russia from Beginning to End (4)

Course highlights major events in Russian civilization such as the Mongols, tsars, imperial Russia, Soviet communism, World War II, and Russia today, through art, architecture, history, literature, and music.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

HIST 281W - History Matters I: Methods and Skills (3)

History is argument and debate not names and dates. Students will explore the philosophy, practice and significance of history, learning to think, read and write critically about the past. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Fall, Spring.

HIST 282W - History Matters II: Historical Research (3)

Students will learn and practice the skills of original historical research—from developing research questions, identifying and analyzing primary and secondary sources, and writing research papers on a specific theme. This is a Writing in the Discipline (WID) course.

Prerequisite: HIST 281 or HIST 281W, or consent of department chair.

Offered: Fall, Spring.

HIST 306 - Protestant Reformations and Catholic Renewal (3)

Students explore religious crises intertwined with the social, political, economic and intellectual history of the fourteenth through seventeenth centuries that produced modern times.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 307 - Europe in the Age of Enlightenment (3)

Essential themes, from the Peace of Westphalia to the eve of the French Revolution, are examined. Topics include absolutism, the Age of Louis XIV, the scientific revolution, and the Enlightenment.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 308 - Europe in the Age of Revolution, 1789 to 1850 (3)

The political and industrial revolutions of the era are examined for their social and economic impact. Included are the roots of liberalism, nationalism, and socialism.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 309 - Europe in the Age of Nationalism, 1850 to 1914 (3)

This is an examination of the unification of Germany and Italy, the political institutions of the European nation-states, and the emergence of nationalism and imperialism.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 310 - Twentieth-Century Europe (3)

Beginning with the First World War, students explore such topics as the Treaty of Versailles, the Roaring Twenties, the rise of communism and fascism, the Second World War, and the Cold War.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 311 - The Origins of Russia to 1700 (3)

Students explore the histories and cultures of peoples inhabiting the territories of the former U.S.S.R. from antiquity to Peter the Great. Topics include state formation, social institutions and practices, and territorial expansion.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 312 - Russia from Peter to Lenin (3)

Russian history during westernization is examined. Topics include elite and non-elite social development, serfdom, autocratic state, modernization, the Russian Revolutionary movement, non-Russian peoples, warfare, and diplomacy.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 313 - The Soviet Union and After (3)

Students will investigate the fascinating ideologies, issues, events and continuities of the Soviet Union and post-Soviet era: 1917, Bolsheviks, Stalin, WWII, Cold War,1990s collapse, Putin, new East-West confrontation**.**

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 315 - Western Legal Systems (4)

This is a comparative study of English common law and continental European civil law. Students cannot receive credit for both POL 315 and HIST 315.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: As needed.

HIST 316 - Modern Western Political Thought (4)

The ideas of major Western political thinkers, including the Greeks, Machiavelli, Hobbes, Locke, Rousseau, Hume, Hegel, and Marx, are reviewed. Students cannot receive credit for both HIST 316 and POL 316.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107 or HIST 161; or consent of department chair.

Offered: Fall.

HIST 317 - Politics and Society (4)

Relationships of power and authority and their social foundations are examined. Students cannot receive credit for more than one of the following: HIST 317, POL 317, and SOC 317.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: Spring.

HIST 318 - Tudor-Stuart England (3)

British history is studied from the Tudors to the Stuarts, including Henry VIII, Elizabeth, the Puritans, the Civil War, and the Glorious Revolution. Topics include social, cultural, legal, military, economic, and medieval history.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 320 - American Colonial History (3)

The colonial era is examined as a formative period in American history. Emphasis is on how the colonial experience contributed to the development of American social, religious, and political customs and institutions.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 322 - The Early American Republic (3)

Focus is on the creation of competing political, economic, social, and moral identities in the North and South, from the Constitution to the Mexican War.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 323 - The Gilded Age and Progressive Era (3)

Students explore the effects of industrialization, immigration, urbanization and globalization on American society from 1877-1920. These transformations created new opportunities, challenges and controversies for different groups of Americans

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Alternate years.

HIST 324 - Crises of American Modernity, 1914-1945 (3)

Students examine how tradition and modernity clashed in music, art and ideas, and how Americans grappled with prohibition, the Great Depression, global war and the dawn of the atomic age.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 325 - Superpower America 1945-1990 (3)

Students examine how the United States became an atomic superpower, faced new challenges and forced Americans to confront long-simmering conflicts, leading to social revolutions.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 328 - History of the American West (3)

Themes in American Western history are examined, including cross-cultural encounters, social and class conflict, environmental use and misuse, and the significance of the west and "frontier" in American politics, society, and popular culture.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 329 - Civil War and Reconstruction (3)

Topics include the conflicts of the 1850s; the Civil War's impact on American politics, economy, culture, and society; postwar political, economic, and racial reconstruction; and the contested memory of the war.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 330 - History of American Immigration (3)

The role of immigrants and ethnic groups in the development of the United States is examined. Topics include the causes of immigration, nativism, impact on the city, cultural conflict, and assimilation.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 331 - Rhode Island History (3)

Rhode Island's colonial and revolutionary origins, the problems of nineteenth- and twentieth-century industrial growth and social change, and other topics are surveyed.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Spring.

HIST 332 - The American Presidency (4)

The evolution of the institution and function of the presidency is examined. Students cannot receive credit for both HIST 332 and POL 357.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: Annually.

HIST 334 - African American History (3)

Topics include the African background of African Americans, development of slavery, abolitionism, legislative and judicial drives to equality, and social and cultural contributions of African Americans.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 336 - The United States and the Emerging World (3)

American diplomacy directed at a specific region or a certain time frame is examined. Topics may include the Vietnam era, demise of the Soviet Empire, and problems of modernization.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Spring.

HIST 340 - The Muslim World from the Age of Muhammad to 1800 (3)

The emergence of Islamic civilization in the Middle East is traced from the appearance of Islam in the seventh century to the nineteenth century, with particular emphasis on the diversity of cultural phenomena.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 341 - The Muslim World in Modern Times, 1800 to the Present (3)

The Middle East and the Muslim areas of Central Asia from the nineteenth century to the present are surveyed, with emphasis on the breakdown of traditional societies and the emergence of a regional state system.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 342 - Islam and Politics in Modern History (3)

The causes, manifestations, and forms of Islamic resurgence since the nineteenth century are studied. Islam's role in relationship to sociopolitical changes is analyzed through selected case studies.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 345 - Conflict, Globalization, and Modern East Asia (3)

Students will examine the history of East Asia as globalization, modernization, and imperialism transformed the nations, peoples, and interactions of China, Korea, and Japan in the nineteenth and twentieth centuries.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: As needed.

HIST 348 - Africa under Colonial Rule (3)

African societies and institutions of the early nineteenth century are examined. Topics include imperialism, the intrusion of European powers, the African response, and African nationalism and independence.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108; or consent of department chair.

Offered: Annually.

HIST 354 - Nationalism and National Identities (4)

The factors that shaped national identities, such as language, culture, religion, education, labor, and regionalism, are explored. This course may be repeated for credit with a change in content.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: As needed.

HIST 355 - Everyday Life History (4)

Traditional and modern societies are examined from the bottom up. Attention is given to material well-being; sexuality, marriage, family, and childhood; crime, disease, and death; and leisure and escapism.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: As needed.

HIST 357 - Public History Experiences (3)

Through concurrent internship and classroom experiences, students examine the potential of public history by collectively defining and articulating visions for the field, developing field-specific skills and exploring history’s roles in society. Students may repeat this course once for credit.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 108 or consent of department chair.

Offered: Annually.

HIST 362 - Reading Seminar in History (4)

Building on history and social science courses, this seminar involves extensive reading and discussion of selected historical themes. Focus is on historiographical issues.

Prerequisite: HIST 200, 15 additional credit hours of history courses, and 12 credit hours of social sciences courses.

Offered: Fall, Spring (as needed).

HIST 381 - Workshop: History and the Elementary Education Teacher (1)

Students visit historic sites and museums around Rhode Island and discuss how to prepare elementary school students for field trips to these sites to enhance the learning experience.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107 or HIST 108; or consent of department chair.

Offered: Fall.

HIST 389W - History Matters III: Senior Research Project (2)

History majors will produce an advanced research paper on a topic of their choosing. Students will analyze scholarship and primary sources to construct and communicate an original historical interpretation. This is a Writing in the Discipline (WID) course.

Prerequisite: HIST 282 or HIST 282W.

Offered: Fall, Spring.

HIST 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

HIST 491 - Independent Study I (4)

Students in the first semester of their senior year undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Admission to the honors program, and consent of instructor, department chair and dean.

Offered: As needed.

HIST 492 - Independent Study II (4)

Honors candidates in the second semester of their senior year prepare a final draft of the honors essay and submit it to the department for acceptance.

Prerequisite: HIST 491 and consent of instructor, department chair and dean.

Offered: As needed.

HIST 501 - Historiography (3)

This is an introduction to the theories and types of history and the various schools of historical thought.

Prerequisite: Graduate status and consent of department chair and graduate advisor.

Offered: Fall.

HIST 521 - Topics in Comparative History (3)

Aimed at providing a theoretical and practical appreciation of historical comparison and generalization, the methodological basis of comparative history is examined.

Prerequisite: Graduate status and consent of department chair and graduate advisor.

Offered: Spring.

HIST 550 - Topics in American History (3)

Focus is on varying topics in American history, from the Colonial Era to the present.

Prerequisite: Graduate status and consent of department chair and graduate dean.

Offered: As needed.

HIST 551 - Topics in Western History (3)

Focus is on varying topics in Western history, from the Ancient World to the present.

Prerequisite: Graduate status and consent of department chair and graduate dean.

Offered: As needed.

HIST 552 - Topics in Non-Western History (3)

Focus is on varying topics in non-Western history. Africa, Asia, and the Middle East are investigated.

Prerequisite: Graduate status and consent of department chair and graduate dean.

Offered: As needed.

HIST 561 - Graduate Seminar in History (3)

Students develop a greater knowledge of materials for history, methods of research, and skill in solving problems of analysis and exposition.

Prerequisite: Graduate status, HIST 501 and consent of graduate advisor.

Offered: Fall.

HIST 562 - Graduate Reading Seminar (3)

Through a wide variety of readings, students explore the content and extended bibliography of a select topic. Analysis, critical thinking, and comparative study are developed. This course may be repeated for credit with a change in content.

Prerequisite: Graduate status and consent of graduate advisor and department chair.

Offered: Spring.

HIST 571 - Graduate Reading Course in History (3)

Students engage in independent study under the guidance of a historian.

Prerequisite: Only open to graduate students who have had suitable course work and who have consent of the instructor and department chair.

Offered: As needed.

HIST 599 - Directed Graduate Research (3-6)

This course is for M.A. and M.A.T. candidates who are preparing a thesis or field paper under the supervision of a faculty member. Credit is assigned in the semester that the paper is completed and approved. Graded H, S, U.

Prerequisite: Graduate status.

Offered: As needed.

# HONR - Honors

HONR 100 - First Year Seminar (4)

Students choose from a variety of topics rooted in various disciplines. Each section is discussion-based, focused on developing critical thinking, oral communication, research fluency, and written communication

General Education Category: First Year Seminar.

Prerequisite: Acceptance into the Gen. Ed. Honors Program or consent of director of honors.

Offered: Fall, Spring.

HONR 264 - Seminar in Cross-cultural and Interdisciplinary Issues (4)

Topics of cross-cultural and interdisciplinary interest are studied emphasizing comparative perspectives and the use of primary texts.

General Education Category: Connections.

Prerequisite: Completion of FYS, FYW, and at least 45 credits. Admission to Gen. Ed. Honors or consent of program director.

Offered: Spring.

HONR 351 - Honors Colloquium (2)

Students examine the framework of undergraduate research or creative work in preparation for their honors projects. This course may be taken twice for credit. 1.5 contact hours. Graded S, U.

Prerequisite: Cumulative GPA of 3.00 and consent of program director.

Offered: Fall, Spring.

# INST - Instructional Technology

INST 251 - Introduction to Emerging Technologies (3)

The basic skills and knowledge of using technology to achieve teaching and learning goals are developed. Theoretical and practical knowledge are directed toward integrating technology into the instructional process.

Offered: Fall, Spring.

INST 404 - Preparing and Using Instructional Materials (3)

Students produce a variety of instructional materials using appropriate technologies and software. Demonstrations and instruction focus on how to effectively use digital technologies for diverse audiences.

Prerequisite: 6 credit hours of teacher preparation courses or consent of department chair.

Offered: As needed.

INST 516 - Integrating Technology into Instruction (3)

Students prepare lessons that demonstrate full integration of technology into instruction. Projects incorporate techniques reflecting current application of technology, instructional theory and professional standards.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall, Spring.

INST 520 - Introduction to Online Learning and Teaching (3)

Students are introduced to online learning, its foundations, history, and core principles. Particular attention is given to current practice in online teaching and learning. Hybrid course.

Prerequisite: Graduate status or consent of department chair and at least intermediate technology skill.

Offered: As needed.

# INGO - International Non-Government Organizations Studies

INGO 200 - Community Engagement (4)

Students work in the community on a service learning project in partnership with a nongovernmental organization (NGO) or nonprofit. (Formerly INGO 302 International Nongovernmental Organizations and Social Entrepreneurship

Prerequisite: Completion of at least 30 college credits.

Offered: Spring.

INGO 300 - International NGOs and Nonprofits (4)

The various roles of international nongovernmental and nonprofit organizations are examined. Students cannot receive credit for both INGO 300 and POL 345.

Prerequisite: POL 203 or consent of program director.

Offered: Fall.

INGO 301 - Global Development (4)

The contested meanings of "development" are surveyed. Focus is on the multiple contexts within which international nongovernmental organizations operate. Study includes social justice issues relevant to development activities.

Prerequisite: One 200-level political science course or consent of program director.

Offered: Spring.

INGO 303 - Pre-Internship in International NGOs and Nonprofits (1)

Students prepare for an internship in an international nongovernmental organization. Discussion includes workplace etiquette and the challenges of living and working abroad. Students identify, apply for, and plan an internship.

Prerequisite: INGO 300 or consent of program director.

Offered: As needed.

INGO 304 - Internship in International NGOs and Nonprofits (1-4)

Students take part in one or more internships for a minimum of 120 hours. A research paper and academic work complement the internship. This course may be repeated for credit.

Prerequisite: INGO 303 or INGO 305, or consent of program director.

Offered: As needed.

INGO 305 - Professional Development: International NGOs and Nonprofits (1)

Students will examine career and graduate school opportunities, prepare post-graduate materials, and seek to articulate the transferable skills needed for success in the professional NGO field.

Prerequisite: INGO 300 or consent of program director.

Offered: As needed.

# ITAL - Italian

ITAL 101 - Elementary Italian I (4)

Students learn to understand, speak, read, and write in Italian and gain an understanding of Italian life and character. Online work is required. Not open to students who have admission credit in Italian.

Offered: Fall, Spring.

ITAL 102 - Elementary Italian II (4)

Four skills in elementary Italian—listening, speaking, reading, and writing—are further developed within the context of Italian culture. Online work is required.

General Education Category: Satisfies Gen. Ed. language requirement

Prerequisite: ITAL 101 or one year of secondary school Italian, or consent of department chair.

Offered: Fall, Spring.

ITAL 113 - Intermediate Italian (4)

The cultural and linguistic heritage of Italy is examined through selected readings. Grammar is reviewed and basic oral and written skills developed. Online work is required.

Prerequisite: ITAL 102 or three years of secondary school Italian or a score of 500-549 on the CEEB Achievement Test in Italian.

Offered: Fall.

ITAL 114 - Readings in Intermediate Italian (4)

Literature as a reflection of the heritage of the Italian people is examined. The development of oral and reading skills are continued, and some attention is given to written practice.

Prerequisite: ITAL 113 or equivalent or a score of 550-599 on the CEEB Achievement Test in Italian or consent of department chair.

Offered: Spring.

ITAL 115 - Literature of Italy (4)

Students are introduced to techniques of literary analysis through readings from various periods of Italian literature as they continue to develop speaking, reading, and writing skills in Italian.

General Education Category: Literature.

Prerequisite: ITAL 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

ITAL 201 - Conversation and Composition (4)

Students develop correct pronunciation through oral practice and elementary work in phonetics. Emphasis is on the use of correct spoken Italian on an advanced level.

Prerequisite: ITAL 114 or equivalent or consent of department chair.

Offered: Fall.

ITAL 202 - Composition and Conversation (4)

Writing skills in Italian are developed through grammatical exercises, controlled composition, and original themes. Class discussion in Italian of the written materials provides oral practice.

Prerequisite: ITAL 114 or equivalent or consent of department chair.

Offered: Spring.

ITAL 321 - Italian Literature and Civilization through Renaissance (4)

Major Italian authors and works of literature from the thirteenth century through the Renaissance are examined in their historical and cultural context.

Prerequisite: ITAL 202 or consent of department chair.

Offered: Alternate years.

ITAL 322 - Italian Literature and Civilization Post-Renaissance (4)

Major Italian authors and works of literature from the post-Renaissance to the twenty-first century are examined in their historical and cultural context.

Prerequisite: ITAL 202 or consent of department chair.

Offered: Alternate years.

ITAL 330 - Modern Italy (4)

Political, social, and economic changes in Italy from unification to the present are examined. Topics include regional conflicts, immigration issues, European identity, and changing family life.

Prerequisite: ITAL 202 or consent of department chair.

Offered: Annually.

ITAL 403 - Studies in Italian Theatre (3)

Italian theatre from the fifteenth century to the present is studied. Topics include Renaissance satirical comedies, commedia dell'arte, Goldoni's theatrical reforms, and the works of Alfieri, D'Annunzio, Pirandello, and Dario Fo.

Prerequisite: ITAL 202, and ITAL 321 or ITAL 322, or consent of department chair.

Offered: As needed.

ITAL 404 - Studies in Italian Cinema (3)

Major directors, movements, and themes of Italian cinema, from early cinema to the present, are studied. Attention is given to cultural and other aspects of film analysis.

Prerequisite: ITAL 202, and ITAL 321 or ITAL 322 or ITAL 330, or consent of department chair.

Offered: As needed.

# JPAN - Japanese

JPAN 101 - Elementary Japanese I (4)

Students learn to understand, speak, read, and write in Japanese and gain an understanding of Japanese life and character. Online work is required.

Offered: Fall.

JPAN 102 - Elementary Japanese II (4)

Four skills in elementary Japanese (listening, speaking, reading, and writing) are developed within the context of Japanese culture. Online work is required.

General Education Category: Satisfies Gen. Ed. language requirement.

Prerequisite: JPAN 101 or consent of department chair.

Offered: Spring.

# JSTD - Justice Studies

JSTD 466W - Seminar in Justice Studies (4)

Students integrate their understanding of theory, research and policy relating to crime and justice. Two extensive writing assignments will consist of a grant proposal, research/program design, or law review. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior standing, POL 332, SOC 302, SOC 309 or SOC 362, 12 additional credit hours of justice studies courses and a minimum 2.0 G.P.A., or consent of department chair.

Offered: Fall, Spring.

JSTD 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Admission to the justice studies honors program and consent of instructor, program director and dean.

Offered: As needed.

JSTD 492 - Independent Study II (3)

This course continues the development of research or creative activity begun in JSTD 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: JSTD 491 and consent of instructor, program director and dean.

Offered: As needed.

# LATN - Latin

LATN 101 - Elementary Latin I (4)

The spirit and culture of the classical Roman world is introduced through study of the grammar and syntax of classical Latin and readings from Latin authors. This course also examines the Roman world's contribution to Western civilization.

Offered: Fall (odd years).

LATN 102 - Elementary Latin II (4)

This is a continuation of Latin 101.

General Education Category: Satisfies Gen. Ed. language requirement.

Prerequisite: LATN 101 or equivalent.

Offered: Spring (even years).

# LAS - Latin American Studies

LAS 363 - Seminar: Topics in Latin American Studies (3)

This is a culminating experience in Latin American studies.

Prerequisite: Consent of chair of Department of Modern Languages.

Offered: Alternate years.

# LIBS - Liberal Studies

LIBS 261 - Introduction to Liberal Studies (4)

An introduction to theory and methods of interdisciplinary research. Students prepare a formal research proposal for an interdisciplinary research project to be completed in LIBS 461.

Prerequisite: Completion of 60 credits and permission of the program director.

Offered: Annually.

LIBS 461W - Liberal Studies Seminar (4)

This is a culminating experience for liberal studies majors. Students prepare and present a project, bringing together materials and methods from several disciplines. This is a Writing in the Discipline (WID) course.

Prerequisite: LIBS 261 and permission of the program director.

Offered: Annually.

# MRI - Magnetic Resonance Imaging

MRI 301 - Introduction to Magnetic Resonance Imaging (3)

This course covers basic MRI history, instrumentation, safety, positioning, equipment, coils and an overview of the department. Also included are basic pharmacology, venipuncture and intravenous contrast media administration.

Prerequisite: MEDI 201 or RADT 201, and acceptance into the MRI clinical program.

Offered: Spring.

MRI 302 - Foundations of Medical Resonance Imaging (3)

Students will learn MRI history, instrumentation, safety, positioning, equipment, coils and mechanisms of image formation. Also included are basic pharmacology, venipuncture and intravenous contrast media administration.

Prerequisite: Acceptance into a Medical Imaging clinical program.

Offered: Spring.

MRI 303 - Procedures I (3)

Students will learn human anatomy and pathology as seen in multiple orthogonal planes. Bone, muscle, vascular structures, organs and soft tissues are studied.

Prerequisite: Acceptance into a Medical Imaging clinical program.

Offered: Spring.

MRI 304 - Physical Principles I (4)

Students learn about MR signal production, tissue characteristics, widely used pulse sequences, image formation, and image contrast. In addition, the physics of MRI and image formation and safety are presented.

Prerequisite: Acceptance into a Medical Imaging clinical program.

Offered: Spring.

MRI 305 - Clinical Education I (3)

Students are introduced to the clinical practice of MRI with emphasis on departmental   procedures, MRI safety and patient care. They will gain practical experience observing and applying imaging principles.  24 contact hours.

Prerequisite: Acceptance into a Medical Imaging clinical program.

Offered: Spring.

MRI 306 - Procedures II (3)

Students will learn the cross-sectional anatomy and related pathologies of the abdomen, pelvis, upper and lower extremities.

Prerequisite: MRI 303.

Offered: Summer.

MRI 307 - Clinical Education II (5)

Students are further introduced to the clinical practice of MRI with emphasis on departmental procedures, MRI safety and patient care. They will gain practical experience observing and applying imaging principles. 30 contact hours.

Prerequisite: MRI 305.

Offered: Summer.

MRI 309 - Clinical Observation (3.5)

This course provides an introduction to the clinical practice of MRI, with emphasis on departmental procedures, MRI safety, and patient care. This course offers practical experience observing and applying health care principles. 10.5 contact hours.

Prerequisite: Acceptance into the MRI clinical program.

Offered: Spring.

MRI 310 - Clinical Practice I (8)

Students gain skills required to achieve clinical competencies in a variety of MRI procedures. This course allows practice of MRI skills and leads to proficiency in MRI and patient care. 24 contact hours.

Prerequisite: MRI 301

Offered: Summer.

MRI 311 - Cross Sectional Anatomy and Imaging Procedures I (3)

This course covers anatomy in multiple orthogonal planes, including head, spine, neck and thorax. Bone, muscles, vascular structures and organs are examined. Includes discussion of imaging techniques and procedures.

Prerequisite: MRI 301

Offered: Summer.

MRI 321 - Physical Principles I (3)

This course covers a comprehensive overview of MRI principles to include: MRI signal production, tissue characteristics, widely used pulse sequences, image formation and image contrast.

Prerequisite: MRI 301

Offered: Summer.

MRI 410 - Clinical Practice II (8)

This course continues the experiences learned in MRI 310, including routine MRI procedures in various clinical settings on all patient types. Emphasis is placed on gaining confidence and manipulating parameters. 24 contact hours.

Prerequisite: MRI 310.

Offered: Fall.

MRI 411 - Cross Sectional Anatomy and Imaging Procedures II (3)

This is a continuation of MRI 311, discussing cross sectional anatomy of the abdomen, pelvis and upper and lower extremities, with continued emphasis on imaging techniques, procedures and protocols.

Prerequisite: MRI 311.

Offered: Fall.

MRI 420 - Clinical Practice III (6)

This course continues experiences learned in MRI 410, including advanced MRI procedures in various clinical settings on all patient types. This course prepares students to become independent functioning MRI technologists. 18 contact hours.

Prerequisite: MRI 410.

Offered: Spring.

MRI 421 - Physical Principles II (3)

This course is a continuation of MRI 321, providing an overview of encoding, data collection, image formation, K-space, acquisitions, advanced pulse sequence, flow phenomenon, MRA, cardiac MRI, and quality assurance.

Prerequisite: MRI 321.

Offered: Fall.

MRI 430 - Registry Review (3)

Students will review the specifications of the ARRT MRI examination, which include the guidelines for application, study strategies, and content included in the exam.

Prerequisite: MRI 410

Offered: Spring.

MRI 431 - Physical Principles II (4)

Students learn about encoding, data collection, image formation, K-space, acquisitions, advanced pulse sequences, flow phenomenon, MRA, cardiac MRI, and quality assurance.

Prerequisite: MRI 304.

Offered: Fall.

MRI 432 - Clinical Education III (5)

Students learn about routine MRI procedures in various clinical settings on all patient types. Emphasis is placed on gaining confidence and manipulating parameters. 30 contact hours.

Prerequisite: MRI 307.

Offered: Fall.

MRI 433 - Advanced Procedures in Magnetic Resonance Imaging (3)

Students learn about advanced procedures, in MRI including: cardiac, functional MRI, MR spectroscopy, biopsies, research, whole body imaging, MR microscopy, interventional MRI and the importance of Magnetic Resonance Safety Officers (MRSO).

Prerequisite: MRI 432.

Offered: Spring.

MRI 434 - MRI Registry Review (3)

Students will review the specifications of the ARRT MRI examination, the guidelines for application, study strategies and content included in the exam.

Prerequisite: MRI 432.

Offered: Spring.

MRI 435 - Clinical Education IV (4)

Students will learn advanced MRI procedures in various clinical settings on all patient types. This course prepares students to become independent functioning MRI technologists. 24 contact hours.

Prerequisite: MRI 432.

Offered: Spring

MRI 455 - MRI Pathology (1.5)

This course covers common pathologies found in MRI, and the appearance of these pathologies in various imaging protocols. Emphasis is placed on commonly imaged body systems and areas.

Prerequisite: MRI 410.

Offered: Spring.

# MGT - Management

MGT 100 - Introduction to Business (4)

Business concepts are introduced and the practices of management in both the business sector and nonprofit organizations. Topics focus on all of the management disciplines.

Offered: Fall, Spring.

MGT 201W - Foundations of Management (4)

Management concepts are explained, including planning, organizing, leading, and controlling. Students develop managerial communication skills by working with groups. This is a Writing in the Discipline (WID) course. (Formerly MGT 301)

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring, Summer.

MGT 249 - Business Statistics II (4)

A continuation of MATH 240 or MATH 248, emphasis is on applied statistics, both parametric and nonparametric. Students cannot receive credit for both MGT 249 and either MATH 241 or 445.

General Education Category: Advanced Quantitative/Scientific Reasoning

Prerequisite: MATH 240 or 248.

Offered: Fall, Spring, Summer.

MGT 306 - Managing a Diverse Workforce (4)

Topics include contemporary paradigms, cultural issues, and rationales for managing a diverse workplace. Individual approaches, conflicts, and organizational responses are examined.

Prerequisite: Completion of at least 60 credits.

Offered: Fall, Spring.

MGT 310 - Small Business Management (4)

Management concepts are applied to small businesses and a business plan is developed.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall.

MGT 311 - Entrepreneurship and New Ventures (4)

Venture initiation, development, and capital are discussed. Emphasis is on decision making in an environment of market and venture uncertainty.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Spring.

MGT 320 - Human Resource Management (4)

This is an overview of the role of the general manager and human resource specialist.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall, Spring, Summer.

MGT 322 - Organizational Behavior (4)

Students investigate how and why certain events and behavioral processes occur in organizations. They also explore the ways in which a manager can influence those processes.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall, Spring, Summer.

MGT 331 - Occupational and Environmental Safety Management (4)

Occupational safety and health and environmental problems are discussed from technical, social, managerial, and legal perspectives.

Prerequisite: Completion of at least 45 college credits.

Offered: Fall.

MGT 333 - Negotiation and Conflict Resolution (4)

Students are introduced to concepts in negotiation and organizational conflict resolution. Topics include negotiation strategies, conflict resolution approaches, communication (face to face, virtual, verbal/non-verbal), emotion/perception (psychological intangibles) and team negotiations.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and 60 credits.

Offered: As needed.

MGT 335 - Process Management (4)

The effectiveness and efficiency of business process design, implementation, and management are analyzed in manufacturing and service firms.

Prerequisite: MGT 249 and MGT 201 or MGT 201W or MGT 301.

Offered: Spring.

MGT 341W - Business, Government, and Society (4)

Focus is on dynamic social, legal, political, economic, and ecological issues that require socially responsible behavior on the part of individuals and organizations. This is a Writing in the Discipline course.

Prerequisite: Completion of at least 60 college credits.

Offered: Fall, Spring, Summer.

MGT 345 - Managing in the World’s Regions (4)

Students study issues relevant to managers of organizations in global settings and processes unique to those businesses. Focus on managerial challenges related to international cultures, markets, economics and governments. This is a Writing in the Discipline (WID) course. (Formerly International Business)

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Annually.

MGT 347 - Supply Chain Management (4)

Emphasis is on the design and management of activities along the supply chain, from purchasing and materials management to distribution and transportation systems. Students cannot receive credit for both MGT 347 and MKT 347.

Prerequisite: MGT 201 or MGT 201W or MGT 301 and MKT 201 or MKT 201W or MKT 301.

Offered: Annually.

MGT 348 - Operations Management (4)

Techniques for the effective management of operations at both the strategic and operating levels are introduced.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MATH 240 or MATH 248.

Offered: Fall, Spring, Summer.

MGT 349 - Service Operations Management (4)

Students develop, analyze, and implement strategies for a wide range of service organizations. Emphasis is on the particular challenges for managers in service organizations.

Prerequisite: MGT 201 or MGT 201W, or MGT 301

Offered: Fall.

MGT 355 - Quality Assurance (4)

The means and advantages of establishing an effective quality system in manufacturing and service firms are discussed. Students cannot receive credit for both MGT 355 and HCA 355.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MATH 240 or MATH 248.

Offered: Spring.

MGT 359 - Current Topics in Service Operations Management (4)

Current trends in the management of service organizations are explored. Focus is on the design, implementation, and management of strategies specific to services, such as e-commerce, entrepreneurship, and technology management.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: As needed.

MGT 423 - Compensation and Benefits Administration (4)

The process of designing and managing a cost-effective, equitable, and legally acceptable total compensation package is examined. Topics include economic, social, and legal determinants of base pay; and incentives and benefits.

Prerequisite: MGT 320.

Offered: Fall.

MGT 425 - Recruitment and Selection (4)

Concepts and methods involved in designing and managing the recruitment and selection functions of management are examined.

Prerequisite: MGT 320.

Offered: Fall.

MGT 427 - Principled Leadership (4)

Students learn about leadership authenticity, communication transparency, full-range leadership and the ethical framework that fosters positive follower outcomes. Topics such as effecting change, power, and influence are also addressed.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall.

MGT 428 - Human Resource Development (4)

The concepts, programs, and practices that organizations use to train and develop its members are examined. Topics include learning, needs assessment, program design and implementation, evaluation, skills training, and coaching.

Prerequisite: MGT 320.

Offered: Spring.

MGT 430W - Strategic Human Resource Management (4)

Seminar focusing on timely challenges organizations face and the strategic role of human resource management in addressing them. This is a Writing in the Discipline course.

Prerequisite: MGT 320 and any two of MGT 423, MGT 425, MGT 428.

Offered: Spring.

MGT 455 - Global Logistics and Enterprise Management (4)

Emphasis is on the strategic integration of operations across functional areas to achieve sustainable competitive advantage in manufacturing and service organizations.

Prerequisite: : MGT 348 or MGT 348W, or consent of the director of the Master of Science in Operations Management program.

Offered: As needed.

MGT 461W - Seminar in Strategic Management (4)

Focus is on the formulation and implementation of organizational strategies and policies. The case method is used in integrating material from other management and economics courses. This is a Writing in the Discipline course.

Prerequisite: MKT 201 or MKT 201W, or MKT 301, MGT 348 or MGT 348W, and FIN 301.

Offered: Fall, Spring, Summer.

MGT 465 - Organizational Theory (4)

Students focus on organization theory concepts, including inter-organizational processes, and economic, institutional and cultural contexts in which organizations operate. Seminar entails student-led presentations and discussions. (Formerly MGT 329 Organizational Theory and Design.)

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and 60 credits.

Offered: As Needed.

MGT 467 - Directed Internship (4)

Students are assigned to a business or nonprofit organization and earn three credits for topical course work, a two-hour biweekly seminar, and 120 hours of organization work, supervised by a mentor. Graded S, U.

Prerequisite: MGT 201 or MGT 201W, or MGT 301, completion of at least 60 college credits, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

MGT 490 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MGT 491 - Independent Study I (4)

The student will select a research topic and under the mentorship of a faculty advisor, will conduct comprehensive research on the selected and approved topic.

Prerequisite: Admission into management honors program and consent of instructor, department chair and dean.

Offered: As needed.

MGT 492 - Independent Study II (4)

This course continues the development of research begun in MGT 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: MGT 491 and consent of instructor, department chair and dean.

Offered: As needed.

MGT 501 - The Strategic Nature of Operations Management (2)

This course examines the overall domain of the role of the operations manager. Particular emphasis is on enhancing existing skills in process analysis, demand forecasting and Supply Chain metrics.

Prerequisite: Consent of department chair.

Offered: Fall, Spring, Summer.

MGT 515 - Leading Change and Innovation (3)

This course covers the theory and practice underlying successful organizational change. Topics include assessment of organizational effectiveness/performance, organizational development techniques, change methodologies and individual, group and organizational change processes.

Prerequisite: Graduate status, program admission or consent of instructor.

Offered: Fall, Spring.

MGT 520 - Developing High-Performance Teams (3)

This course examines skills necessary to manage organizational relationships. Particular attention is given to relationship management issues, such as team building, negotiation and conflict and development of emotional intelligence skills.

Prerequisite: Graduate status, program admission or consent of instructor.

Offered: Fall, Spring.

MGT 530 - Analytics, Data Analysis and Decision Making (4)

This course examines a variety of data analysis methods. Particular attention is given to regression modeling, time series modeling and analytics using simulations.

Prerequisite: Graduate status.

Offered: Annually.

MGT 535 - Project Management (3)

Students explore concepts and solutions that support the selection, planning, execution, control, management, performance responsibility, and measurement activities required for successful project completion.

Prerequisite: Graduate status, program admission or consent of instructor.

Offered: Fall, Spring.

MGT 536 - Creating and Leading High-Performance Teams (4)

This course will give students an understanding of work design principles that lead to productive workplaces, effective change management and enhanced team collaboration and innovation.

Prerequisite: Graduate status.

Offered: Annually.

MGT 537 - High Performance Project Management (4)

Students learn project planning, execution, management and measurement techniques, with an emphasis on the completion of projects on-time and within budget.

Prerequisite: Graduate status.

Offered: Annually.

MGT 542 - Project Risk and Cost Management (4)

Students learn to identify and analyze project risk and to select an effective response strategy. Topics include cost management, cost estimation and cost control.

Prerequisite: Graduate status, MGT 537.

Offered: Annually

MGT 543 - Project Communications Management (4)

This course examines various styles of communication and conflict resolution. Students will develop communication, conflict management and negotiation skills.

Prerequisite: Graduate status, MGT 537.

Offered: Annually.

MGT 544 - Program Management (4)

Students learn how managers support successful project-level activity with a focus on decision-making capacity and understanding requisite systems.

Prerequisite: Graduate status, MGT 537.

Offered: Annually.

MGT 545 - Production and Inventory Management (4)

Students learn the design and management of manufacturing, service and distribution processes, including the interrelationship of demand, planning and an introduction to the transportation of goods.

Prerequisite: Graduate status, MGT 536.

Offered: Annually.

MGT 546 - Logistics (4)

Students examine the process of moving raw materials and finished products in an optimal way. Topics include distribution, transportation, global issues and inventory controls.

Prerequisite: Graduate status, MGT 536.

Offered: Annually.

MGT 547 - Supply Chain Management (4)

Students examine the role of supply chain managers in manufacturing, retail, transportation, government agencies and service firms.

Prerequisite: Graduate status, MGT 536.

Offered: Annually.

MGT 591 - Directed Research Capstone (4)

Students identify an applied/action research project that provides a culminating experience and applies principles learned to a business process. The project is conducted in a local manufacturing and service company.

Prerequisite: Graduate status, permission of instructor, completion of a minimum of 22 credit hours in M.S. Operations Management Program.

Offered: Fall, Spring, Summer.

# MKT - Marketing

MKT 201W - Introduction to Marketing (4)

This is an examination of the role of marketing in society, consumer behavior, product management, pricing, distribution and promotion. This is a Writing in the Discipline (WID) course. (Formerly MKT 301)

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring, Summer.

MKT 215 - Marketing Creativity (4)

Focusing on the theories and models that enable students to develop perspectives upon creativity and its potential impacts on organizational life. Effective management of creativity within marketing organizations is emphasized.

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring.

MKT 322 - Services Marketing (4)

Focus is on the difference between service industries and manufacturing industries. Topics include the development of marketing strategies in service industries.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 323 - Digital Marketing (4)

Students are introduced to digital marketing strategy and techniques. Topics include the digital marketing funnel, web-based campaigns and current best practices in digital marketing.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 329 - Global Marketing (4)

Global issues that confront today's international marketers are addressed. Concepts relevant to all international marketers are presented, regardless of the extent of their international involvement.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 333 - Market Research (4)

The role of marketing information as the basis for decision making is studied, including the cost and value of information, research design and instrumentation, data analysis, and forecasting. Problem-solving exercises are included.

Prerequisite: MGT 249 and MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 334 - Consumer Behavior (4)

The marketing environment, consumer behavior, and market segmentation is studied. Emphasis is on understanding the turbulent environment surrounding the marketing decision maker.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 335 - Marketing Communications and Promotion (4)

Basic promotional tools available to the marketing manager are studied: advertising, sales promotion, personal selling, and publicity.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 337 - Retail Management (4)

Emphasis is on retail strategies and the managerial planning required to meet objectives.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall.

MKT 338 - Advertising (4)

he key processes of modern advertising practice are introduced. Topics include production of effective advertising and media. Students cannot receive credit for both COMM 334 and MKT 338.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 340 - Personal Selling and Sales Management (4)

Focus is on personal selling, a subset of the promotional element of marketing strategy, which involves face-to-face relationships, personal influence, and complex communication processes.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 347 - Supply Chain Management (4)

Emphasis is on design and management of activities along the supply chain, from purchasing and materials management to distribution and transportation systems. Students cannot receive credit for both MGT 347 and MKT 347.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MKT 201 or MKT 201W, or MKT 301.

Offered: Annually.

MKT 462W - Strategic Marketing Management (4)

This seminar course integrates the marketing functions of product, price, channels, and promotion with the concepts of strategic planning. Emphasis is on the relevance of this integration to marketing. This is a Writing in the Discipline (WID) course.

Prerequisite: MKT 201 or MKT 201W, or MKT 301, and TWO from MKT 215 or MKT 315, MKT 333, or MKT 334.

Offered: As needed.

MKT 467 - Directed Internship (4)

Students are assigned to a business or nonprofit organization and earn three credits for topical course work, a two-hour biweekly seminar, and 120 hours of organization work, supervised by a mentor.

Prerequisite: MKT 201 or MKT 201W, or MKT 301, completion of at least 60 college credits, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

MKT 490 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MKT 491 - Independent Study I (4)

The student will select a research topic and under the mentorship of a faculty advisor, will conduct comprehensive research on the selected and approved topic.

Prerequisite: Admission into marketing honors program and consent of instructor, department chair and dean.

Offered: As needed.

MKT 492 - Independent Study II (4)

This course continues the development of research begun in MKT 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: MKT 491 and consent of instructor, department chair and dean.

Offered: As needed.

# MATH - Mathematics

MATH 010 - Basic Mathematics Competency (4)

Satisfactory completion of this course fulfills the College Mathematics Competency. Topics include problem solving, beginning algebra, geometry, measurement, introductory probability and statistics, and graphs and charts. Graded S, U.

Offered: Fall, Spring, Summer.

MATH 117 - Calculus: A Short Course (3)

Topics include differentiation and integration, including an introduction to partial differentiation.

Offered: As needed.

MATH 120 - Intermediate Algebra (4)

Intended for students needing intermediate algebra skills, especially for MATH 177 and 209. Topics include linear and quadratic equations, inequalities, exponents, radicals, algebraic fractions, and quadratic, logarithmic and exponential functions.

Prerequisite: MATH 010 or appropriate score on the placement exam.

Offered: Fall, Spring, Summer.

MATH 139 - Math, Data, and the Contemporary Citizen (4)

This course introduces students to the power and usefulness of data and its mathematical application to their personal lives and to the function of the societies in which they belong.

General Education Category: Mathematics

Prerequisite: Completed college mathematics competency or appropriate score on the mathematics placement exam.

Offered: Fall, Spring, Summer.

MATH 143 - Mathematics for Elementary School Teachers I (4)

Emphasis is on problem solving, model building, and algorithm development appropriate for the mathematics curriculum in the elementary/middle school. Topics include numeration and the development of number systems. Lecture and laboratory.

Prerequisite: Completed college mathematics competency or appropriate score on the mathematics placement exam.

Offered: Fall, Spring, Summer.

MATH 144 - Mathematics for Elementary School Teachers II (4)

A continuation of MATH 143, this course includes geometry and measurement, counting problems, probability, and statistics. Lecture and laboratory.

General Education Category: Mathematics for elementary education students only.

Prerequisite: Completed college mathematics competency or appropriate score on the mathematics placement exam and MATH 143, with a minimum grade of C, or consent of department chair.

Offered: Fall, Spring, Summer.

MATH 177 - Quantitative Business Analysis (4)

Topics include linear and selected nonlinear functions, linear systems, matrix methods, linear programming, average rate of change, derivatives and marginal analysis. Applications to management and economics are stressed throughout.

General Education Category: Mathematics.

Prerequisite: MATH 120 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 209 - Precalculus Mathematics (4)

The functions, concepts, and techniques of algebra and trigonometry considered essential in the study and applications of calculus are introduced and/or reinforced.

General Education Category: Mathematics.

Prerequisite: MATH 120 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 210 - College Trigonometry (3)

This is an in-depth study of trigonometry. Topics include a comprehensive analysis of trigonometric and inverse trigonometric functions and solutions of triangles, vectors, and polar coordinates.

Prerequisite: Three units of college preparatory mathematics and MATH 120 or consent of department chair.

Offered: Spring.

MATH 212 - Calculus I (4)

This course covers the fundamental concepts, techniques, and applications of the differential calculus of one variable and begins the study of integration.

General Education Category: Mathematics.

Prerequisite: MATH 209 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 213 - Calculus II (4)

A continuation of MATH 212, topics include derivatives and integrals of logarithmic, exponential, and inverse trigonometric functions; techniques of integration; infinite series; and related applications.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: MATH 212

Offered: Fall, Spring, Summer.

MATH 220 - Formalizing Mathematical Thought (4)

This course is an introduction to abstract and generalized thinking including formal mathematical proof. Students cannot receive credit for MATH 220 if credit was received for MATH 300.

Prerequisite: MATH 143, MATH 144, and MATH 209.

Offered: Fall (alternate years - even-numbered years.)

MATH 239 - Contemporary Topics in Mathematics II (4)

Topics studied include, and are not limited to: applications to management, electoral politics and fair and equitable conflict resolution.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: MATH 139 or consent of department chair.

Offered: Fall, Spring, Summer.

MATH 240 - Statistical Methods I (4)

Descriptive statistics; confidence intervals and hypothesis testing; random variables; estimations and tests of significance; and correlation and regression are studied. Students cannot receive credit for both MATH 240 and MATH 248.

General Education Category: Mathematics.

Prerequisite: Completed college mathematics competency or appropriate score on the mathematics placement exam.

Offered: Fall, Spring, Summer.

MATH 241 - Statistical Methods II (4)

Continuation of MATH 240 at elementary level. Covers analysis of variance, multiple regression, and non-parametric statistics. Emphasis on large data sets being analyzed through computer software, and interpretation of results. Students cannot receive credit for both MATH 241 and MGT 249, nor for MATH 241 if credit was received for MATH 445.

General Education Category: Advanced Quantitative/Scientific Reasoning

Prerequisite: MATH 240

Offered: As needed.

MATH 245 - Principles of Data Science (4)

Students will be introduced to statistical computing using an appropriate software package. Topics include techniques for visualizing and managing data, statistical modeling including regression, and ANOVA.

Prerequisite: MATH 240 or MATH 248

Offered: Fall, Spring.

MATH 248 - Business Statistics I (4)

Topics include descriptive statistics, probability distributions, expected values, sampling distributions, and an introduction to estimation and hypothesis testing. Students cannot receive credit for both MATH 240 and MATH 248.

General Education Category: Gen. Ed. Advanced Quantitative/Scientific Reasoning.

Prerequisite: MATH 177 or consent of department chair.

Offered: Fall, Spring, Summer.

MATH 300W - Bridge to Advanced Mathematics (4)

The standard techniques of deductive proof in mathematics are applied to basic results regarding sets, relations, functions, and other topics.This is a Writing in the Discipline (WID) course.

Prerequisite: MATH 212 or consent of department chair.

Offered: Spring.

MATH 314 - Calculus III (4)

A continuation of MATH 213, this course covers three-dimensional analytic geometry, elementary vector analysis, functions of several variables, partial differentiation, and multiple integration.

Prerequisite: MATH 213.

Offered: Fall, Spring.

MATH 315 - Linear Algebra (4)

Matrices, linear systems, vector spaces, vector geometry, linear transformations, and appropriate applications are covered.

Prerequisite: MATH 300 or MATH 300W, with a minimum grade of C.

Offered: Fall.

MATH 324 - College Geometry (4)

Advanced topics in Euclidean geometry are considered using synthetic, analytic, vector, and transformational formats. Included are axiomatics and non-Euclidean geometry, topics in logic, and methods of proof appropriate for geometry.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: MATH 212.

Offered: Spring.

MATH 345 - Linear Models for Data Science (4)

Students will apply matrix theory to the study and implementation of linear models to problems in data science. Topics include basic matrix theory with applications to optimization, and machine learning.

Prerequisite: MATH 315 or both MATH 245 and MATH 212.

Offered: Fall.

MATH 409 - Mathematical Problem Analysis (4)

Problem-solving strategies in mathematics are identified. The level of problems and their analyses is designed to give students confidence in their ability to handle problems and a basis for the teaching of problem analysis.

Prerequisite: MATH 143, MATH 144, and either MATH 209 or consent of department chair.

Offered: Fall (alternate years - odd-numbered years.)

MATH 411 - Calculus IV (4)

A continuation of MATH 314, study includes Lagrange multipliers, line integrals, Green's Theorem, transformations and the Jacobian, and an introduction to analysis involving limits and the derivative.

Prerequisite: MATH 314.

Offered: Fall (odd years).

MATH 416 - Ordinary Differential Equations (4)

The fundamentals of differential equations are studied in the context of applications. Topics include analytical and numerical solutions of first- and second-order equations, systems of equations, and modeling.

Prerequisite: Prior or concurrent enrollment in MATH 314.

Offered: Spring (as needed).

MATH 417 - Introduction to Numerical Analysis (4)

Algorithms and computer programs are used/developed to solve various mathematical problems. Topics include numerical solutions of equations, numerical differentiation and integration, and interpolation and approximation of functions.

Prerequisite: MATH 213 and one computer science course, or consent of department chair.

Offered: Spring (as needed).

MATH 418 - Introduction to Operations Research (3)

Operations research is the systematic application of mathematical techniques for generating better decisions for real-world problems. Besides linear programming, topics may include queuing and network analysis.

Prerequisite: MATH 212 or consent of department chair.

Offered: Spring (even years).

MATH 431 - Number Theory (3)

Topics include number systems, divisibility, primes and factorization, Diophantine problems, congruences, and Euler's and Fermat's Theorems.

Prerequisite: MATH 212.

Offered: Fall, Spring.

MATH 432 - Introduction to Abstract Algebra (4)

The definitions and properties of groups, rings, and fields are studied. Properties of familiar number systems are exhibited as special cases of these more general and abstract systems.

Prerequisite: MATH 300 or MATH 300W and MATH 315.

Offered: Spring.

MATH 436 - Discrete Mathematics (3)

Several important areas in noncontinuous mathematics are introduced, including graph theory and its applications, difference equations, and finite-state machines.

Prerequisite: MATH 212.

Offered: Fall, Spring.

MATH 441 - Introduction to Probability (4)

Topics include the development of both discrete and continuous probability theory, combinatorics, mathematical expectation, joint distributions, and sampling distributions.

Prerequisite: MATH 314.

Offered: Fall.

MATH 445 - Advanced Statistical Methods (4)

Students will be introduced to methods that are necessary to analyze large data sets commonly encountered in data science and statistics.

Prerequisite: MATH 345, or MATH 315, or both MATH 436 and prior or concurrent enrollment in CSCI 423.

Offered: Spring.

MATH 458W - History of Mathematics (4)

The history of mathematical thought and the development of mathematics from ancient to modern times are studied. This is a Writing in the Discipline (WID) course.

Prerequisite: MATH 300 or MATH 300W, with a minimum grade of C.

Offered: Fall.

MATH 460 - Seminar in Data Science (3)

Students will participate in a project in which they consider a scientific question, collect and analyze a substantial data set, and formally communicate their results.

Prerequisite: MATH 445

Offered: Spring.

MATH 461W - Seminar in Mathematics (3)

Students analyze, synthesize and expand on mathematics learned in preceding courses, culminating in a substantial project and presentation. This is a Writing in the Discipline (WID) course.

Prerequisite: MATH 441 and prior or concurrent enrollment in MATH 432.

Offered: Spring.

MATH 490 - Directed Study in Mathematics (3)

This course is open to students who have demonstrated superior ability in mathematics. Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated for credit once with a change in content.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MATH 491 - Independent Study in Mathematics (1)

This course is open to students who have demonstrated superior ability in mathematics. Students select a topic and undertake concentrated research or creative activity mentored by a faculty member. This course may be repeated for credit once with a change in content.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MATH 509 - Mathematical Modeling (3)

This course covers various mathematical models including continuous-time models in population dynamics, applications of linear algebra to statistics and optimization including linear regression, linear programing, and other related topics.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

MATH 510 - Exploring Calculus: Renew, Revit, Reexamine (3)

A deeper analysis of the definitions, concepts and theorems of single variable calculus is presented.  Classical and reform approaches are explored.  Connections to higher mathematics are examined.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

MATH 512 - Foundations of Higher Analysis (3)

Fundamental concepts in the theory of calculus are presented. Topics include limits, continuity and uniform continuity, differentiation, the Riemann integral, sequences and series, and convergence criteria.

Prerequisite: Graduate status, MATH 300 or MATH 300W, and MATH 314.

Offered: As needed.

MATH 515 - Introduction to Complex Variables (3)

Techniques and concepts of the algebra and calculus of functions of one complex variable are studied, including trigonometric, exponential, and logarithmic functions.

Prerequisite: Graduate status, prior or concurrent enrollment in MATH 314.

Offered: As needed.

MATH 519 - Set Theory (3)

The foundations of set theory and logic are studied in the context of their application in the construction of number systems, from the natural numbers through the reals.

Prerequisite: Graduate status, MATH 300 or MATH 300W, MATH 314, MATH 432, or consent of department chair.

Offered: As needed.

MATH 522 - Combinatorics (3)

The existence, construction, and properties of systems of finite sets whose arrangements satisfy various balance properties are explored. Topics may include combinatorial designs, cyclic construction methods and current research.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

MATH 528 - Topology (3)

Study is made of sets and sequences, various topological spaces, including metric, compactness, connectedness, curves, and mappings.

Prerequisite: Graduate status, MATH 300 or MATH 300W, and MATH 314.

Offered: As needed.

MATH 530 - Advanced Linear Algebra ()

Advanced topics in linear algebra are explored. Topics may include inner product spaces, self-adjoint operators, Jordan canonical form, and the spectral theorem.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

MATH 532 - Algebraic Structures (3)

Selected topics in the development of groups, rings, modules, and fields are covered, including homomorphisms, permutation groups, basic Galois Theory, ring extension problems, and ideals.

Prerequisite: Graduate status, MATH 300 or MATH 300W, and MATH 314.

Offered: As needed.

MATH 540 - Advanced Differential Equations (3)

Advanced topics in differential equations are explored. Topics may include systems of linear and nonlinear equations, boundary value problems, multiple solutions, numerical methods, stability, and current research.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

MATH 551 - Topics in Proof (3)

Varying topics in mathematical proof are examined, from number systems and functions to abstract spaces.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

MATH 552 - Topics in Applied Mathematics (3)

Varying topics in applied mathematics are examined, from numerical and analytical investigations to modeling.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

MATH 553 - Topics in Pure Mathematics (3)

Varying topics in pure mathematics are examined, from number theory and advanced geometries to abstract algebra.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

# MTET - Mathematics for Elementary Teachers

MTET 511 - Delving Deeper: Number and Operations (3)

Students analyze the structure of number and operations in grades K-6 mathematics. Students learn to make connections beyond the elementary level. Topics include place, value, operations, and number systems. Hybrid course.

Prerequisite: Graduate status, elementary-level teacher certification and at least two years of teaching experience.

Offered: As needed.

MTET 512 - Delving Deeper: Functions and Algebra (3)

Students analyze the structure of functions and algebra in grades K-6 mathematics. Students learn to make connections beyond the elementary level. Topics include variables, patterns, and equations. Hybrid course.

Prerequisite: Graduate status, elementary-level teacher certification and at least two years of teaching experience.

Offered: As needed.

MTET 513 - Delving Deeper: Geometry and Measurement (3)

Students analyze the structure of geometry and measurement in grades K-6 mathematics. Students learn to make connections beyond the elementary level. Topics include equivalence, shape, and reasoning. Hybrid course.

Prerequisite: Graduate status, elementary-level teacher certification and at least two years of teaching experience.

Offered: As needed.

MTET 514 - Delving Deeper: Data Analysis and Statistics (3)

Students examine the structure of data analysis and statistics in grades K-6 mathematics. Students learn to make connections beyond the elementary level. Topics include question formation, data analysis, and inference. Hybrid course.

Prerequisite: Graduate status, elementary-level teacher certification and at least two years of teaching experience.

Offered: As needed.

MTET 515 - Delving Deeper: Problem Analysis (3)

Students examine the structure of problem analysis in grades K-6 mathematics. Students learn to make connections beyond the elementary level. Topics include problem selection, problem strategies, and problem posing. Hybrid course.

Prerequisite: Graduate status, elementary-level teacher certification and at least two years of teaching experience.

Offered: As needed.

# MEDI - Medical Imaging

MEDI 201 - Orientation to Medical Imaging (1)

Topics include the history of medical imaging, the technologist's role on the health care team, equipment, clinical settings and the various modalities in diagnostic imaging. (Formerly RADT 201 Orientation to Medical Imaging.)

Prerequisite: BIOL 231 and MATH 209.

Offered: Fall, Spring.

MEDI 202 - Introduction to Medical Imaging (1.5)

Presents the history of various specialties in medical imaging, and the technologist's role in the health care team. Safety and ethics, accreditation, certification and professional organizations will also be discussed.

Prerequisite: MEDI 201 or RADT 201, and acceptance into a medical imaging clinical program.

Offered: Fall.

MEDI 203 - Complete Introduction to Medical Imaging (3)

Students learn about the history of imaging, discovery of x-rays, and the specialties. Student’s time-management, safety and professional ethics will be emphasized.

Prerequisite: Acceptance into a Medical Imaging Clinical Program

Offered: Fall

MEDI 205 - Medical Terminology in Medical Imaging (1)

Students will become proficient in the basic medical terminology utilized in medical imaging.

Prerequisite: Acceptance into a Medical Imaging Clinical Program.

Offered: Fall.

MEDI 255 - Patient Care in Medical Imaging (3)

Students will learn the patient care skills needed for safe practice in the healthcare environment.

Prerequisite: Acceptance into a Medical Imaging Clinical Program

Offered: Fall.

MEDI 308 - Professional Behavior in Medical Imaging (3)

Through role play and scenarios, students will learn and practice essential verbal and nonverbal communication skills necessary for the healthcare environment.

Prerequisite: Acceptance into a Medical Imaging Clinical Program.

Offered: Fall.

MEDI 309 - Sectional Anatomy in Medical Imaging (3)

Students will learn the of anatomical structures of the human body.  Topics include relationship of structures to surrounding tissues and location of structures on multiple imaging planes.

Prerequisite: Acceptance into a Medical Imaging Clinical Program.

Offered: Fall.

MEDI 410 - Pathology in Medical Imaging (3)

Students will be shown how disease processes are diagnosed using medical imaging. They will learn how disease processes work and recognize the appearance of diseases through different modalities.

Prerequisite: MEDI 309.

Offered: Fall

MEDI 463W - Senior Seminar in Medical Imaging (3)

In their final year, medical imaging students will complete an approved project and present their results in a public seminar. This is a Writing in the Discipline (WID) course.

Prerequisite: DMS 433 or MEDI 410.

Offered: Spring.

MEDI 491-494 - Independent Study in Medical Imaging (1-4)

The experimental aspects and recent advances in different fields of medical imaging are examined. A research project in the field is required.

Prerequisite: Acceptance into a Medical Imaging Clinical Program, consent of instructor, program director and dean.

Offered: As needed.

# MEDT - Medical Technology

MEDT 301 - Clinical Microbiology (8)

The relationship of bacteria to human bacterial diseases is discussed, with emphasis on the application of procedures to medical diagnosis. Also studied are fungi, viruses, the rickettsias, and human parasites.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Fall.

MEDT 302 - Clinical Chemistry (8)

The chemistry of body constituents and its relationship to the diagnosis of human disease is presented, with emphasis on principles and methods of analysis.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Spring.

MEDT 303 - Immunohematology (4)

Instruction is given in drawing and processing blood and in how to ascertain compatibility. Donor-recipient blood and tissue reactions are studied in detail.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Fall.

MEDT 304 - Hematology (6)

The morphology of blood and blood-forming organs are studied, along with the abnormalities associated with disease. The dynamics of and diagnostic tests for hemostasis are also examined.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Spring.

MEDT 305 - Pathophysiology (2)

This is an introduction to pathology. Topics include the correlation between pathological processes and clinical symptoms and the course of disease.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Fall.

MEDT 306 - Clinical Immunology (2)

The formation, structure, and action of antigens and antibodies are described. Topics also include methods of immunization. Laboratory emphasis is on serological procedures in the diagnosis of disease.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Spring.

MEDT 307 - Clinical Microscopy (2)

Focus is on the analysis of body fluids. Lecture and laboratory.

Prerequisite: Acceptance into the B.S. in health sciences with concentration in medical laboratory sciences program.

Offered: Fall.

# MLED - Middle Level Education

MLED 230 - Young Adolescent Development in Social Contexts (4)

Students examine adolescent identity development as a time of exploration and co-construction within the context of middle level structures and policies, families and communities.

Offered: Fall, Spring, Summer.

MLED 310 - Teaching Early Adolescents (3)

Students examine the developmental characteristics of early adolescence and implications for teaching.

Prerequisite: CEP 215 or consent of department chair.

Offered: Fall, Spring, Summer.

MLED 320 - Middle School Organization and Integrated Curriculum (4)

Students examine the emergence of the modern middle school and its components: teaming, advisory, flexible scheduling, and differentiated instruction.

Prerequisite: MLED 310; and for elementary education students, ELED 300; and for secondary education students, prior or concurrent enrollment in SED 407; or consent of department chair.

Offered: Fall, Spring, Summer.

MLED 330 - Interdisciplinary Reading and Writing in Middle Schools (3)

Students develop content area lessons that enable middle level students to read, write, and think critically in the content area.

Prerequisite: MLED 320; and for elementary education students, prior or concurrent enrollment in a methods course; and for secondary education students, SED 407; or consent of department chair.

Offered: Fall, Spring, Summer.

MLED 331 - Disciplinary Literacies with Young Adolescents (4)

Students examine traditional, critical and digital literacy practices at the middle level. Students also develop, implement, and reflect on lessons grounded in disciplinary literacies and content area standards, including CCSS.

Prerequisite: MLED 230.

Offered: Fall, Spring.

MLED 332 - Curriculum and Assessment for Young Adolescents (4)

Students explore curriculum and assessment at the middle level. Students are also challenged to critically examine curriculum and assessment choices they make, and to cultivate their learners’ agency.

Prerequisite: MLED 230, MLED 331, or consent of department chair.

Offered: Fall, Spring.

MLED 340 - Differentiated Elements in Middle School Instruction (3)

Preservice teachers focus on methods of selecting strategies to meet the needs of diverse learners and the relationship between assessments and planning for instruction in the differentiated classroom.

Prerequisite: MLED 330.

Offered: Fall, Spring, Summer.

MLED 510 - Teaching and Learning at the Middle-Level (3)

Students examine the physical, emotional, social, and intellectual characteristics of early adolescents and the impact of society on early adolescents. A practicum of fifteen hours is required.

Prerequisite: Admission to the Middle-Level CGS.

Offered: As needed.

MLED 520 - Curriculum and Organization of Middle-Level Schools (3)

Students examine the emergence of middle-level schools and its components: teaming, advisory, flexible scheduling, common core, instruction, and assessment. A practicum of eight hours is required.

Prerequisite: Graduate status and MLED 510 or consent of department chair.

Offered: As needed.

MLED 530 - Applications of Middle-Level Instructional Models (3)

Students develop lessons for all content areas, using reading and writing strategies to promote literacy and critical thinking in middle-level teaching and learning. Students participate in a fifteen-hour practicum.

Prerequisite: Graduate status and MLED 520 or consent of department chair.

Offered: As needed.

MLED 531 - Critical Inquiry in Middle Level Education (2)

In this foundational course students are introduced to the historical context of middle level education. Middle level policy is explored through a critical inquiry framework.

Prerequisite: Initial Teacher Certification (Elementary or Secondary), at least 21 credits in the content area, or consent of department chair.

Offered: Summer.

MLED 532 - Contextualizing Young Adolescent Development (4)

This course addresses adolescent identity development as a time of exploration and co-construction within the context of middle level structures and policies, families and communities.

Prerequisite: MLED 531 or consent of department chair.

Offered: Fall.

MLED 533 - Disciplinary Literacies with Young Adolescents I (2)

Students will expand traditional definitions of literacy in the middle level classroom to include reading and writing of standard text and digital and critical literacies.

Prerequisite: MLED 531 or consent of department chair.

Offered: Fall.

MLED 534 - Disciplinary Literacies with Young Adolescents II (2)

This course addresses traditional, critical and digital literacy practices at the middle level. Students develop, implement and reflect on lessons grounded in CCSS disciplinary literacies and content area standards.

Prerequisite: Admission to C.G.S. and MLED 533 or consent of department chair.

Offered: Spring.

MLED 535 - Curriculum and Assessment for Young Adolescents (4)

This course addresses curriculum and assessment at the middle level. This course challenges students to interrogate the curriculum and assessment choices they make and to cultivate their learners’ agency.

Prerequisite: Admission to C.G.S. and MLED 533 or consent of department chair.

Offered: Spring.

MLED 536 - Seminar in Middle School Education (1)

This is a capstone course where students will demonstrate theoretical and pedagogical understandings of middle level education.

Prerequisite: MLED 535 or consent of department chair.

Offered: Summer.

MLED 540 - Practicum in Middle Level Instruction (4)

The development and application of instructional plans are facilitated, using middle-level differentiated strategies. Students examine the components of differentiated strategies. Students participate in a thirty-hour practicum. 3 contact hours.

Prerequisite: Graduate status and MLED 530 or consent of department chair.

Offered: As needed.

# MSCI - Military Science

MSCI 101 - Leadership and Personal Development (3)

Introduces students to the personal challenges and competencies that are critical for effective leadership. The focus is on developing basic knowledge and comprehension of Army leadership dimensions.

Offered: Fall.

MSCI 102 - Introduction to Tactical Leadership (3)

Basic leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, Cadre role models and using effective writing skills are covered.

Offered: Spring.

MSCI 201 - Foundations of Leadership I (3)

Explores dimensions of creative and innovative tactical leadership strategies and styles, by examining team dynamics and the trait and behavior leadership theories that form the Army leadership framework.

Offered: Fall.

MSCI 202 - Foundations of Leadership II (3)

Highlighting dimensions of operation orders, terrain analysis and patrolling, further study of the theoretical basis of Army Leadership Requirements explores dynamics of adaptive leadership in the context of military operations.

Offered: Spring.

MSCI 301 - Applied Leadership (3)

The focus is on developing cadets’ tactical leadership abilities through scenarios related to squad tactical operations.

Prerequisite: MSCI 202.

Offered: Fall

MSCI 302 - Team Leadership (3)

The focus is on exploring, evaluating and developing skills in decision-making, persuading and motivating team members.

Prerequisite: MSCI 301.

Offered: Spring.

MSCI 401 - Adaptive Leadership (3)

Focuses on areas critical in students’ future roles as officers, including the Military Decision-Making Process, training management, counseling, risk management, effective communication, ethical/moral decision-making and administrative systems.

Prerequisite: MSCI 302.

Offered: Fall.

MSCI 402 - Leadership in a Complex World (3)

Significant emphasis is placed on preparing students to face the complex ethical and practical demands of leading soldiers in the U.S. Army using case studies and exercises.

Prerequisite: MSCI 401.

Offered: Spring.

# MLAN - Modern Languages

MLAN 320 - Internship in Modern Languages (1-4)

Students are placed in organizations appropriate to their concentrations. Sites may include advocacy agencies, nonprofit agencies and businesses. May be repeated once up to a total of 4 credits.

Prerequisite: Completion of two 300-level courses in a modern languages concentration and an overall GPA of 2.67.

Offered: As needed.

MLAN 360 - Seminar in Modern Languages (3)

Students examine the relationships, commonalities, and differences among the cultures taught in the modern languages major. Study may include art, film, geography, literature, and philosophy.

Prerequisite: Completion of two 300-level courses and one cognate course in a modern languages concentration and an overall GPA of 2.67.

Offered: Annually.

MLAN 400 - Applied Linguistics (3)

Meaning and nature of language and its application to the teaching of foreign languages is studied. Emphasis on the planning and presentation of basic audio-lingual structures. Practical work is included. Taught in english.

Prerequisite: Completion of TWO of the following: for French (FREN 313, FREN 323 or FREN 324); for Portuguese (PORT 301, PORT 302, PORT 304, PORT 305); or for Spanish (SPAN 310, SPAN 311, SPAN 312, or SPAN 313); admission to PK-12 World Languages program, or consent of department chair.

Offered: Annually.

# MUS - Music

MUS 091 - Student Recital Series (0)

Students who are enrolled in MUS 270-289 or 370-389 must attend a specified number of recitals and perform on their principal instruments at least once each semester, beginning with the second semester of study. Graded H, S, U. 1 contact hour.

Offered: Fall, Spring.

MUS 101 - Beginning Piano (1)

Note-reading, rhythm, and finger coordination are studied. Individual practice is required, but no previous musical training is necessary.

Offered: Fall, Spring.

MUS 102 - Beginning Guitar (1)

The basics of fingering melodies, chords, and accompaniments are studied. No previous musical training is required. Students must supply their own guitars.

Offered: Fall, Spring.

MUS 103 - Beginning Voice (1)

Study is made of basic vocal production and singing styles, with emphasis on interpretation. No previous musical training is required.

Offered: Fall, Spring.

MUS 104 - Class Piano I (1)

Students will develop keyboard manipulative skills, including the use of primary triads in accompaniment patterns, transposition, sight reading, improvisation and basic pedaling technique. 3 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall, Spring.

MUS 105 - Class Piano II (1)

Students will continue development of keyboard skills learned in MUS 104, including  keyboard harmony using primary and secondary triads, altered chords and piano literature from various periods. 3 contact hours.

Prerequisite: MUS 104.

Offered: Fall, Spring.

MUS 106 - Class Strings (1)

The basic techniques of orchestral strings are studied. Pedagogy and a knowledge of basic materials are also considered. 3 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall.

MUS 107 - Class Voice (1)

Basic vocal pedagogy is stressed in preparation for a career in music education. Included are vocal production, diction, interpretation technique, and standard vocal repertoire. 3 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Spring.

MUS 110 - Brass Class (1)

The basic techniques of brass instruments are studied. Pedagogy and basic teaching materials are also considered. 3 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall.

MUS 111 - Woodwinds Class (1)

The basic techniques of woodwind instruments are studied. Pedagogy and basic teaching materials are also considered. 3 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Spring.

MUS 112 - Percussion Class (1)

The basic techniques of percussion instruments are studied. Pedagogy and basic teaching materials are also considered. 2 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall.

MUS 113 - Basic Rhythm (1)

Students target and master rhythmic fundamentals through a hands-on approach by isolating rhythm from other elements of music reading. 2 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall, Spring.

MUS 161-163 - Large Ensembles (0.5)

These courses are open to all qualified students by audition. 161 Chorus, 162 Wind Ensemble, 163 Orchestra. 4 contact hours.

Offered: Fall, Spring.

MUS 164-166 - Chamber Ensembles (1)

These courses are open to all qualified students by audition. Since balanced groups are necessary, selection of participants is made by the instructor. 164 Chamber Music Ensemble (instrumental and vocal chamber music, including duos, trios, and quartets), 165 Jazz Ensemble, 166 Chamber Singers. 4 contact hours.

Offered: Fall, Spring.

MUS 167 - Music Cultures of Non-Western Worlds (4)

Selected music cultures of the non-Western world are introduced and critical studies are made of the cultural and social contexts of music.

General Education Category: Arts - Visual and Performing

Offered: Fall, Spring.

MUS 168 - Jazz Combo (1)

This is an applied practice of theoretical concepts from jazz theory for student small jazz ensembles. 2 contact hours.

Offered: Fall, Spring.

MUS 170-189 - Applied Music (1)

Private study is given in any of the instruments listed below. Study consists of fourteen weekly, thirty-minute private lessons. A fee is charged in addition to the regular college fees. This course may be repeated for credit.  
170 Violin, 171 Viola, 172 Cello, 173 String Bass, 174 Voice, 175 Clarinet-Saxophone, 176 Flute, 177 Oboe-English Horn, 178 Bassoon, 179 Trumpet, 180 French Horn, 181 Trombone-Baritone, 182 Tuba, 183 Organ, 184 Piano, 185 Classical Guitar, 186 Percussion, 187 Applied Jazz, 188 Harp, 189 Harpsichord

Prerequisite: Consent of department chair.

Offered: Fall, Spring, Summer.

MUS 174 - Voice (1)

Prerequisite: Consent of department chair.

Offered: Fall, Spring, Summer.

MUS 201 - Survey of Music (4)

Musical eras, styles, forms, and basic vocabulary are introduced to the nonmusic major through music literature. An ability to read music is not required. Online in summer.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

MUS 202 - Basic Music Theory for Vocalists (1)

Musical Theatre or Theatre majors enrolled in voice lessons study basic music theory, including sight reading, sight singing, rhythm, basic keyboard skills and more, to become more self-sufficient singers.

Offered: Fall, Spring.

MUS 203 - Elementary Music Theory (4)

Fundamentals of scale construction, intervals, syllables, clefs, rhythms, and form are studied, with emphasis on musical acuteness through ear training, sight singing, and dictation.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

MUS 204 - Sight Singing and Ear Training (1)

Students develop basic sight-singing and rhythm-reading techniques, using the movable "do" system. Included is melodic material based on pentatonic scales, major and minor scales, and triadic patterns. 2 contact hours.

Offered: Spring.

MUS 205W - Music History and Literature I (3)

Students become familiar with the first three of six eras of Western art music history (medieval, Renaissance, and baroque) and explore the scores, styles, genres, composers, and historical and cultural events. This is a Writing in the Discipline (WID) course.

Prerequisite: MUS 230 and MUS 232, or consent of instructor.

Offered: Fall.

MUS 206W - Music History and Literature II (3)

Students become familiar with the last three of six eras of Western art music history (classical, romantic, and modern) and explore the scores, styles, genres, composers, and historical and cultural events. This is a Writing in the Discipline (WID) course.

Prerequisite: MUS 230 and MUS 232, or consent of instructor.

Offered: Spring.

MUS 207 - Electronic Music (4)

This studio course is designed for students with little or no experience in electronic music. Students become familiar with the basic components of the electronic lab and create electronic compositions.

Offered: As needed.

MUS 210 - Language Orientation I (1)

Students will develop proficiency in the use of the International Phonetic Alphabet as applied to song and choral texts in English, Italian and Latin. 2 contact hours.

Prerequisite: Concurrent enrollment in MUS 274 or MUS 374.

Offered: Fall.

MUS 211 - Language Orientation II (1)

Students will develop proficiency in the use of the International Phonetic Alphabet as applied to song and choral texts in French and German. 2 contact hours.

Prerequisite: MUS 210 and concurrent enrollment in MUS 274 or MUS 374.

Offered: Spring.

MUS 220 - Digital Audio Production I (4)

Students learn to create and analyze digital audio production projects in multiple forms and within different contexts. Studio based voice, music, sound design, and audio storytelling techniques are highlighted. Students cannot receive credit for both COMM 220 and MUS 220.

General Education Category: Arts - Visual and Performing

Cross-Listed as: COMM 220.

Offered: Fall, Spring, Summer.

MUS 221 - Advanced Digital Audio Production (3)

This course serves as a project-based continuation and extension of Digital Audio Production I, including sound production, recording and transmission, composition and arranging, editing, mixing and mastering. Offered for EEP credit as an elective only.

Offered: As needed.

MUS 222 - Digital Audio Production II (4)

This course serves as a project-based extension of Digital Audio Production I, including continued exploration of sound recording and transmission, composition and arranging, editing, mixing and mastering. Students cannot receive credit for both COMM 222 and MUS 222.

Cross-Listed as: COMM 222.

Offered: As needed.

MUS 223 - American Popular Music (4)

The growth of popular music in the United States is surveyed from its historical background.

Offered: Fall, Spring.

MUS 225 - History of Jazz (4)

Jazz styles, forms, and basic vocabulary are introduced to the non-music major through music literature and sound. Listening outlines will be created and used to help develop skills. An ability to read music is not required.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring.

MUS 230 - Music Theory I (3)

Students are introduced to the principles of music organization through the study of scales, intervals, triads, cadences, and the harmonization of soprano and bass lines using primary triads.

Prerequisite: Music major or consent of department chair.

Offered: Fall.

MUS 231 - Sight Singing and Ear Training I (1)

Study includes basic rhythm, scale, and chord patterns. 2 contact hours.

Prerequisite: Music major or consent of department chair.

Offered: Fall.

MUS 232 - Music Theory II (3)

A continuation of MUS 230, emphasis is on modulations, seventh chords, chorale writing, binary and ternary forms, and score-reading techniques.

Prerequisite: MUS 230.

Offered: Spring.

MUS 233 - Sight Singing and Ear Training II (1)

A continuation of MUS 231, emphasis is on seventh chords and more complex rhythmic patterns. 2 contact hours.

Prerequisite: MUS 231.

Offered: Spring.

MUS 234 - Music Theory III (3)

A continuation of MUS 232, emphases are on the polyphonic techniques of the eighteenth century, altered chords, borrowed chords, and forms of the baroque and classical periods, such as the sonata, inventions, fugues, and canons.

Prerequisite: MUS 232.

Offered: Fall.

MUS 235 - Sight Singing and Ear Training III (1)

A continuation of MUS 233, emphasis is on melodies and harmonic progressions using altered chords and modulations. 2 contact hours.

Prerequisite: MUS 233.

Offered: Fall.

MUS 236 - Music Theory IV (3)

A continuation of MUS 234, emphasis is on chromatic harmony and extended chords, forms of the romantic period, and twentieth-century compositional practices.

Prerequisite: MUS 234.

Offered: Spring.

MUS 237 - Sight Singing and Ear Training IV (1)

Advanced study includes atonal melodies and contemporary rhythm patterns. 2 contact hours.

Prerequisite: MUS 235.

Offered: Spring.

MUS 238 - Jazz Theory I (3)

This is an introduction to the application of the diatonic major-minor modes, chord changes, and use of the supertonic seventh, dominant seventh, and tonic chords for improvisation, composition, and arranging.

Prerequisite: MUS 203 or consent of department chair.

Offered: Fall.

MUS 239 - Jazz Theory II (3)

Students are introduced to chromatic chord substitutes, including all nondiatonic diminished, whole tone scales, and tritone applications that are normally not found in the major/minor scales.

Prerequisite: MUS 238.

Offered: As needed.

MUS 241 - Musical Theatre Singing (1)

Students learn to sing in ways that are technically sound, functionally healthy, and stylistically accurate for musical theatre. 1-2 contact hours.

Prerequisite: Consent of department chair.

Offered: Fall, Spring.

MUS 261 - Music and Multimedia (4)

This course will investigate the history and aesthetics of music and multimedia through five constituent aspects: integration, interactivity, hypermedia, immersion, and narrativity through readings as well as selected media works.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: As needed.

MUS 268 - Opera Workshop (1)

Singers and pianists are prepared to better meet the demands of the musical stage. Emphasis is on the skills necessary for a career in opera and musical theatre as singers and/or coaches. 4 contact hours.

Prerequisite: Consent of instructor and department chair.

Offered: Fall, Spring.

MUS 269 - Master Class in Applied Music (1)

Students enrolled in applied music augment their knowledge of literature and performance techniques. Topics include pedagogy, memorization, practice techniques, and other topics relevant to appropriate applied sections. 2 contact hours.

Prerequisite: Consent of instructor and department chair.

Offered: As needed.

MUS 270-289 - Applied Music (2)

Advanced private study is given in voice or any one of the instruments listed below. A fee is charged in addition to the regular college fees.  
270 Violin, 271 Viola, 272 Cello, 273 String Bass, 274 Voice, 275 Clarinet-Saxophone, 276 Flute, 277 Oboe-English Horn, 278 Bassoon, 279 Trumpet, 280 French Horn, 281 Trombone-Baritone, 282 Tuba, 283 Organ, 284 Piano, 285 Classical Guitar, 286 Percussion, 287 Applied Jazz, 288 Harp, 289 Harpsichord. 1 contact hour.

Prerequisite: Except for students enrolled in MUS 287, students must be concurrently enrolled in MUS 091.

Offered: Fall, Spring, Summer.

MUS 274 - Voice (2)

Advanced private study in voice. A fee is charged in addition to the regular College fees.

Prerequisite: Except for students enrolled in MUS 290, students must be concurrently enrolled in MUS 091.

Offered: Fall, Spring, Summer

MUS 288 - Harp (2)

Advanced private study. A fee is charged in addition to the regular College fees.

Prerequisite: except for students enrolled in MUS 290, students must be concurrently enrolled in MUS 091.

Offered: Fall, Spring, Summer

MUS 289 - Harpsichord (2)

Advanced private study. A fee is charged in addition to the regular College fees.

Prerequisite: Except for students enrolled in MUS 290, students must be concurrently enrolled in MUS 091.

Offered: Fall, Spring, Summer

MUS 305 - Form and Analysis (3)

A detailed study of the design and style of musical structure is presented. The small and large forms covered include binary and ternary design, song form, variations, rondo, sonata form, and various hybrid forms.

Prerequisite: MUS 232 or consent of instructor.

Offered: Fall (odd years).

MUS 307 - Composition (3)

Techniques of musical composition in the smaller forms are studied. Extensive experience in form and analysis is required to complete original compositions.

Prerequisite: MUS 232 and MUS 305, or consent of instructor.

Offered: Fall (even years).

MUS 308 - Fundamentals of Conducting (2)

Basic instrumental- and choral-conducting techniques and score reading are presented. Study includes practical experience with ensembles. 4 contact hours.

Prerequisite: MUS 205 or MUS 205W, MUS 206 or MUS 206W, and MUS 236.

Offered: Fall.

MUS 310 - Medieval and Renaissance Music (3)

Music literature from its ancient beginnings through the Middle Ages and the Renaissance is studied. Included are plainchant, polyphony, sacred and secular music, and problems in early notation.

Prerequisite: MUS 205 or MUS 205W, and MUS 206 or MUS 206W and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (even years).

MUS 311 - Music of the Baroque (3)

Music literature from the last decade of the sixteenth century to the middle of the eighteenth century is presented. Included is the development of instrumental and vocal music, culminating in the music of J. S. Bach and Handel.

Prerequisite: MUS 205 or MUC 205W and MUS 206 or MUS 206W and either MUS 203 or MUS 230, or consent of instructor.

Offered: Fall (even years).

MUS 312 - Music of the Classical Era (3)

Music literature from the mid-eighteenth century to about 1825 is studied, including precedents in the rococo period. Representative works are analyzed.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (odd years).

MUS 313 - Music of the Romantic Period (3)

Music literature during the nineteenth century is studied, including the late romantic composers. Representative works in various forms are analyzed.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 2065W and either MUS 203 or MUS 230, or consent of instructor.

Offered: Fall (odd years).

MUS 314 - Twentieth-Century Music (3)

Music literature since 1900 is studied, with emphasis on major contemporary developments as seen in the music of Schoenberg, Bartok, Stravinsky, Webern, Berg, and Hindemith.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (even years).

MUS 321 - Orchestration (3)

The range, tonal quality, and characteristics of various orchestral and band instruments are studied. Included are problems and projects in scoring for various ensembles.

Prerequisite: MUS 232 or consent of instructor.

Offered: Spring (odd years).

MUS 323 - Counterpoint (3)

Contrapuntal practices, including species counterpoint through twentieth-century styles, are studied. Forms include canon, invention, fugue, passacaglia, and others. Extensive writing and special projects are included.

Prerequisite: MUS 236.

Offered: Spring (even years).

MUS 360 - Seminar in Music Literature (2)

Students concentrate on a selected topic and engage in intensive study and discussion of a major composer or an important historical development. Emphasis is on research techniques. 3 contact hours.

Prerequisite: MUS 205 or MUS 205W, MUS 206 or MUS 206W, MUS 232, and one course from MUS 310, MUS 311, MUS 312, MUS 313, MUS 314; or consent of instructor.

Offered: Spring.

MUS 366 - Accompanying (1)

Practical experience is provided in accompanying for instrumental and vocal soloists. This course may be repeated for elective or degree-required credit hours. Open to pianists, organists, and guitarists.

Prerequisite: Consent of instructor.

Offered: Fall, Spring.

MUS 370-389 - Applied Music (3)

Advanced private study is given in voice or any one of the instruments listed below. A fee is charged in addition to the regular college fees.  
370 Violin, 371 Viola, 372 Cello, 373 String Bass, 374 Voice, 375 Clarinet-Saxophone, 376 Flute, 377 Oboe-English Horn, 378 Bassoon, 379 Trumpet, 380 French Horn, 381 Trombone-Baritone, 382 Tuba, 383 Organ, 384 Piano, 385 Classical Guitar, 386 Percussion, 388 Harp, 389 Harpsichord. 1 contact hour.

Prerequisite: Concurrent enrollment in MUS 091 and acceptance into the B.M. in music with concentration in performance program.

Offered: Fall, Spring.

MUS 374 - Voice (3)

Advanced private study is given in voice. A fee is charged in addition to the regular college fees.

Prerequisite: Concurrent enrollment in MUS 091 and acceptance into the B.M. in music with a concentration in performance program.

MUS 390 - Directed Study (3)

Directed study is designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MUS 391W - Junior Recital (0)

This is a half-hour solo recital of appropriate literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: 15 credit hours (five semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 408 - Advanced Conducting (3)

A continuation of MUS 308, this course further develops the student's technical skill in choral and instrumental conducting.

Prerequisite: MUS 308 or consent of department chair.

Offered: Spring.

MUS 458 - Twentieth-Century Theory (3)

The theoretical and compositional techniques of twentieth-century composers is studied.

Prerequisite: MUS 236 or consent of instructor.

Offered: As needed.

MUS 490 - Independent Study in Music (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. The independent study in music may be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Junior or senior standing, and consent of instructor, department chair and dean.

Offered: As needed.

MUS 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Junior or senior standing, consent of instructor, department chair and dean, and admission to the music honors program.

Offered: As needed.

MUS 492W - Senior Recital-Music Education (0)

This is a half-hour solo recital of representative literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: 12 credit hours (six semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 493W - Senior Recital-Music Performance Majors (0)

This is a one-hour solo recital of representative literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: MUS 391W and 21 credit hours (seven semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 494 - Independent Study II (3)

This course continues the development of research or activity begun in MUS 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: MUS 491 and consent of instructor, department chair and dean.

Offered: As needed.

MUS 505 - Systems of Musical Analysis (3)

Music from the Gregorian Chant to contemporary works are analyzed. Emphasis is on modal theory, theories of Schenker and Hindemith, and set theory.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall (even years).

MUS 508 - Applied Conducting (2)

Private lessons are given in instrumental and/or choral conducting, leading to a graduate recital in conducting. This course may be repeated for credit. 2-3 contact hours.

Prerequisite: Matriculation into the M.M.Ed. or the M.A.T. program and consent of department chair.

Offered: Fall, Spring, Summer.

MUS 521 - The Symphony (3)

Focus is on the history of the symphony, with emphasis on its continuous stylistic and formal development. Students investigate individual symphonies. Analytical procedures are stressed.

Prerequisite: Graduate status.

Offered: Fall (even years).

MUS 522 - Opera (3)

The opera from Monteverdi to the present is explored, with equal emphasis on each century involved. Analytical procedures are stressed.

Prerequisite: Graduate status.

Offered: Spring (odd years).

MUS 560 - Seminar in Music Literature (3)

Students concentrate on a selected topic and engage in intensive study of a major composer or of an important historical development. Emphasis is on research techniques.

Prerequisite: Graduate status and consent of instructor.

Offered: Spring (even years).

MUS 561-563 - Large Ensembles (0.5)

These courses are open to all qualified students by audition. 4 contact hours.

Prerequisite: Graduate status.

Offered: Fall, Spring.

MUS 564-566 - Chamber Ensembles (1)

These courses are open to all qualified students by audition. Since balanced groups are necessary, selection of participants is made by the instructor. 4 contact hours.

Prerequisite: Graduate status.

Offered: Fall, Spring.

MUS 567 - Master Class in Conducting (1)

Instrumental or choral conducting is presented in a one-day participatory master class, which includes conducting with a lab ensemble, coaching by a guest clinician, a videotape review, and writing a reflective paper. 8-10 contact hours.

Prerequisite: Graduate standing.

Offered: As needed.

MUS 568 - Opera Workshop (2)

Focus is on the skills necessary for a career in opera and musical theatre as singers and/or coaches. 4 contact hours.

Prerequisite: Graduate status, consent of instructor and department chair.

Offered: Fall, Spring.

MUS 570-589 - Applied Music (2)

Private study is available in voice or any one of the instruments listed below. A fee is charged in addition to the regular college fees. 1 contact hour.

Prerequisite: Graduate status.

Offered: Fall, Spring, Summer.

MUS 590 - Independent Study (1-6)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Graduate status.

Offered: As needed.

MUS 591 - Graduate Recital (0)

Students perform a public recital of literature from various stylistic periods.

Prerequisite: Graduate status and consent of departmental graduate committee.

Offered: As needed.

# MUSE - Music Education

MUSE 212 - Introduction to Music Education (2)

Students will explore teaching K-12 music in a school setting through the study of classroom instruments and singing, video analysis, readings, discussions and observations of teachers in public schools. 2 contact hours.

Prerequisite: FNED 246, MUS 105, MUS 234, MUS 235 (with B- or better), and successful audition for entrance into music education program.

Offered: Spring.

MUSE 241 - Methods and Materials in Music Education (2)

The theory and pedagogy of teaching music in grades one through six are studied. Not for music education majors. 3 contact hours.

Offered: Fall, Spring, Summer.

MUSE 412 - General Music Practicum in Music Education (3)

Teacher Candidates will examine lesson planning, curriculum development, repertoire selection and musicianship skills for the general music classroom through readings, discussions, performances and field placement teaching. 6 contact hours.

Prerequisite: MUSE 212 (B- or better), Admission to the Feinstein School of Education and Human Development.

Offered: Spring.

MUSE 413 - Secondary Ensemble Practicum in Music Education (3)

Teacher Candidates examine lesson planning, instructional practices, rehearsal strategies and repertoire for secondary choral and instrumental ensembles through readings, discussions, performances and field placement teaching. 6 contact hours.

Prerequisite: MUSE 212 (B- or better), Admission to the Feinstein School of Education and Human Development.

Offered: Fall.

MUSE 424 - Student Teaching in Music Education (10)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: MUSE 413 and all major and professional courses required prior to student teaching; concurrent enrollment in MUSE 460; a positive recommendation from the professor of each professional course; a cumulative GPA of 2.50 a full semester prior to student teaching; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; completion of the community service requirement, and a negative result from the required tuberculin test.

Offered: Fall, Spring.

MUSE 460 - Student Teaching Seminar in Music Education (2)

Teacher behaviors appropriate to effective teaching are developed. Topics include classroom and time management, effective communication, learning styles, and teaching strategies. This seminar meets weekly.

Prerequisite: Concurrent enrollment in MUSE 424.

Offered: Fall, Spring.

MUSE 501 - Research Techniques in Music Education (3)

Research techniques in music education are applied. The bibliography is explored, and standard sources are used.

Prerequisite: Graduate status and consent of instructor.

Offered: Spring (even years).

MUSE 502 - Perception, Assessment, and Evaluation in Music (3)

The nature of musical perception, discrimination, and talent are studied, with emphasis on music aptitude and the theories on which they are based, such as learning theories. Included are standard evaluation techniques.

Prerequisite: Graduate status.

Offered: Summer (odd years).

MUSE 503 - School Music Administration and Supervision (3)

The factors involved in administering and supervising school music programs are examined.

Prerequisite: Graduate status or consent of instructor.

Offered: Summer (even years).

MUSE 512 - Introduction to Music Education (2)

Students will explore teaching K-12 music in a school setting through the study of classroom instruments and singing, video analysis, readings, discussions and observations of teachers in public schools. 2 contact hours.

Offered: Spring

MUSE 525 - Advanced Studies in Music Education (3)

Basic concepts in the philosophy of music education, aesthetics, the history of music education, sociology, and psychology are presented.

Prerequisite: Graduate status and consent of instructor.

Offered: Summer (odd years).

MUSE 526 - Student Teaching in Music Education (7)

In this culminating field experience, candidates complete a teaching experience in an elementary and secondary school under the supervision of cooperating teachers and a college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Graduate status, MUSE 412, 413, and all major and professional courses required prior to student teaching; concurrent enrollment in MUSE 560; a cumulative GPA of 3.00 a full semester prior to student teaching; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; completion of the community service requirement; and a negative result from the required tuberculin test.

Offered: Fall, Spring

MUSE 560 - Student Teaching Seminar in Music Education (2)

Teacher behaviors appropriate to effective teaching are developed. Topics include classroom and time management, effective communication, learning styles, and teaching strategies. This seminar meets weekly.

Prerequisite: Graduate status, concurrent enrollment in MUSE 526.

Offered: Fall, Spring

MUSE 566 - Seminar in Music Education (3)

Selected problems are investigated.

Prerequisite: Graduate status and consent of instructor.

Offered: Fall (odd years).

MUSE 592 - Graduate Thesis (3)

A formal research problem is investigated by the student. An advisor from the Department of Music, Theatre, and Dance is assigned to the student.

Prerequisite: Graduate status and consent of departmental graduate committee.

Offered: As needed.

# NPST - Nonprofit Studies

NPST 300 - Institute in Nonprofit Studies (4)

Students participate in an introductory course to develop skills and competencies appropriate to careers in nonprofit organizations. Course topics include nonprofit organization structure, leadership, strategic planning, budgeting, human resources, fundraising, philanthropy, and legal principles. Hybrid course.

Prerequisite: Successful completion of 42 credits; FNED 246 or SWRK 200.

Offered: Fall.

NPST 301 - Financial Management for Nonprofits (3)

This course presents basic information about budgeting and financial management systems in nonprofit organizations, including the alignment between budgets, reporting, and organizational mission. Hybrid course.

Prerequisite: NPST 300 or consent of the director of the Certificate Program in Nonprofit Studies.

Offered: Spring.

NPST 402 - Staff and Volunteer Management for Nonprofits (3)

Students will develop knowledge and skills in areas of human capital management systems, processes, and philosophies that ensure nonprofit organizational success. Hybrid course.

Prerequisite: NPST 300 or consent of the director of the Certificate Program in Nonprofit Studies.

Offered: Fall.

NPST 404 - Communications and Resource Development for Nonprofits (3)

Students will develop knowledge and skills in areas of communication, marketing and public relations strategies, philanthropy, preparing grant proposals, and other fund development efforts. Hybrid course.

Prerequisite: NPST 300 or consent of the director of the Certificate Program in Nonprofit Studies.

Offered: Spring.

NPST 500 - Advanced Leadership Institute in Nonprofit Studies (3)

This course focuses on the origins and composition of the nonprofit sector, operational issues in management, and development of strategic solutions to manage and move the sector forward.

Prerequisite: Graduate status and consent of the director of the certificate program in nonprofit studies.

Offered: Summer.

NPST 635 - Advanced Grant Development and Fundraising (3)

This course provides an overview of the grants process and fundraising. Emphasis on developing competitive proposals, budgets, systems of administration, and innovative strategies for cultivation of stakeholder support.

Prerequisite: Graduate status and NPST 500 or consent of the director of the certificate program in nonprofit studies.

Offered: Spring.

# NMT - Nuclear Medicine Technology

NMT 231 - Clinical Observation (3.5)

The clinical practice of nuclear medicine is introduced, with emphasis on hospital policies and procedures, radiation safety, and patient care. Practical experience is given in observing and applying health care principles. 10.5 contact hours.

Prerequisite: MEDI 201 or RADT 201, and acceptance into the medical imaging with concentration in nuclear medicine technology program.

Offered: Spring.

NMT 301 - Introduction to Nuclear Medicine Technology (3)

This is an introduction to the science and practice of nuclear medicine technology. Topics include the organization of diagnostic departments and the responsibilities of the professional nuclear medicine technologist.

Prerequisite: MEDI 201 or RADT 201, and acceptance into the medical imaging with concentration in nuclear medicine technology program.

Offered: Spring.

NMT 302 - Foundations of Nuclear Medicine Technology (3)

Students learn a variety of Nuclear Medicine topics, including math, clinical procedures, introduction to instrumentation and venipuncture.

Prerequisite: Acceptance into a Medical Imaging Clinical program.

Offered: Spring.

NMT 303 - Nuclear Medicine Procedures I (3)

Students are provided with with an understanding of nuclear medicine and molecular imaging procedures, including appropriate protocol selection, instrumentation, basic pathology, patient care skills, and interpretation of images.

Prerequisite: Acceptance into a Medical Imaging Clinical program.

Offered: Spring.

NMT 304 - Radiation Safety and Radiobiology (3)

Students will learn concepts and physical principles that govern radioactivity and interactions of ionizing radiation with matter, principles and applications of radiation safety and protection.

Prerequisite: Acceptance into a Medical Imaging Clinical program.

Offered: Spring.

NMT 306 - Nuclear Medicine Procedures II and Therapeutics (3)

Students are provided with an understanding of nuclear medicine and molecular imaging procedures and therapeutics. Content covered includes protocol selection, instrumentation, pathology, patient care skills, and interpretation of images.

Prerequisite: NMT 303.

Offered: Summer.

NMT 311 - Radiation Safety (1)

This course covers principles and applications of radiation safety and protection. Specific topics include personal monitoring, regulations, waste disposal and radiotherapy.

Prerequisite: MEDI 201 or RADT 201, and acceptance into the medical imaging program with concentration in nuclear medicine technology program.

Offered: Spring.

NMT 321 - Diagnostic Nuclear Medicine Procedures I (3)

Topics covered are anatomy and physiology, pathophysiology, radiopharmacy, imaging techniques and the interpretation of images. The course is taught using an integrated systems approach as applied to nuclear medicine.

Prerequisite: MEDI 201 or RADT 201, and acceptance into the medical imaging with concentration in nuclear medicine technology program.

Offered: Spring.

NMT 325 - Radiation Physics (1)

This course covers concepts and physical principles that govern radioactivity and interactions of ionizing radiation with matter. Students will learn the law of radioactive decay and biological effects of radiation.

Prerequisite: NMT 301.

Offered: Summer.

NMT 332 - Clinical Diagnostic Procedures I (8)

Students learn the skills required to achieve clinical competencies in a variety of nuclear medicine procedures. Emphasis is on the integration of clinical and didactic education. 24 contact hours.

Prerequisite: RADT 201 and acceptance into the medical imaging with concentration in nuclear medicine technology.

Offered: Summer.

NMT 336 - Clinical Education I (3)

Students are introduced to clinical practice of nuclear medicine with emphasis on departmental policies and procedures, radiation safety and patientcare.  Offers practical experience observing and applying health care principles. 18 contact hours.

Prerequisite: Acceptance into a Medical Imaging clinical program.

Offered: Spring.

NMT 337 - Clinical Education II (5)

Placed under direct and indirect supervision, students will learn clinical skills through observation and participation in NMT procedures. Emphasis is placed on the integration of clinical and didactic education. 30 contact hours.

Prerequisite: NMT 336.

Offered: Summer.

NMT 402 - Instrumentation and Radiobiology (1.5)

The principles of operation and quality control are defined for all nonimaging and imaging instruments in nuclear medicine.

Prerequisite: NMT 311.

Offered: Fall.

NMT 405 - Radiopharmacy (1)

The theory and practice of radiopharmacy and radiochemistry are defined and discussed, including preparation, calculation of doses, quality control, radiation safety, and applicable regulations.

Prerequisite: NMT 301.

Offered: Summer.

NMT 421 - Diagnostic Nuclear Medicine Procedures II (3)

This is a continuation of NMT 321.

Prerequisite: NMT 321.

Offered: Summer.

NMT 425 - Diagnostic Nuclear Medicine Procedures III (3)

This is a continuation of NMT 421.

Prerequisite: NMT 421.

Offered: Fall.

NMT 430 - Registry Review (2)

Students prepare for the national certification exam offered by the Nuclear Medicine Technology Certification Board.

Prerequisite: NMT 311.

Offered: Spring.

NMT 431 - Clinical Diagnostic Procedures II (8)

This is a continuation of NMT 332. 24 contact hours.

Prerequisite: NMT 331.

Offered: Fall.

NMT 432 - Clinical Diagnostic Procedures III (6)

This course is a continuation of NMT 431. 18 contact hours.

Prerequisite: NMT 431.

Offered: Spring.

NMT 433 - Radiopharmaceuticals in Nuclear Medicine ()

Students will explore the theory and practice of radiopharmacy and radiochemistry, including preparation, calculation of doses, quality control, radiation safety and applicable regulations.

Offered: Fall

NMT 434 - Radiation Physics and Advanced Instrumentation ()

Students learn design, operation, and quality control of different detectors used in nuclear medicine. Concepts and physical principles that govern radioactivity and interactions of ionizing radiation with matter.

Offered: Fall

NMT 435 - Registry Review ()

Students are asked to make connections between the introductory lectures and clinical practice.  This course prepares students for the national certification exams.

Offered: Spring

NMT 436 - Clinical Education III ()

Students, under supervision, clinical skills through observation and participation in Nuclear Medicine procedures. Emphasis is placed on the integration of clinical and didactic education leading to proficiency. 30 contact hours.

Offered: Fall

NMT 437 - Clinical Education IV ()

Students learn, under supervision, clinical skills through observation and participation in Nuclear Medicine procedures. Emphasis is placed on the integration of clinical and didactic education leading to proficiency. 24 contact hours

Offered: Spring

# NURS - Nursing

NURS 101 - The Nursing Education Experience I (1)

Topics promoting success in the nursing program are covered, including issues in the learning and practice of nursing, study skills, personal growth, and involvement in the college and department.

Prerequisite: COLL 101 and consent of department chair.

Offered: Spring.

NURS 102 - The Nursing Education Experience II (1)

Students examine the social, cultural, and economic contexts of nursing through readings, discussion, guest lecturers, field trips, and participation in college activities.

Prerequisite: NURS 101 and consent of department chair.

Offered: Fall.

NURS 175 - Nursing Drug Calculations (1)

Using dimensional analysis, students learn how to calculate drug dosages. (For nursing majors only.)

Offered: Fall, Spring.

NURS 207 - Baccalaureate Education for Nursing (4)

This is the formal transition for the RN student into the baccalaureate program in nursing. Emphasis is on the nursing process as the scientific methodology for nursing practice.

Prerequisite: Licensed R.N. students and Nursing RN-BSN IM, or consent of the program director.

Offered: Fall, Spring.

NURS 220 - Foundations of Therapeutic Interventions (3)

Concepts of nutrition, pharmacology, and pathophysiology are introduced as foundations for therapeutic intervention in nursing practice.

Prerequisite: BIOL 231, CHEM 106, PSYC 230, prior or concurrent enrollment in BIOL 335, and acceptance to the nursing program.

Offered: Fall, Spring.

NURS 222 - Professional Nursing I (3)

The profession of nursing is introduced, including the history and practice of nursing, the health illness continuum, the health care system, the nursing process, and the demographic and economic changes that affect nursing practice.

Prerequisite: BIOL 231, CHEM 106, PSYC 230, prior or concurrent enrollment in BIOL 335, and acceptance to the nursing program.

Offered: Fall, Spring.

NURS 223 - Fundamentals of Nursing Practice (4)

Cognitive and psychomotor skills are applied through guided experiences in simulated and clinical situations. Emphasis is on skills essential for the nursing practice.

Prerequisite: NURS 220, NURS 222, NURS 225 or NURS 225W; concurrent enrollment in NURS 224; and prior or concurrent enrollment in BIOL 348.

Offered: Fall, Spring.

NURS 224 - Health Assessment (3)

Basic health assessment skills are introduced. Emphasis is on normal findings.

Prerequisite: NURS 220, NURS 222, NURS 225 or NURS 225W; concurrent enrollment in NURS 223; and prior or concurrent enrollment in BIOL 348.

Offered: Fall, Spring.

NURS 225W - Introduction to Writing and Research in Nursing (2)

Students are introduced to the conventions of writing in nursing and the role of research in evidence-based nursing practice. This is a Writing in the Discipline (WID) course.

Prerequisite: Acceptance to the nursing program.

Offered: Fall, Spring.

NURS 262 - Substance Abuse as a Global Issue (4)

The global issue of substance abuse is analyzed through the lens of from multicultural factors influencing human behavior. Students explore concepts related to dynamic processes operating when substances are abused.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall.

NURS 264 - Status of the World's Children (4)

The impact of cultural identity and heritage of children around the world is analyzed. Global issues of child exploitation and the global effort to halt that exploitation are examined.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

NURS 266 - Health and Cultural Diversity (4)

Health beliefs and practices are examined across cultures. Focus is on the cultural components of health and illness, pain, childbearing, child health, mental illness, disability, aging and death.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

NURS 314 - Health and Aging (4)

An interdisciplinary approach is taken to the health/mental health of older adults. Normal aging is compared to disease/disorders. Students cannot receive credit for both GRTL 314 and NURS 314.

Prerequisite: Completion of at least 45 credit hours.

Offered: Fall, Spring, Summer.

NURS 316 - Physical Assessment of the Adult and Child (4)

Diagnostic skills are used to assess clients of all age groups. Assessment of health and developmental status is done through interview, inspection, palpation, percussion, and auscultation.

Prerequisite: Acceptance to the RN-BSN Program; completion of NURS 207 and NURS 225 or NURS 225W.

Offered: Spring.

NURS 340 - Psychiatric/Mental Health Nursing (6)

Psychiatric/mental health theory, practice, and the professional role are introduced, with emphasis on the adult client. Common psychiatric disorders across the lifespan are included. 12 contact hours.

Prerequisite: NURS 220, NURS 222, NURS 223, NURS 224 and NURS 225 or NURS 225W.

Offered: Fall, Spring.

NURS 342 - Adult Health Nursing I (6)

Focus is on the promotion of health and the management of illness in the adult client. Students learn to manage client care in various settings and to develop professional behaviors through learning activities and practice situations. 12 contact hours.

Prerequisite: NURS 220, NURS 222, NURS 223, NURS 224, NURS 225 or NURS 225W, and NURS 340.

Offered: Fall, Spring.

NURS 344 - Maternal Newborn Nursing (6)

Nursing theory and application are introduced in the practicum setting, with focus on the comprehensive and continuing care of expectant and newly expanded family systems. 12 contact hours.

Prerequisite: NURS 220, NURS 222, NURS 223, NURS 224 and NURS 225 or NURS 225W.

Offered: Fall, Spring.

NURS 346 - Nursing of Children and Families (6)

The nursing care of children is examined within the context of the individual, family, and community. Principles of growth and development, health promotion, and therapeutic interventions are analyzed and applied. 12 contact hours.

Prerequisite: NURS 220, NURS 222, NURS 223, NURS 224, NURS 225 or NURS 225W, and NURS 344.

Offered: Fall, Spring.

NURS 370 - Public and Community Health Nursing (6)

Principles of public health and nursing are synthesized and applied to the care of families and populations in theory and in practice. Ethnographic, epidemiological, and public policy approaches are used to understand public health issues. 12 contact hours.

Prerequisite: Prerequisite for general students: NURS 340, NURS 342, NURS 344, NURS 346. Prerequisite for licensed R.N. students: acceptance by School of Nursing for senior level.

Offered: Fall, Spring.

NURS 372 - Adult Health Nursing II (6)

Focus continues on the promotion of health and the management of illness in adult clients. Students expand their knowledge and nursing practice in various settings. Professional behaviors are also developed. 12 contact hours.

Prerequisite: NURS 340, NURS 342, NURS 344, NURS 346.

Offered: Fall, Spring.

NURS 374 - Contemporary Professional Nursing (3)

Major topics pertinent to professional development and practice are analyzed in depth. Leadership and management theories, contemporary nursing issues, and factors facilitating professional achievements are also presented.

Prerequisite: NURS 340, NURS 342, NURS 344, NURS 346.

Offered: Fall, Spring.

NURS 375 - Transition to Professional Nursing Practice (6)

Professional values, roles, and issues, as well as client population-focused issues are discussed in seminar and applied in practicum. Students select a clinical setting in which the transition from student to professional nurse is fostered. 12 contact hours.

Prerequisite: NURS 372 and NURS 374.

Offered: Fall, Spring.

NURS 376 - Contemporary Nursing Practices: Issues and Challenges (6)

Professional values, roles, and issues pertinent to the contemporary health care environment are examined. 12 contact hours.

Prerequisite: RN-BSN student; completion of NURS 370 or consent of the program director.

Offered: Fall, Spring.

NURS 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

NURS 391 - Independent Study in Nursing (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. This course may be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Consent of instructor, department chair and dean.

Offered: Fall, Spring.

NURS 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean, and admission to the nursing honors program.

Offered: As needed.

NURS 492 - Independent Study II (3)

This course continues the development of research or activity begun in NURS 491. For departmental honors, the project requires final assessment form the department.

Prerequisite: NURS 491, and consent of instructor, department chair and dean.

Offered: As needed.

NURS 501 - Research Methods for Advanced Nursing Practice (3)

Overview of research methods which are used for clinical inquiry in nursing practice. Focus is on the formulation of a question that can be developed into a clinical inquiry project.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Fall, Summer.

NURS 502 - Health Care Systems (3)

Topics covered are organizational structure, resources, current technology, informational systems, outcome measures, safety initiatives, health care policy, and ethics. The central role of the patient in health care decision making is also examined.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Cross-Listed as: HCA 502

Offered: Fall, Spring.

NURS 503 - Professional Role Development (3)

Behaviors that promote change and collaboration in practice environments are examined, including concepts of leadership, communication, power, and problem solving.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Spring, Summer.

NURS 504 - Advanced Pathophysiology (3)

Students explore the interrelationships of human systems and the effects of illness on the individual as a whole. Concepts and patterns of alterations in physiological mechanisms and functions are identified.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Fall, Spring.

NURS 505 - Advanced Pharmacology (3)

Pharmacologic agents and their clinical applications are examined. Pharmacologics, therapeutic uses, and the side effects and drug interactions of a broad variety of classes of drugs are explored as treatment modalities.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Fall, Spring.

NURS 506 - Advanced Health Assessment (3)

This course assists the learner in the acquisition of advanced health assessment skills. The status of clients is determined by using the health history interview and advanced diagnostic skills. 5 contact hours.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Fall.

NURS 508 - Public Health Science (3)

Study is made of environmental and occupational health, bioterrorism and disaster preparedness, communicable diseases, chronic diseases, and vulnerable populations.

Prerequisite: Graduate status in nursing or consent of M.S.N. graduate program director.

Offered: Fall.

NURS 509 - Evidence Based Practice for Advanced Nursing Seminar I (3)

This course focuses on developing skills for the effective translation of evidence into practice in the students intended advanced nursing practice role necessary to optimize health outcomes.

Prerequisite: NURS 501, NURS 502, NURS 503, and graduate status in nursing.

Offered: Fall, Spring.

NURS 511 - Population/Public Health Nursing (6)

Variables relevant to public health problems are investigated through field experience. Students demonstrate knowledge of analytic assessment and public health science skills. 15 contact hours.

Prerequisite: Graduate status, NURS 508; and prior or concurrent enrollment in HPE 507, NURS 501, NURS 502 and NURS 503.

Offered: Spring.

NURS 512 - Genetics and Genomics in Health Care (3)

The scientific, ethical, legal, social, technological, and policy implications of genetics and genomics are explored, with application to interdisciplinary health care professionals.

Prerequisite: Graduate status in nursing or consent of program director.

Offered: Fall, Summer.

NURS 513 - Teaching Nursing (3)

This elective course introduces students to the knowledge, skills, and attitudes required of a nurse educator. Through classroom and clinically oriented learning activities, students gain basic competencies.

Prerequisite: Graduate status.

Offered: Summer Session I.

NURS 514 - Advanced Pharmacology for Nurse Anesthesia (4)

This course builds upon the foundation established in NURS 505, foundational concepts of biochemistry are explored and pharmacologic agents for anesthesia practice are examined.

Prerequisite: Graduate status, NURS 505 and BIOL 535.

Offered: Spring.

NURS 515 - Simulation in Interprofessional Healthcare Education (3)

Students learn simulation theory, models, evidence-based practice, and safety as a framework for using simulation in practice and education. Groups of nursing, social work and health education students develop, implement and revise a simulation in this course.

Prerequisite: Graduate student in nursing, social work or health education, or consent of instructor.

Offered: Spring.

NURS 516 - Advanced Principles of Nurse Anesthesia Practice I (3)

Advanced principles of anesthesia administration and management, including general and regional techniques for surgery are examined.

Prerequisite: Graduate status, NURS 514 and NURS 515.

Offered: Summer.

NURS 517 - Foundational Principles of Nurse Anesthesia (3)

The history and scope of nurse anesthesia practice, physics as applied to anesthesia administration and practice, anesthesia equipment, preoperative evaluation and basic management are examined.

Prerequisite: Graduate status, NURS 505, NURS 506 and NURS 504 prerequisite or concurrent.

Offered: Spring.

NURS 518 - Nursing Care/Case Management (3)

Students examine evidence-based approaches to the coordination of services for populations across health care systems to enhance client-centered, interdisciplinary care, outcomes based quality improvement and cost containment.

Prerequisite: Graduate status in nursing or consent of program director.

Offered: Fall.

NURS 519 - Quality/Safety in Advanced Practice Nursing (3)

Student develop advanced practice nurse competencies specific to quality and safety measurement and management in nursing.

Prerequisite: M.S.N. program enrollment or approval of program director.

Offered: Fall.

NURS 521 - Global Health and Advanced Practice Nursing (3)

Students explore concepts of global health and examine the impact of disease burden on global populations through lecture, readings and immersion. The clinical international learning experience involves collaboration with an intra-professional team at an international village clinical.

Prerequisite: NURS 501, NURS 502, NURS 503

Offered: Spring, Summer.

NURS 522 - Concepts and Practice of Palliative Care (3)

Students develop advanced practice nurse competencies in the specialty of palliative care to be applied to adults, older adults and families dealing with a life threatening illness.

Prerequisite: M.S.N. program enrollment or approval of M.S.N. program director.

Offered: Annually.

NURS 523 - Surgical First Assist Theory (3)

The course will provide the foundation of knowledge necessary for the APRN to assume and function safely in the role of the first assistant during operative and other invasive procedures.

Prerequisite: M.S.N. program enrollment and prior completion of NURS 506, NURS 510, NURS 530/NURS 540 and concurrent enrollment in NURS 610; or permission of the M.S.N. program director.

Offered: Fall.

NURS 524 - Healthcare Statistics (3)

Statistical concepts of sampling, levels of measurement, inferential statistical tests, regression, and nonparametric methods are studied. Emphasis is on application of statistics in nursing research reports.

Prerequisite: Graduate status or DNP Director approval.

Offered: Summer Session I

NURS 525 - Surgical First Assist Practicum (3)

Students develop competence in operative and invasive procedures. Emphasis is on direct surgical patient care experiences, which facilitates accomplishment of course outcomes, identified competencies, and individual student objectives.

Prerequisite: NURS 523

Offered: Spring.

NURS 530 - Adult Health Illness I for CNS (6)

Students develop knowledge of the Synergy Model required for the clinical nurse specialist practice. Model assumptions, development, and applicability to C.N.S. practice are discussed, analyzed, and applied. 15 contact hours.

Prerequisite: Graduate status, NURS 501, NURS 502, NURS 503, NURS 504, NURS 505, NURS 506.

Offered: Spring.

NURS 540 - Adult Health Illness I for NPs (6)

Students develop advanced practice nurse competencies specific to caring for adults and older adults. The focus is on developing skills and patient centered diagnostic reasoning and differential diagnosis. 15 contact hours.

Prerequisite: Graduate status, NURS 505 and NURS 506; and prior or concurrent enrollment in NURS 501, NURS 502, NURS 503, NURS 504.

Offered: Spring.

NURS 550 - Surgical First Assist Practicum (3)

Students develop competence in operative and invasive procedures. Emphasis is on direct surgical patient care experiences, which facilitates accomplishment of course outcomes, identified competencies, and individual student objectives.

Prerequisite: NURS 523.

NURS 570 - Nurse Anesthesia Clinical Practicum I (1)

Introduction to basic anesthesia skills and techniques for the novice with emphasis on airway management under direct supervision of clinical preceptors.

Prerequisite: Graduate status, NURS 501, NURS 502, NURS 503, NURS 517; NURS 516 concurrent.

Offered: Summer.

NURS 610 - Adult Health/Illness II for CNS (6)

Students develop advanced practice nurse competencies specific to caring for adults with select acute health alterations. Emphasis is on the nursing/nursing practice sphere. 15 contact hours.

Prerequisite: Graduate status, NURS 510 and NURS 530 or NURS 540.

Offered: Fall.

NURS 611 - Population/Public Health Nursing II (6)

Students collaborate with community groups to assess health needs, develop partnerships, and plan programs to address needs based on cultural sensitivity. Public policy solutions to those needs are proposed. 15 contact hours.

Prerequisite: Graduate status and NURS 511.

Offered: Fall.

NURS 615 - Adult Health/Illness II for NPs (6)

Students develop advanced practice nurse competencies specific to caring for adults with select acute health alterations. Emphasis is on the nursing/nursing practice sphere. 15 contact hours.

Prerequisite: Graduate status, NURS 510 and NURS 540.

Offered: Fall.

NURS 616 - Advanced Principles of Nurse Anesthesia Practice II (3)

Advanced principles of anesthesia administration and management for cardiac, thoracic and neurological surgeries are examined.

Prerequisite: Graduate status and NURS 516.

Offered: Fall.

NURS 620 - Adult Health/Illness III for CNS (6)

Students develop advanced practice nurse competencies specific to caring for adults with select acute health alterations. Emphasis is on the systems/organizational sphere. 15 contact hours.

Prerequisite: Graduate status and NURS 610.

Offered: Spring.

NURS 621 - Population/Public Health Nursing III (6)

Students engage in public policy and program planning with existing health systems. Focus includes budget development, oversight, and the use of management information systems for decision making. 15 contact hours.

Prerequisite: Graduate status and NURS 611.

Offered: Spring.

NURS 622 - Evidence Based Practice for Advanced Nursing Seminar II (3)

The course focuses on the development of an evidence-based practice project relevant to the students intended specialty (i.e. quality improvement proposal, clinical guideline, program development, policy evaluation.)

Prerequisite: Graduate Status and NURS 509.

Offered: Fall, Spring.

NURS 625 - Adult Health/Illness III for NPs (6)

Students develop advanced practice nurse competencies specific to caring for adults with select acute health alterations. Emphasis is on the systems/organizational sphere. 15 contact hours.

Prerequisite: Graduate status and NURS 615.

Offered: Spring.

NURS 626 - Advanced Principles in Nurse Anesthesia III (3)

Advanced principles of anesthesia and management of endocrine, liver, neuromuscular, and burn surgeries, and surgery in obesity, with chronic pain and in remote settings, are examined.

Prerequisite: Graduate status and NURS 616.

Offered: Spring.

NURS 630 - Nurse Anesthesia Clinical Practicum II (1)

Application of theory and development of skills for the advanced beginner under the close supervision of clinical preceptors.

Prerequisite: Graduate status and NURS 570; NURS 616 concurrent.

Offered: Fall.

NURS 636 - Transition into Nurse Anesthesia Practice (2)

Topics for entry into professional practice are examined and explored.

Prerequisite: Graduate status and NURS 670; NURS 690 concurrent.

Offered: Fall.

NURS 640 - Nurse Anesthesia Clinical Practicum III (1)

The competent student will continue to apply advanced principles and improve skills under the guidance of clinical preceptors.

Prerequisite: Graduate status and NURS 630; NURS 626 concurrent.

Offered: Spring.

NURS 670 - Nurse Anesthesia Clinical Practicum IV (1)

The proficient student will expand and enhance knowledge and skills with minimal direct guidance of clinical preceptors.

Prerequisite: Graduate status and NURS 640.

Offered: Summer.

NURS 691 - Nurse Anesthesia Clinical Practicum V (1)

The novice practitioner will prepare to transition from the student role with consultation and minimal guidance of clinical preceptors.

Prerequisite: Graduate status and NURS 670; NURS 636 concurrent.

Offered: Fall.

NURS 692 - Directed Readings I (1)

Under the direction of the faculty first reader, students finalize the Master’s project proposal and begin to implement the project.

Offered: Fall, Spring, Summer.

NURS 693 - Directed Readings II (1)

Under the direction of the faculty first reader, students complete the Master’s major project, the project write-up and project presentation.

Offered: Fall, Spring, Summer.

NURS 701 - Scientific Underpinnings for Clinical Scholarship (3)

Theoretical knowledge from nursing and related disciplines is explored. Emphasis is placed on integration and application of scientific knowledge to clinical practice and to practice scholarship.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Fall.

NURS 702 - Systems Leadership/Quality Improvement (3)

Core concepts of organizational and systems leadership and quality improvement are explored, with emphasis on application to diverse clinical practice settings.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Fall, SSI.

NURS 703 - Advanced Epidemiology and Biostatistics (3)

Epidemiological principles and methods are presented and applied to clinical and population-based health. Epidemiological, biostatistical, and other scientific approaches are used to analyze population data.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Fall.

NURS 704 - Clinical Research/Analytic Methods (3)

Methodological concepts and principles required for evidence-based clinical practice are examined. Emphasis is placed on analysis and application of research findings to clinical practice.

Prerequisite: Graduate status.

Offered: Spring.

NURS 705 - Health Care Policy and Advocacy (3)

Frameworks for developing and analyzing health policy issues are presented and discussed in the context of prominent health policy debates. Analytic skills will be applied to examine health policy issues.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Spring.

NURS 706 - Economics, Finance, Business Management (3)

Advanced economic, financial, and business knowledge and skills required to assume a D.N.P. leadership role are investigated. Emphasis is placed on application of knowledge to diverse healthcare settings and systems.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Spring.

NURS 707 - Information Technology/Decision Support (3)

The intersection of informatics, computer science, cognitive science and nursing science are explored. Current issues, evaluation of information technology, and application to practice are emphasized.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Fall.

NURS 708 - Interprofessional Collaborative Practice (3)

Core concepts of inter-professional collaborative practice are explored. Contemporary issues and strategies to promote inter-professional collaboration are examined.

Prerequisite: D.N.P. program matriculation or consent of program director.

Offered: Fall, SSII.

NURS 709 - Population Health (3)

Population-based approaches and initiatives to improve population-focused health care are presented, analyzed, and evaluated. Assessment, implementation, and evaluation of evidence based interventions will be emphasized.

Prerequisite: Graduate status and NURS 703 prerequisite or concurrent.

Offered: Fall.

NURS 720 - D.N.P. Project Planning (1)

The focus of this course is on D.N.P. project mapping and the proposal development process.

Prerequisite: Graduate status and NURS 701, NURS 702, NURS 703, NURS 704

Offered: Spring.

NURS 730 - D.N.P. Proposal Development (3)

Students develop the D.N.P. project proposal.

Prerequisite: Graduate status and NURS 720.

Offered: Summer.

NURS 740 - D.N.P. Project Implementation (2)

Students implement the D.N.P. project in consultation with their D.N.P. project advisor. Emphasis will be placed on data collection and analysis procedures.

Prerequisite: Graduate status and NURS 730.

Offered: Fall.

NURS 750 - D.N.P. Project Evaluation and Dissemination (1)

Students evaluate project findings and prepare the final written paper in consultation with D.N.P. project advisor. Project findings are defended at a  culminating oral presentation.

Prerequisite: Graduate status and NURS 740.

Offered: Spring.

NURS 791 - Directed Readings I (1)

Students develop a statement of the problem, purpose statement and project framework through intensive readings as they begin preparation of the D.N.P. project proposal. Graded S/U.

Prerequisite: D.N.P. matriculation

Offered: Spring.

NURS 792 - Directed Readings II (1)

Students complete the preliminary literature review through intensive readings and draft their project method as they continue to prepare the D.N.P. project proposal. Graded S/U.

Prerequisite: D.N.P. matriculation

Offered: Fall.

# PFA - Performing Arts

PFA 461W - Senior Seminar (3)

Senior candidates for the B.A. in music complete a project appropriate to their interests and field within the performing arts. This project includes a written component and possibly a performance element. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior standing in the B.A. in music program.

Offered: Spring.

# PHIL - Philosophy

PHIL 200 - Introduction to Philosophy (3)

Basic philosophic issues, such as the existence of God, free will, minds, the nature of reality, knowledge, and truth, are examined. Emphasis is on reasoning and justification.

Offered: Fall, Spring.

PHIL 205W - Introduction to Logic (4)

This course covers principles of valid reasoning. Formal methods of propositional and quantificational logic are introduced to evaluate the validity of reasoning in arguments. This is a Writing in the Discipline (WID) course.

Offered: Fall, Spring.

PHIL 206 - Ethics (3)

An examination and explanation of ethical judgments are made. Clarification and analysis of ethical terms and the validity of norms of conduct from the standpoint of formalistic, intuitional, hedonistic, and naturalistic ethical theories are considered.

Offered: Fall, Spring, Summer.

PHIL 207 - Technology and the Future of Humanity (3)

Philosophical issues concerning recent and near term technological advances. Topics may include uploading personhood, robot consciousness, machine life or death decision making, human enhancement and life extension, or simulated violence.

Offered: Fall, Spring.

PHIL 208 - Introduction to Theories of Justice (4)

Students explore philosophical approaches to balancing individual liberties and the general welfare, comparing ethical foundations and social implications of various theories of justice, such as utilitarian, libertarian and contractarian.

Offered: Fall, Spring.

PHIL 220 - Logic and Probability in Scientific Reasoning (4)

Natural and social sciences require probabilistic reasoning, with special logical features. This course studies general principles of logic, special principles of probabilistic reasoning, their scientific applications, and common probabilistic fallacies.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Completion of any Mathematics or Natural Science general education distribution.

Offered: Fall, Spring.

PHIL 230 - Aesthetics (4)

This course examines issues in the philosophy of art, such as: the nature of art, art and emotion, artistic intentions, aesthetic value, art and knowledge, and art and morality.

General Education Category: Arts - Visual and Performing.

Offered: Fall, Spring, Summer.

PHIL 261 - Philosophy of Health and Well-Being (4)

Connections across traditional practices and recent developments concerning human health through philosophical concepts of health and well-being, plus ethical principles such as welfare, autonomy, and justice.This is a critical inquiry into ethical issues in health care. Moral theories from both Western and non-Western traditions are discussed and applied to issues in health care.

General Education Category: Connections

Prerequisite: Connections courses may not be used as part of a major or minor. FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

PHIL 262 - Freedom and Responsibility (4)

This class examines the nature of free will. What is it? Is it necessary for moral responsibility? Do we have it? And if not, what should we do about it?

General Education Category: Connections.

Prerequisite: Connections courses may not be used as part of a major or minor. FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

PHIL 263 - The Idea of God (4)

Concepts of Divinity are critically examined. Issues include polytheism, monotheism, atheism, gender and the God(ess). Students are challenged to critically examine their own ideas through various philosophical and religious traditions.

General Education Category: Connections.

Prerequisite: Connections courses may not be used as part of a major or minor. FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

PHIL 265 - Philosophical Issues of Gender and Sex (4)

Philosophical questions concerning the concepts of sex and gender are explored. Readings will be drawn from philosophical texts and from a number of related disciplines.

General Education Category: Connections.

Prerequisite: Connections courses may not be used as part of a major or minor. FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

PHIL 266 - Asian Philosophies: Theory and Practice (4)

Study of philosophical themes and practical implications (personal and communal) in Asian cultures. Issues include concepts of life and death, origins and nature of reality, and standards of ethical relations.

General Education Category: Connections.

Prerequisite: Connections courses may not be used as part of a major or minor. FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

PHIL 305W - Intermediate Logic (4)

This course covers some extensions of elementary logic with applications. Topics may include propositional modal logic, quantified modal logic, inductive logic, and meta-logic. This is a Writing in the Discipline (WID) course.

Prerequisite: 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring (even years).

PHIL 306 - Contemporary Ethical Theory (3)

Theories about the nature and possibility of ethics are discussed. Topics may include relativism, egoism, intuitionism, moral realism, the nature of the moral person, moral development, feminist ethics, and the significance of evolution.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall.

PHIL 311 - Knowledge and Truth (3)

The concept of knowledge and its relationship to the world of experience is investigated. Various theories of the nature of truth are presented and analyzed. Students are introduced to epistemology.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring (even years).

PHIL 315 - Evidence, Reasoning, and Proof (3)

The concept of evidence, types of reasoning, and standards of proof are examined. Topics include types of evidence, evaluating evidence, eyewitness claims, expert testimony and memory, appraising reasoning, and standards of proof.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Annually.

PHIL 320 - Philosophy of Science (3)

Induction and probability, causality and the laws of nature, as well as the nature of explanation and justification, are covered.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring (odd years).

PHIL 321 - Social and Political Philosophy (3)

Students examine social and political theories and the philosophical issues they raise concerning the origin of society and man's nature as a "political being" and "social being."

Prerequisite: Completion of 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall, Spring.

PHIL 322 - Philosophy of Law (3)

Conceptual problems regarding law and legal systems are examined. Topics may include the nature of law, law and morality, civil disobedience, positivism, naturalism, personhood under the law, rights, punishment, and criminal responsibility.

Prerequisite: Completion of 30 college credits or any 100- or 200-level philosophy course.

Offered: Annually.

PHIL 325 - Environmental Ethics (3)

Theories and reality, ideology and action, and values and facts are examined. Focus is on rational policy decision making.

Prerequisite: Completion of 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring.

PHIL 330 - Metaphysics (3)

This is a problem-oriented introduction to some of the central issues of contemporary metaphysics. Topics may include ontology (what exists), necessity, causation, free will/determinism, space and time, and identity-over-time.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall (even years).

PHIL 333 - Philosophy of Mind (3)

The status and role of mind in relation to body is studied. Diverse theories, such as mind/body dualism, identity theory, behaviorism, functionalism, and emergence, are discussed.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall (odd years).

PHIL 351W - Plato, Aristotle, and Greek Philosophy (4)

The origins of philosophy in Greek thought are explored. Works of philosophers such as Plato and Aristotle are read. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall.

PHIL 354 - Continental Philosophy ()

Students will study major movements and figures in the continental tradition of philosophy.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall.

PHIL 356W - Descartes, Hume, Kant and Modern Philosophy (4)

Works from European philosophers from Descartes to Kant are read. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring.

PHIL 357 - Hegel, Nietzsche and Nineteenth-Century Philosophy (3)

Selections from the works of Hegel and Nietzsche are analyzed and critiqued along with other nineteenth-century philosophers, such as Kierkegaard, Schopenhauer, Marx, and Freud.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall (even years).

PHIL 358 - Existentialism and Phenomenological Philosophy (3)

The main themes of existentialist philosophy and its successors are investigated through the study of such authors as Kierkegaard, Heidegger, Sartre, and Camus.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring (odd years).

PHIL 359 - Frege, Russell, Wittgenstein and Analytic Philosophy (3)

Late nineteenth- and twentieth-century philosophers of language, such as Frege, Russell, Moore, Wittgenstein, Austin, Quine, and Kripke, are studied.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall (odd years).

PHIL 390 - Directed Study (3-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PHIL 460W - Seminar in Philosophy (4)

Intensive study of a specific topic or author, including a term paper that engages recent scholarship and follows disciplinary conventions. May be repeated for credit with a change in topic. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 60 college credits and any 300-level philosophy course, or consent of the department chair.

Offered: Annually.

PHIL 479 - Philosophy Internship (1-4)

Students experience the environment of institutions and firms where the work demand includes a substantial philosophical dimension.

Prerequisite: Open to philosophy majors who have completed at least 60 credit hours of undergraduate courses, 18 of which are philosophy courses, with consent of department chair.

Offered: Summer as needed.

PHIL 490 - Independent Study in Philosophy (1-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. May be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PHIL 491 - Independent Study I (3-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean, and admission to the philosophy honors program.

Offered: As needed.

PHIL 492 - Independent Study II (3-4)

This course continues the development of research or activity begun in PHIL 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: PHIL 491 and consent of instructor, department chair and dean.

Offered: As needed.

# PSCI - Physical Science

PSCI 103 - Physical Science (4)

The processes and natural laws that control our physical environment are investigated. Emphasis is on laboratory experiment. Lecture and laboratory. Students cannot receive credit for both PSCI 103 and PHYS 101-PHYS 102. 6 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Fall, Spring, Summer.

PSCI 204 - Understanding the Physical Universe (4)

Fundamental principles in physical science such as force, energy, cycles and the structure of matter are introduced and used to investigate varied applications and current issues in the physical sciences. 5 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: BIOL 100 and MATH 144 or consent of instructor.

Offered: Fall, Spring, Summer.

PSCI 207 - Introduction to Environmental Chemistry (3)

The flow of material and energy through the Earth system is introduced. Principles of element cycles, climate science, and coastal processes are also investigated.

Offered: Annually.

PSCI 208 - Forensic Science (4)

Students learn about modern forensic techniques used in crime scene analysis. Emphasis is on the methods used to collect and interpret crime scene data.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Any Mathematics or Natural Science.

Offered: Fall, Spring.

PSCI 211 - Introduction to Astronomy (4)

Our solar system, the sun and other stars, galaxies, and the universe are explored. Astronomical phenomena are explained using basic physical principles. Lecture and laboratory.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Fall, Spring.

PSCI 212 - Introduction to Geology (4)

Focus is on the structure and composition of the earth and the processes that have shaped the earth. Topics include minerals, origin of magma, volcanic activity, and weathering and soil formation. Lecture and laboratory.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Fall, Summer.

PSCI 214 - Introduction to Meteorology (4)

This class focuses on the structure, composition and phenomena of the atmosphere. Students examine local and global scale weather patterns, and century to millennial scale climate change.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Completion of any mathematics or natural science general education distribution.

Offered: Fall.

PSCI 217 - Introduction to Oceanography (4)

Topics include mapping the sea floor, formation of the ocean basins, sediments as recorders of ocean history, the composition and physical properties of seawater, ocean circulation, El Ninos, waves, and tides. Lecture and laboratory.

General Education Category: Natural Science.

Prerequisite: Completed college mathematics competency or appropriate score on the math placement exam.

Offered: Spring.

PSCI 262 - Space: The Final Frontier (4)

Students explore the cultural impacts on the imagination of space, the science and technological discoveries for space science, and how space has fueled science fiction literature, film and popular culture.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

PSCI 357 - Historical and Contemporary Contexts of Science (3)

The development of science and technology is explored through case histories from the physical, biological, and environmental sciences. 4 contact hours.

Prerequisite: Any Natural Science course.

Offered: As needed.

PSCI 490 - Directed Study in Physical Science (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. A particular area of physical science is studied on the basis of the interest of the student and the instructor.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PSCI 491-493 - Research in Physical Science (1)

The student conducts original research in an area selected after consultation with the instructor and prepares a report of their work. A maximum of 6 credit hours may be earned in these courses.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

# PHYS - Physics

PHYS 101 - Physics for Science and Mathematics I (4)

This mathematically intensive course includes vectors, statics, kinematics, Newton's laws, energy, momentum, thermodynamics and wave motion. Lecture and laboratory. 6 contact hours.

General Education Category: Natural Science.

Prerequisite: Completed MATH 120 or appropriate score on the mathematics placement exam.

Offered: Fall, Spring, Summer.

PHYS 102 - Physics for Science and Mathematics II (4)

This mathematically intensive course includes electrostatics, DC and AC circuits, magnetism, electromagnetic waves, optics and an introduction to atomic and nuclear physics. Lecture and laboratory. 6 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: PHYS 101.

Offered: Fall, Spring, Summer.

PHYS 103 - Calculus Applications in Mechanics (1)

Students explore calculus-based topics in mechanics including kinematics, work and potential energy, momentum, rotational motion and simple harmonic motion.

Prerequisite: MATH 212, PHYS 101.

Offered: Fall.

PHYS 104 - Calculus Applications in Electricity and Magnetism (1)

Students explore calculus-based topics in electricity and magnetism including force from extended charge distributions, calculation of electric potential, Gauss’s Law, Ampere’s Law, Faraday’s Law and electromagnetic waves.

Prerequisite: MATH 212, PHYS 102.

Offered: Spring.

PHYS 110 - Introductory Physics (4)

This algebra-based course includes vectors, statics, Newton’s Laws, work and energy, electrostatics, DC circuits, magnetism, electromagnetic waves, nuclear radiation, and topics in modern physics. Lecture and Laboratory. 7 contact hours.

General Education Category: Natural Science.

Prerequisite: MATH 120 or appropriate score on the math placement exam.

Offered: Spring, Fall, Summer.

PHYS 118 - Fundamentals of Physics I (4)

This noncalculus-based course includes vectors, statics, kinematics, Newton’s laws, energy, momentum, fluids, thermodynamics and wave motion. Lecture and laboratory.

Offered: As needed.

PHYS 119 - Fundamentals of Physics II (4)

This noncalculus-based course  includes electrostatics, DC and AC circuits, magnetism, electromagnetic waves, optics, and an introduction to atomic and nuclear physics. Lecture and laboratory.

Prerequisite: PHYS 118.

Offered: As needed.

PHYS 120 - The Extraordinary Physics of Ordinary Things (4)

Students will learn about physical principles governing everyday applications and phenomena such as sports, musical instruments, computers, etc. Students will see how various physical principles work together in these technologies.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any mathematics general education distribution.

Offered: Spring.

PHYS 307 - Quantum Mechanics I (4)

Topics include relativistic mechanics, the failures of classical physics, the structure of the atom, and the wave description of matter, including the Schrödinger Equation, the hydrogen atom, angular momentum and spin. Lecture

Prerequisite: PHYS 102.

Offered: Spring (odd years).

PHYS 309 - Nanoscience and Nanotechnology (4)

This course will introduce the basic physics of nanoscience, describe how properties change at the nanoscale and relate this basic science to new nanotechnologies**.**

General Education Category: Advanced Quantitative/Scientific Reasoning

Prerequisite: Any Natural Science General Education course.

Offered: Fall (even years).

PHYS 311 - Thermodynamics (4)

This is an introduction to the laws of thermodynamics and its application to equilibrium systems, such as ideal gases, phase transformations, solutions and chemical reactions, and elementary statistical mechanics. Lecture.

Prerequisite: PHYS 101 and successful completion of or concurrent enrollment in MATH 213, or consent of department chair.

Offered: Spring (even years).

PHYS 312 - Mathematical Methods in Physics (3)

Topics include curvilinear coordinates, complex variables, integral transforms, vectors and matrices, special functions, differential equations, and numerical methods as applied to physics. Lecture.

Prerequisite: MATH 314.

Offered: Fall.

PHYS 313W - Junior Laboratory (3)

Intermediate-level experiments are performed in all areas of physics. Students also learn research skills, such as data analysis, literature review, and communication skills. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 and PHYS 307.

Offered: Fall.

PHYS 315 - Optics (4)

This course covers electromagnetic waves, geometric optics, and physical optics. Topics include: mirrors, lenses, optical systems, thick lenses, aberrations, interference, diffraction, polarization, coherence, and lasers. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Spring (odd years).

PHYS 320 - Analog Electronics (4)

Students examine discrete components, including resistors, capacitors, diodes, and transistors, and their applications. Oscilloscopes and other standard laboratory test equipment are used extensively. Integrated circuits are also introduced. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Fall (odd years).

PHYS 321 - Digital Electronics (4)

Students explore basic logic chips and combine them to build digital devices including a microcomputer. Devices include multiplexers, counters, adders, flip-flops, and memory buses. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Spring (even years).

PHYS 401 - Advanced Electricity and Magnetism I (4)

This is an examination of the theory and application of electrostatic fields, charge, potential, magnetic fields, steady currents, magnetic flux, inductance, transient current, radiation, magnetic energy and Maxwell's Equations. Lecture.

Prerequisite: MATH 314 and PHYS 102.

Offered: Spring (even years).

PHYS 402 - Advanced Electricity and Magnetism II (3)

This course covers the principles of electrodynamics, conservation laws, electromagnetic radiation, and the application of Special Relativity to electrodynamics. Lecture.

Prerequisite: PHYS 401.

Offered: As needed.

PHYS 403 - Classical Mechanics (4)

This course covers, at an advanced level, the classical theory of linear and rotational dynamics of particles and continuous media. An introduction to Lagrangian mechanics and special relativity is included. Lecture.

Prerequisite: MATH 314, PHYS 102.

Offered: Spring (odd years).

PHYS 407 - Quantum Mechanics II (3)

Topics include the structure of solids, approximation techniques, nuclear physics, and particle physics. Lecture.

Prerequisite: PHYS 102 and PHYS 307.

Offered: As needed.

PHYS 409 - Solid State Physics (3)

Topics include crystallography, common crystal structures, the reciprocal lattice, band theory, phonons, metals, and semiconductors. Lecture.

Prerequisite: PHYS 307.

Offered: As needed.

PHYS 413W - Senior Laboratory (3)

Advanced experiments in mechanics, waves, thermodynamics, optics, electromagnetism, and other topics are conducted. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 and PHYS 313W.

Offered: Fall.

PHYS 467 - Honors Colloquium in Physics ()

Current topics in science at an advanced level are presented through department colloquia with outside speakers and through a series of seminars led by resident experts. This course may be repeated for credit with a change in content. 1 contact hour. Graded S, U.

Prerequisite: PHYS 102 and consent of department chair.

Offered: Fall, Spring.

PHYS 490 - Directed Study in Physics (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. An area of physics is studied on the basis of the interest of the student and the instructor.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PHYS 491-493 - Research in Physics (1)

The student conducts original research in an area selected after consulting with the instructor and prepares a report on the work. A maximum of 6 credit hours may be earned in these courses.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

# POL - Political Science

POL 202 - American Government (4)

The institutions and principles of American national government are examined. Topics include the constitutional foundation, federalism, political parties, Congress, the presidency, the Supreme Court, and civil rights.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

POL 203 - Global Politics (4)

This is an introduction to the governance of other contemporary national political systems and to the forces, principles, and transnational arrangements of international politics.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

POL 204 - Introduction to Political Thought (4)

Fundamental concepts and issues of philosophy and political theory are investigated. Basic precepts about authority, law, government, and the terms of obligation are examined in light of contemporary concerns.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

POL 208 - Introduction to the Law (4)

Students are introduced to the legal system, the nature of legal reasoning and the roles of judges, juries, legislatures and others in shaping the law.

Offered: Fall, Spring.

POL 262 - Power and Community (4)

Students study normative and empirical aspects of the concepts of “power” and “community.” Examples of power relations in a variety of contexts and settings will be compared.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

POL 265 - Politics and Popular Culture: Global Perspectives (4)

Students investigate the intersection of politics and popular culture in Western and non-Western societies by examining entertainment values, their relationship to political culture and behavior, and the debate over globalization.

General Education Category: Core 4.

Prerequisite: Gen. Ed. Core 1, 2, and 3.

Offered: Annually.

POL 267 - Immigration, Citizenship, and National Identity (4)

Students investigate how different societies have dealt with citizenship and immigration issues and how conceptions of nationhood influence citizenship and immigration debates.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

POL 300 - Methodology in Political Science (4)

The approaches and methods of empirical political science research are surveyed. Emphasis is on research design, data collection, and interpretation.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: POL 202 and any Gen. Ed. Mathematics course, or consent of department chair.

Offered: Fall, Spring.

POL 301W - Foundations of Public Administration (4)

The art and science of public administration is introduced. Focus is on the administrative leadership necessary to manage government agencies within the American political system. This is a Writing in the Discipline (WID) course.

Prerequisite: POL 202 or consent of department chair.

Offered: Fall.

POL 303 - International Law and Organization (4)

Both twentieth-century international organization and the place of evolving international law are considered with respect to the settlement of disputes and the maintenance of peace.

Prerequisite: POL 203 or consent of department chair.

Offered: Spring.

POL 306 - State and Local Government (4)

Students examine the political structures, processes, policies, and power distributions in state and local governments in the United States. Topics include intergovernmental relations, executive leadership, and legislative policy making.

Prerequisite: POL 202 or consent of department chair.

Offered: Every third semester.

POL 307 - Political Behavior (4)

Students examine how individuals interact with the American political system. Topics include political socialization, political psychology, public opinion, voting behavior, and other forms of mass political participation.

Prerequisite: POL 202.

Offered: Fall (even years).

POL 308W - Current Political Controversy (4)

Students learn the art and science of political analysis by critically reading and writing about political controversies currently in the news while learning to use the tools and data available to political scientists. This is a Writing in the Discipline (WID) course.

Prerequisite: POL 202 and completion of 30 credits.

Offered: Fall, Spring.

POL 309 - Gender and Politics in the U.S. (4)

Focus is on the increasing involvement of women in the politics and issues of contemporary America. Women's political socialization, voting behavior and political roles in government are also discussed.

Prerequisite: POL 202 or consent of department chair.

Offered: As needed.

POL 315 - Western Legal Systems (4)

This is a comparative study of English common law and continental European civil law. Students cannot receive credit for both POL 315 and HIST 315.

Prerequisite: Completion of one of the following: HIST 101, HIST 102, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, or HIST 161; or consent of department chair.

Offered: As needed.

POL 316 - Modern Western Political Thought (4)

The ideas of major Western political thinkers are reviewed. Students cannot receive credit for both HIST 316 and POL 316.

Prerequisite: POL 204 or consent of department chair.

Offered: Fall.

POL 317 - Politics and Society (4)

Relationships of power and authority and their social foundations are examined. Students cannot receive credit for more than one of the following: HIST 317, POL 317, and SOC 317.

Prerequisite: POL 204 or consent of department chair.

Offered: Spring.

POL 318 - Crises of Liberalism (4)

Liberalism is studied and critiqued as political philosophy and as creed: a liberalism of toleration/inalienable natural rights; a liberalism of autonomy/market choice; a liberalism of human development/capability.

Prerequisite: POL 204 or consent of department chair.

Offered: Fall.

POL 327 - Internship in State Government (4)

Through field placements in the government of Rhode Island, students are able to integrate classroom theory with political reality. Included is a weekly lecture series involving the participation of appropriate political leaders and academics.

Prerequisite: Recommendation of the Academic Advisory Committee to the State Internship Commission.

Offered: Spring.

POL 328 - Field Experiences in the Public Sector (4)

Students are assigned to local, state, or national agencies, political parties, or interest groups. Assignments relate field experiences to academic concepts.

Prerequisite: Consent of department chair.

Offered: Fall, Spring, Summer.

POL 330 - Jurisprudence and the American Judicial Process (4)

Students examine and compare theories of law and legal reasoning, focusing on how judges determine what the law is and apply it to decide cases across different areas of law.

Prerequisite: One 200-level political science course or consent of department chair.

Offered: As needed.

POL 331 - Courts and Public Policy (4)

Students examine the role of courts in forming and implementing public policy. Topics include litigation strategies, the selection of judges, judicial activism, and the impact of court decisions on society.

Prerequisite: POL 202.

Offered: Fall.

POL 332 - Civil Liberties in the United States (4)

Traditional constitutional guarantees of civil liberty and due process in American life are examined. Included are an examination of legal decisions and the justifications offered for those decisions.

Prerequisite: POL 202.

Offered: Fall, Spring.

POL 333 - Law and Politics of Civil Rights (4)

Struggles for legal and political equality are examined, with primary focus on discrimination based on race, sex, and sexual orientation. Interactions among law, political institutions, interest groups, and social movements are also explored.

Prerequisite: POL 202 or consent of department chair.

Offered: Annually.

POL 334 - Contemporary Constitutional Problems (4)

Students explore current issues in constitutional law, focusing on questions of federalism and the separation of powers, and participate in a Supreme Court simulation.

Prerequisite: POL 202 and one of the following: POL 208, POL 315, POL 331, POL 332, POL 333, or consent of department chair.

Offered: Spring (alternate years).

POL 337 - Urban Political Geography (3)

Geographic and political analyses are used to study the growth of cities. Consideration is given to the role of cities on local, national, and world scales. Students cannot receive credit for both GEOG 337 and POL 337.

Prerequisite: Any 200-level geography or political science course or consent of department chair.

Offered: As needed.

POL 341 - The Politics of Developing Nations (4)

Students study politics with an emphasis is on determinants of political development and economic growth, including (non)democratic institutions, natural resources, human capital, and international trade.

Prerequisite: POL 203 or consent of department chair.

Offered: Spring.

POL 342 - The Politics of Global Economic Change (4)

Students examine economic globalization, including trade, finance, and migration, from different perspectives. Emphasis is on causes and political consequences of globalization.

Prerequisite: POL 203 or consent of department chair.

Offered: Every third semester.

POL 343 - The Politics of Western Democracies (4)

The political structures, processes, and policies of the principal West European and Anglo-American postindustrial societies are compared and analyzed.

Prerequisite: One 200-level political science course or consent of department chair.

Offered: As needed.

POL 344 - Human Rights (4)

Important and relevant theories of human rights and current case studies relating to the protection and violation of human rights are examined.

Prerequisite: Completion of at least 30 college credits.

Offered: Spring (alternate years).

POL 345 - International NGOs and Nonprofits (4)

The various roles of international nongovernmental and nonprofit organizations are examined. Students cannot receive credit for both INGO 300 and POL 345.

Prerequisite: POL 203 or consent of program director.

Offered: Fall.

POL 346 - Foreign Policy (4)

American foreign policy, decision making, and politics are examined. The policies and decision-making particulars of other governments are developed where appropriate.

Prerequisite: POL 203.

Offered: As needed.

POL 347 - Political Activism and Social Justice (4)

Students explore nonviolence as a strategy for change through international and national social movements since World War II. Hybrid course.

Prerequisite: Minimum of 30 completed college credits.

Offered: Spring (Alternate years).

POL 348 - Middle Eastern and North African Politics (4)

Students analyze ongoing political transformation and developments in the region, tied to both historical and political contexts. Topics include authoritarianism, oil, gender, terrorism, political Islam, and more.

Prerequisite: POL 203 or consent of department chair.

Offered: Fall.

POL 353 - Parties and Elections (4)

Political parties and the American system of elections are analyzed. Also covered are the organizational aspects of the parties, mass voting behavior, the impact of elections on policymaking and national and state trends.

Prerequisite: POL 202 or consent of department chair.

Offered: Fall, of election years.

POL 354 - Interest Group Politics (4)

This is an in-depth examination of interest groups and the roles they play in American politics. Topics include group formation and maintenance, lobbyists and lobbying, electioneering, issue advocacy, and campaign finance.

Prerequisite: POL 202 or consent of department chair.

Offered: Fall (alternate years).

POL 355 - Policy Formation Process (4)

Public policy formulation, from input to output, by the major institutions of government is studied. Included are the internal processes and interactions of legislatures and executives.

Prerequisite: POL 202 or consent of department chair.

Offered: Spring.

POL 357 - The American Presidency (4)

The constitutional and institutional evolution of the presidency is studied, including the demands and resources of the office. Students cannot receive credit for both HIST 332 and POL 357.

Prerequisite: Any 200-level history or political science course or consent of department chair.

Offered: As needed.

POL 358 - The American Congress (4)

Students examine the development of Congress and assess its structure, the behavior of its members, and its role in American politics.

Prerequisite: POL 202 or consent of department chair.

Offered: Every third semester.

POL 359 - Politics and the Media (4)

The role media plays in politics is analyzed. Topics include media evolution and regulation and the relationship between media and political institutions/policy in the United States.

Prerequisite: POL 202 or consent of instructor.

Offered: As needed.

POL 381 - Workshop in Public Service (1-4)

Selected topics are investigated in various formats.

Prerequisite: Varies.

Offered: As needed.

POL 390 - Directed Study in Political Science (1-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Major in political science and consent of instructor, department chair and dean.

Offered: As needed.

POL 444 - British Politics and Cultural Studies (3)

Focus is on British politics, government, constitution, political subcultures, and media since World War II and British involvement in the European Union. See The London Course under the political science program. 6 contact hours.

Prerequisite: Consent of department chair.

Offered: Summer.

POL 445 - European Political Geography (3)

The political geography, city planning, and urban policy within the European Union is studied, with focus on London. See The London Course under the political science program. 12 contact hours.

Prerequisite: Consent of department chair.

Offered: Summer.

POL 456 - Policy Analysis (3)

The substance of public policy in the United States is investigated. Focus is on various models of policy analysis that seek to explain the variables that influence the initiation, implementation, and outcome of policy decisions.

Prerequisite: POL 202 or consent of department chair.

Offered: Spring.

POL 460 - Senior Seminar in Political Science (4)

This is an integrating experience in political science. Students complete a project that demonstrates their ability to investigate, write about, and orally present significant research.

Prerequisite: Senior standing and 12 credit hours of political science courses.

Offered: Fall, Spring.

POL 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean, and admission to the political science honors program.

Offered: As needed.

POL 492 - Independent Study II (4)

This course continues the development of research or activity begun in POL 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: POL 491 and consent of instructor, department chair and dean.

Offered: As needed.

POL 504 - Federalism and Intergovernmental Relations (3)

The financial and programmatic relationships among federal, state, and local governments are examined. The federal government's efforts to achieve national policy objectives are also investigated.

Prerequisite: Early admission to the University of Rhode Island M.P.A. program or graduate status at Rhode Island College or consent of department chair.

Offered: As needed.

POL 531 - Public Policy in the Arts (3)

The history, interests, purposes, rationales, politics, and programs of public agencies involved in shaping public policy in the arts are studied.

Prerequisite: Admission to the M.F.A. in theatre program or consent of department chair.

Offered: Spring.

# PORT - Portuguese

PORT 101 - Elementary Portuguese I (4)

Students learn to understand, speak, read, and write in Portuguese and gain an understanding of Portuguese life and character. Online work is required. This course is not open to students who have offered admission credit in Portuguese.

Offered: Fall, Spring.

PORT 102 - Elementary Portuguese II (4)

Four skills in elementary Portuguese—listening, speaking, reading, and writing—are further developed within the context of Portuguese culture. Online work is required.

General Education Category: Satisfies Gen. Ed. language requirement.

Prerequisite: PORT 101 or placement test or consent of department chair.

Offered: Fall, Spring.

PORT 113 - Intermediate Portuguese (4)

The cultural and linguistic heritage of the Portuguese-speaking world is examined through selected readings. Grammar is reviewed and basic oral and written skills developed. Online work is required.

Prerequisite: PORT 102 or placement test.

Offered: Spring.

PORT 114 - Readings in Intermediate Portuguese (4)

Students develop both reading skills and an appreciation of literature as a reflection of the heritage of the Portuguese-speaking world. Development of oral skill is continued, and attention is given to written practice.

Prerequisite: PORT 113 or equivalent or consent of department chair.

Offered: Fall.

PORT 115 - Literature of the Portuguese-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from Portugal and the Lusophone World as they continue to develop speaking, reading, and writing skills in Portuguese.

General Education Category: Literature.

Prerequisite: PORT 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

PORT 201W - Conversation and Composition (4)

Students develop correct pronunciation through practice and elementary work in phonetics. Emphasis is on the use of correct spoken Portuguese on an advanced level. This is a Writing in the Discipline (WID) course.

Prerequisite: PORT 115 or equivalent or consent of department chair.

Offered: Fall.

PORT 202W - Composition and Conversation (4)

Writing skills in Portuguese are developed through grammatical exercises, controlled composition, original themes, and the stylistic analysis of literary texts. Discussions of written materials in Portuguese provide oral practice. This is a Writing in the Discipline (WID) course.

Prerequisite: PORT 115 or equivalent or consent of department chair.

Offered: Spring.

PORT 302 - Portuguese Literature and Culture (4)

Students survey the literary, cultural, and historical aspects of Portuguese identity, from medieval times to modernism. Major literary currents and works of each period are studied.

Prerequisite: PORT 202 or PORT 202W or consent of department chair.

Offered: Alternate years.

PORT 303 - Insular Literatures and Cultures (4)

Students survey the cultural, literary, linguistic, and historical aspects of the insular Portuguese-speaking regions and island nations of the world. Major literary currents, works, and authors are studied.

Prerequisite: PORT 202 or consent of department chair.

Offered: Alternate years.

PORT 304 - Brazilian Literature and Culture (4)

This is an introduction to the cultural, social, and historical aspects of Brazilian identity, from colonial times to the early twentieth century. Major literary currents, works, and authors of each period are studied.

Prerequisite: PORT 202 or PORT 202W or consent of department chair.

Offered: Alternate years.

PORT 305 - Lusophone African Literatures and Cultures (4)

This is an introduction to the culture, history, and literary movements of African Lusophone nations. Major literary currents and works are studied from Cape Verde, Guinea-Bissau, São Tomé and Principe, Angola, and Mozambique.

Prerequisite: PORT 202 or PORT 202W or consent of department chair.

Offered: As needed.

PORT 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PORT 420W - Applied Grammar (3)

Practical application of grammar is given in both oral and written form, along with an intensive study of construction and idiomatic expressions. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: PORT 301, PORT 302, PORT 304, PORT 305; or consent of department chair.

Offered: Alternate years.

PORT 460W - Seminar in Portuguese (3)

In-depth study of literary and cultural topics in Portuguese and Lusophone literatures and cultures. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of TWO from PORT 301, PORT 302, PORT 304, or PORT 305; and ONE 400-level PORT course, or consent of department chair.

Offered: As needed.

PORT 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the portuguese honors program.

Offered: As needed.

PORT 492 - Independent Study II (3)

This course continues the development of research or creative activity begun in PORT 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: PORT 491 and consent of instructor, program director and dean.

Offered: As needed.

PORT 520 - Applied Grammar (3)

Students study advanced subtleties of the Portuguese language and refine their knowledge of Portuguese grammar, syntax, vocabulary and stylistics.

Prerequisite: Graduate status, or permission of department chair and dean.

Offered: As needed.

PORT 560 - Graduate Seminar in Portuguese (3)

Students engage in intensive study of one major author or important period in Portuguese, Brazilian or African Lusophone literatures. A major paper in thesis form is required.

Prerequisite: Graduate status, or permission of department chair and dean.

Offered: As needed.

# PSYC - Psychology

PSYC 110 - Introduction to Psychology (4)

The science of psychology is surveyed, with an emphasis on the biopsychosocial factors that influence behavior.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

PSYC 210 - Careers and Psychology (1)

Students explore areas within psychology, related career options and formulate personal career goals. Career options include opportunities with bachelor’s degrees and advanced graduate degrees.

Prerequisite: Psychology major, or permission from department chair.

Offered: Annually.

PSYC 215 - Social Psychology (4)

The ways in which individuals are affected by, and in turn affect, their social environment is introduced. Topics include intragroup and intergroup relations and cultural influences on behavior.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

PSYC 217 - Drugs and Chemical Dependency (4)

Psychoactive drugs and their effects are reviewed. Emphasis is on physiological brain response, history of drug use and drug control, chemical dependency, and drug abuse education.

Prerequisite: PSYC 110.

Offered: Fall, Spring.

PSYC 221W - Research Methods I: Foundations (4)

Psychological research is introduced. Topics include the nature of empirical research, varieties of research strategies and methods, the process of conducting research, and elementary data analysis. This is a Writing in the Discipline (WID) course.

Prerequisite: PSYC 110 or equivalent.

Offered: Fall, Spring, Summer.

PSYC 230 - Human Development (4)

This is a survey of life span development. Included are major theories and contemporary information relating to learning and biopsychosocial development.

Prerequisite: PSYC 110 or equivalent.

Offered: Fall, Spring, Summer.

PSYC 251 - Personality (4)

Personality functioning is studied, including biopsychosocial determinants, theories of personality, and techniques of personality assessment in children and adults.

Prerequisite: PSYC 110 or equivalent.

Offered: Fall, Spring, Summer.

PSYC 320 - Research Methods II: Behavioral Statistics (4)

Statistical methods and research design as they are used in psychological investigations are examined. Topics include measures of central tendency, variance, probability, and statistical tests.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Fall, Spring.

PSYC 331 - Child Psychology (4)

Development, from conception to early adolescence, is studied, with an emphasis on biopsychosocial factors.

Prerequisite: PSYC 221 or PSYC 221W, and PSYC 230 or equivalents.

Offered: Annually.

PSYC 332 - Adolescent Psychology (4)

Significant factors in adolescent development are studied. Emphasis is on adjustment to adolescent roles and the search for self-identity .

Prerequisite: PSYC 221 or PSYC 221W, and PSYC 230 or equivalents.YC 221 and PSYC 230 or equivalents.

Offered: Annually.

PSYC 335 - Family Psychology (4)

Theories and research on family structure, functioning, and development, are examined. Discussion includes the interdependent relationships between an individual's thoughts, feelings, and behaviors and the family system.

Prerequisite: PSYC 221 or PSYC 221W, and PSYC 230 or equivalents.

Offered: Annually.

PSYC 339 - Psychology of Aging (4)

Theory and research relating to psychological processes in adulthood and old age are addressed. Topics include behavior-biology interactions and perceptual, cognitive, and intellectual functioning.

Prerequisite: PSYC 221 or PSYC 221W, and PSYC 230 or equivalents.

Offered: Annually.

PSYC 341 - Perception (4)

The variables that determine what we perceive are explored, including input from sensory systems and the effects of attention and past experience. Included are experimental techniques used to investigate perceptual phenomena.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Annually.

PSYC 344 - Learning (4)

Traditional theories and contemporary models of learning are examined. Emphasis is on relationships between theories and observed phenomena.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Annually.

PSYC 345 - Physiological Psychology (4)

Neural and chemical bases of behavior are examined, including the relationship between anatomical, neurophysiological, and behavioral data. General principles of sensory functioning, control of movement, and rhythms are also considered.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Fall, Spring.

PSYC 347 - Social Cognition (4)

Theoretical and empirical approaches to people's understanding of the social environment are examined, including the contribution of neurological, cognitive, and cultural processes.

Prerequisite: PSYC 215 and PSYC 221 or PSYC 221W, or equivalent.

Offered: As needed.

PSYC 349 - Cognitive Psychology (4)

Historical and contemporary views of cognitive functioning are introduced, with emphasis on current interpretations of a wide range of cognitive phenomena. Included are information-processing theories.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Fall, Spring.

PSYC 351 - Psychology of Human Diversity (4)

Psychosocial factors relating to human diversity, such as gender, socioeconomic class, and race/ethnicity, are presented. Included are historical and contemporary effects of discrimination and methods of reducing intergroup conflict.

Prerequisite: PSYC 110 (or PSYC 215) and PSYC 221 or PSYC 221W,.

Offered: Fall, Spring.

PSYC 354 - Psychopathology (4)

Traditional and contemporary approaches to the understanding and treatment of a wide range of abnormal behaviors, both in children and in adults, are studied.

Prerequisite: PSYC 221 or PSYC 221W, and PSYC 251 or equivalents.

Offered: Fall, Spring.

PSYC 356 - Psychology of Gender (4)

Documented sex differences from biological, biosocial, and social-psychological perspectives are analyzed. Included are theories and research findings relating to personality, self-concept, and mental health.

Prerequisite: PSYC 215 and PSYC 221 or PSYC 221W, or equivalents.

Offered: Fall, Spring.

PSYC 360 - Seminar in Current Topics (4)

Contemporary issues and developments in the field of psychology are explored. Recent research and theoretical literature are considered. Topics vary. This course may be repeated for credit with a change in content.

Prerequisite: PSYC 221 or PSYC 221W, and consent of department chair.

Offered: As needed.

PSYC 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent, 6 credit hours of 300-level psychology courses, and consent of department chair and dean.

Offered: As needed.

PSYC 391 - Directed Research (3)

This is a continuation of PSYC 390.

Prerequisite: PSYC 390 and consent of department chair and dean.

Offered: As needed.

PSYC 392 - Problems in Psychological Research (4)

Topics of current interest are selected from psychological literature. Under the supervision of the instructor, students conduct investigations into these topic areas. One class per week is devoted to problems of research design and methodology.

Prerequisite: Completion of or concurrent enrollment in PSYC 474W or PSYC 476W, or consent of department chair.

Offered: As needed.

PSYC 421 - Behavior Modification (4)

The principles of behavior modification are studied. These principles are applied to a variety of behaviors and settings.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Annually.

PSYC 422 - Psychological Testing (4)

The basic principles of construction, selection, and interpretation of psychological tests are introduced. Also considered are reliability, validity, and norms.

Prerequisite: PSYC 221 or PSYC 221W, or equivalent.

Offered: Annually.

PSYC 423 - Psychology and the Law (4)

Psychological theory and research are applied to the legal system. Topics may include the psychological factors influencing eyewitness testimony and jury deliberations.

Prerequisite: PSYC 215 and PSYC 221 or PSYC 221W, or equivalents.

Offered: Annually.

PSYC 424 - Health Psychology (4)

The psychological influences on how people stay healthy, become ill, and respond when they are ill are examined. Emphasis is on the application of psychological research and theory to health promotion.

Prerequisite: PSYC 221 or PSYC 221W, and either PSYC 215 or PSYC 251 or equivalents.

Offered: Annually.

PSYC 425 - Community Psychology (4)

Relationships between people in their social context, environmental conditions, and the behavioral health of communities are explored. Focus is on evidence-based practices for community groups.

Prerequisite: : PSYC 110 (or PSYC 215) and PSYC 221 or PSYC 221W.

Offered: Fall.

PSYC 426 - Internship in Psychology (4)

Students gain hands-on professional experience by working in internship settings. Course includes reflecting upon and analyzing work experiences to understand the career applications of concepts and skills in psychology.

Prerequisite: PSYC 221 or PSYC 221W,, completion of 24 credits in psychology and 72 total credits, a cumulative G.P.A. of 2.5 and consent of instructor. Application is required. Open to undergraduate students only. Preference is given to B.A. majors and minors in psychology.

Offered: Annually.

PSYC 445 - Behavioral Neuroscience (4)

Advanced assessment of neural systems and function is presented, with an emphasis on techniques and laboratory approaches. Neuroscience labs include anatomical, physiological, pharmacological, genetic, and behavioral analyses in animal models.

Prerequisite: PSYC 110, PSYC 221 or PSYC 221W,, PSYC 345.

Offered: Annually.

PSYC 452 - Theories of Psychological Intervention (4)

Theory and methods of psychological and behavioral interventions are presented. Focus is on an evidence-based approach to treating psychological disorders, including substance abuse.

Prerequisite: PSYC 217 and PSYC 354 or equivalents.

Offered: Spring.

PSYC 471 - Practicum in Behavioral Health Studies (4)

Students practice intervention strategies, with emphasis on self-awareness and self-assessment. Observation and evaluation is conducted by the practicum supervisor. 5 contact hours.

Prerequisite: Acceptance into the B.S. in chemical dependency/addiction studies program and PSYC 351 and PSYC 452.

Offered: Fall.

PSYC 472 - Internship in Behavioral Health Studies (4)

Students gain field experience in an agency providing substance abuse services. Included are weekly seminar sessions, on-site visits, and field consultation. 15 contact hours.

Prerequisite: PSYC 425, PSYC 471, and approval of practicum and internship instructors.

Offered: Spring.

PSYC 474W - Research Methods III: General Psychology Lab (4)

Students will engage in laboratory and/or field research designs, procedures, analyses, and interpretation of data. Specific disciplinary area of psychology will vary with instructor. This is a Writing in the Discipline (WID) course. 5 contact hours.

Prerequisite: PSYC 320; and at least TWO from PSYC 215, PSYC 230 or PSYC 251; and at least ONE course from PSYC 331, PSYC 332, PSYC 335, PSYC 339, PSYC 341, PSYC 344, PSYC 345, PSYC 347, PSYC 349, PSYC 351, PSYC 354, PSYC 456, or PSYC 421, PSYC 422, PSYC 423, PSYC 424, PSYC 425, or PSYC 426.

Offered: Fall, Spring.

PSYC 476W - Research Methods III: Applied Lab (4)

Standard research procedures, research design, and analysis and interpretation of data from the applied and human services areas of psychology are presented. This is a Writing in the Discipline (WID) course. 5 contact hours.

Prerequisite: PSYC 320 and at least one course from PSYC 351, PSYC 354, PSYC 356, PSYC 421, PSYC 422, PSYC 423, PSYC 424, PSYC 425.

Offered: Annually.

PSYC 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: PSYC 221 or equivalent, 6 credit hours of 300-level psychology courses; consent of instructor, department chair and dean; and admission to the psychology honors program.

Offered: As needed.

PSYC 492 - Independent Study II (3)

This course continues the development of research or activity begun in PSYC 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: PSYC 491 and consent of department chair and dean.

Offered: As needed.

PSYC 500 - Research Design and Analysis I (3)

The design and analysis of descriptive and non-experimental research designs are covered. Statistical analyses focus on correlation and regression-based techniques.

Prerequisite: Graduate status and undergraduate courses in research methods and statistics, or consent of department chair.

Offered: Fall.

PSYC 501 - Research Design and Analysis II (3)

The design and analysis of experimental and quasi-experimental research designs are covered. Statistical analyses focus on ANOVA-based techniques.

Prerequisite: Graduate status and undergraduate courses in research methods and statistics or consent of department chair.

Offered: Spring.

PSYC 505 - Pro Seminar (3)

Students engage in professional development, including self-assessment, goal-making, research discussions with current faculty and learning about professional activities within the discipline. (Must be completed within the first three semesters in the program.)

Prerequisite: Graduate status, or permission of chair and dean.

Offered: Fall.

PSYC 538 - Seminar in Child and Adolescent Development (3)

Milestones in physical, social, emotional, cognitive, and language development from conception through adolescence are examined, with emphasis on theory and research.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring (even years).

PSYC 549 - Cognition (3)

Cognition is studied from a contemporary information-processing point of view. Included are historical antecedents, relationships to alternative theoretical perspectives, and applications to learning, development, and problem solving.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall (even years).

PSYC 556 - Seminar in Personality Theory (3)

Personality theories are considered in the context of the philosophical and sociocultural environments in which they evolved. Relationships between behavioral development and theoretical predictions are examined.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall (odd years).

PSYC 558 - Seminar in Social Psychology (3)

An overview is given of the field of social psychology organized around major research areas. Each of the areas is critically examined using primary sources and representative empirical research.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring (odd years).

PSYC 560 - Current Issues in Psychology (3)

Contemporary issues and developments in the field of psychology are explored at the graduate level. Recent research and theoretical literature are considered. Topics vary. This course may be repeated for credit with a change in content.

Prerequisite: Graduate status and 6 credit hours of psychology courses, or consent of department chair.

Offered: As needed.

PSYC 593 - Directed Reading (3)

Under the supervision of a faculty member, the student engages in intensive readings on a specific topic in psychology.

Prerequisite: Graduate status and PSYC 500 and PSYC 501 or equivalents, completion of 3 additional credit hours in the plan of study, good standing (see Graduate Manual), and consent of department chair and dean.

Offered: As needed.

PSYC 594 - Directed Research (3)

Students undertake a qualitative or quantitative empirical research project under the supervision of a faculty advisor.

Prerequisite: Graduate status and PSYC 500 and PSYC 501 or equivalents, good standing (see Graduate Manual), and consent of department chair and dean.

Offered: As needed.

PSYC 599 - Master's Thesis (3-6)

Students conduct a quantitative or qualitative empirical study. May be repeated once for a maximum of 6 credits

Prerequisite: Graduate status and PSYC 500 and PSYC 501 or equivalents, completion of 9 additional credits in the program, thesis committee approval, good standing (see Graduate Manual), and consent of department chair and dean.

Offered: As needed.

# PBAD - Public Administration

PBAD 325 - Politics of Public Management (4)

Budgeting and Personnel Administration, Emphasis is on the central role of public budgets in policy formation and on the search for balance among a representative public work force, neutral competence, and political responsiveness.

Prerequisite: POL 301 or POL 301W, or consent of department chair.

Offered: Spring.

PBAD 326 - Public Sector Information Systems (4)

Students are introduced to the use of public sector information systems, their impact on the relationship between citizens and government, and the career opportunities they present.

Prerequisite: POL 202 or by consent of the program director.

Offered: Fall.

# RAD Radiography

RAD 331 - Foundations of Radiography (3)

Students are introduced to radiography, imaging equipment, and the radiography clinical environment. Topics include terminology, positioning and imaging principles, and radiation safety.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 332 - Radiographic Procedures I (3)

Students will learn positioning skills for chest, abdomen, and upper and lower extremities. Students will be introduced to basic pathologies related to anatomy included in this course.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 333 - Radiographic Procedures II (3)

Students will learn positioning skills for spine, bony thorax, cranium, facial bones, sinuses and contrast examinations.

Prerequisite: Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Summer

RAD 334 - Principles of Radiography (4)

Students are asked to make connections between the introductory lectures and clinical practice.  This course prepares students for the national certification exams.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 335 - Radiation Physics (3)

Students will learn about x-ray circuit components, methods of rectification, and construction of the x-ray tube. Topics include X-ray interactions and the absorption of radiation and effects upon tissue and tissue recovery.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Summer

RAD 336 - Clinical Education I (3)

Students are introduced to the clinical environment with emphasis on radiography department procedures, radiation safety, and patient care. Students gain practical experience observing and applying imaging principles. 18 contact hours

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 338 - Clinical Education II (5)

Student learn general radiography procedures, radiation safety, and patient care with emphasis radiographer skills. They will gain practical experience applying imaging principles.. 30 contact hours.

Offered: Summer

RAD 432 - Radiobiology (4)

Students learn the concepts of creating and capturing digital images including preprocessing, processing, and postprocessing. Students will also learn principles of radiobiology and radiation protection.

Offered: Fall

RAD 433 - Clinical Education III (5)

Students perform routine radiography procedures in various clinical settings on all patient types with emphasis on exposure factors and gaining independence in the clinical environment. 30 contact hours

Offered: Fall

RAD 434 - Advanced Procedures in Radiography (3)

Students will learn about advanced procedures in radiography, including trauma, mobile, and surgical radiography, pediatrics, arthrography, hysterosalpingography, myelography, orthoroentgentography, and biliary duct procedures. Emphasis will be on case studies.

Offered: Spring

RAD 435 - Registry Review (3)

Students will review the specifications of the ARRT Radiography examination, the guidelines for application, study strategies, and content included in the exam.

Offered: Spring

RAD 436 - Clinical Education IV (4)

Students will perform routine radiography procedures in various clinical settings on all patient types with an emphasis on critical thinking and problem solving in the clinical environment. 24 contact hours

Offered: Spring

# RADT - Radiologic Technology

RADT 301 - Introduction to Radiographic Procedures (2)

This course introduces positioning terminology, X-RAY equipment, safety and shielding. 6 contact hours.

Prerequisite: MEDI 201 and admission into the MEDI-RT Clinical Program.

Offered: Fall.

RADT 305 - Skeletal Anatomy (3)

Students learn the anatomy of the skeletal system, including identification of bony processes and specific anatomical features. Students identify and describe the articulations of different bones.

Prerequisite: MEDI 201 or RADT 201.

Offered: Spring.

RADT 306 - Radiographic Procedures I (4)

Basic patient positioning, exposure factors, shielding, trauma, surgery, pediatric and mobile procedures will be explored. Topics include upper and lower extremity, shoulder girdle, pelvic girdle, bony thorax and vertebral column.

Prerequisite: RADT 301 and admission into the MEDI-RT clinical program.

Offered: Spring.

RADT 307 - Radiographic Procedures II (3)

A continuation of RADT 306, this course includes positioning principles of bony thorax, skull, and contrast agent studies of the digestive, biliary, and urinary systems.

Prerequisite: RADT 306.

Offered: Summer.

RADT 309 - Clinical Education I (4)

In various clinical settings, students learn to produce appropriate radiographic images on all patient types. Technical factors are introduced. 16 contact hours.

Prerequisite: RADT 301.

Offered: Spring.

RADT 310 - Clinical Education II (8)

A continuation of RADT 309, this course includes routine radiographic procedures and technical factors. 32 contact hours.

Prerequisite: RADT 309.

Offered: Summer.

RADT 320 - Principles of Radiography I (3)

The discovery and properties of x-rays and the structure and function of x-ray tubes are discussed. The analysis of radiographic film quality is also explored.

Prerequisite: RADT 301.

Offered: Spring.

RADT 321 - Principles of Radiography II (3)

Topics include quality assurance testing, the evaluation of quality control tests, radiation monitoring, latent image formation, the use of intensifying screens, and automatic film processors.

Prerequisite: RADT 320.

Offered: Fall.

RADT 330 - Radiation Physics I (3)

Topics include the construction and function of x-ray tubes, the properties of x-ray emission spectra, photon interactions, and the clinical significance of photoelectric and Compton scattering.

Prerequisite: RADT 301.

Offered: Summer.

RADT 411 - Clinical Education III (8)

While reinforcing skills already learned, this clinical course focuses on advanced imaging procedures, including trauma and fluoroscopy procedures. 32 contact hours.

Prerequisite: RADT 310.

Offered: Fall.

RADT 412 - Clinical Education IV (6)

This final clinical course prepares students to become independent, functioning radiologic technologists. 24 contact hours.

Prerequisite: RADT 411.

Offered: Spring.

RADT 425 - Ethics/Critical Thinking and Problem Solving (2)

Topics include personal and professional values, professional standards, and legal liability in the workplace. Problem-solving techniques are taught to help students make competent, informed decisions.

Prerequisite: RADT 411.

Offered: Fall.

RADT 431 - Radiation Physics II (3)

Students explore electromagnetic and particulate radiation; tomography; radiosensitivity of different cell types; radiation sickness; radiation barriers; and federal, state, and local regulations concerning the use of radiation.

Prerequisite: RADT 330.

Offered: Spring.

RADT 455 - Comprehensive Radiographic Pathology (2)

A detailed, comprehensive pathology of organ systems relevant to radiologic technology is given.

Prerequisite: RADT 305.

Offered: Spring.

RADT 461 - Registry Review (3)

Students review the specifications of the American Registry of Radiologic Technologists exam, the guidelines for application, study strategies, and content included in the exam.

Prerequisite: RADT 411.

Offered: Spring.

# READ - Reading

READ 501 - Reading in the Content Areas (3)

Focus is on methods that help grade 6-12 students learn from subject-based texts, both fiction and non-fiction. Research-based vocabulary and comprehension strategies are emphasized.

Prerequisite: Graduate status or consent of instructor.

Offered: Fall.

READ 534 - Foundations in Literacy (3)

This course offers an overview of the components of literacy instruction, including phonological awareness, phonics, fluency, vocabulary, comprehension, and writing instruction. Foundational understandings of “the science of reading,” “structured literacy,” and “orthographic mapping” are built, foundational to the reading program/dyslexia endorsement.

Corequisite: To be taken concurrently with SPED546.

Offered: Summer.

READ 629 - Literacy Practicum for Assessment and Intervention (6)

Emphasis is on the diagnosis and treatment of reading difficulties for this intensive practicum experience. Students apply knowledge of assessment, data analysis, and literacy instruction in a six-week summer reading clinic.

Prerequisite: Graduate status, READ 534 and SPED 546.

Corequisite: Taken concurrently with READ 630.

Offered: Summer.

READ 630 - Literacy and the Community (2)

Methods and materials that inform families and administration about students’ strengths and areas of need are explored with the goal of building trusting relationships and shared responsibility with the community.

Prerequisite: Graduate status, READ 534 and SPED 546.

Corequisite: Taken concurrently with READ 629.

Offered: Summer.

READ 667 - Reading Specialist Coaching and the Administration of Reading Programs (3)

This course emphasizes the role of the reading specialist as a leader and change agent. Students examine the role of the coach in the teaching and learning of reading. Focus is on models of literacy coaching to effect change for improved literacy instruction. Roles and responsibilities in the administration of reading programs are discussed.

Prerequisite: Graduate status, enrollment in the M.Ed. in Reading program, READ 501,534, 629, 630, and SPED 546.

Offered: Spring.

READ 687 - Urban Literacies (3)

This course explores how literacy is tied to our identities and communities. Focus is placed on experiences and knowledge teachers must have to meet the needs of diverse learners. The definition of “literacy” is extended to include multiple perspectives, settings, forms, and voices.

Prerequisite: Graduate status and enrollment in the M.Ed. in Reading program; READ 501.

Offered: Summer.

READ 688 - Digital Literacy (3)

Intensive discourse exploring digital literacy that includes ethical and equality issues.

Prerequisite: Graduate status and enrollment in the M.Ed. in Reading program; READ 687.

Offered: Fall.

# RIC - Rhode Island College

RIC 100 - Introduction to RIC (1)

Students learn how to navigate college in general and RIC specifically, including such topics as time management, wellness, college expectations, note-taking, cultural competency and campus resources. Graded S/U.

Offered: Fall, Spring

# SED - Secondary Education

SED 201 - Introduction to Lesson Planning (2)

Teacher candidates are introduced to the processes and procedures of planning effective, culturally responsive lessons.

Prerequisite: FNED 246; concurrent with SED 202 or by permission of department chair.

Offered: Fall, Spring, Summer.

SED 202 - Introduction to Assessment (2)

Teacher candidates are introduced to the purposes, processes and procedures of assessment.

Prerequisite: FNED 246; concurrent with SED 201 or by permission of department chair.

Offered: Fall, Spring, Summer.

SED 301W - Discourses, Literacies and Technologies of Learning (2)

Candidates learn about educational policy discourses, engage in the literacy practices of their discipline and enhance their knowledge of digital literacies for teaching and communication. 5 hours clinical preparation. This is a Writing in the Discipline (WID) course.

Prerequisite: SED 201 and SED 202 (with minimum grade of B-), or permission of department chair; concurrent enrollment in SED 302 or SED 303, and fulfillment of retention requirements.

Offered: Fall.

SED 302 - Teaching and Learning: Humanities in Communities (2)

Candidates will learn to exercise a critical perspective on life and learning in underserved schools/neighborhoods. Candidates will work with local organizations, advocates and/or schools. 20 hours clinical preparation.

Prerequisite: Concurrent with SED 301; or permission of department chair.

Offered: Fall.

SED 303 - Inquiry into STEM (2)

Candidates learn about and engage in Science, Technology, Engineering and Mathematics activities that can be implemented in secondary math and science classrooms or with youth organizations. 20 hours clinical preparation.

Prerequisite: Concurrent with SED 301; or permission of department chair.

Offered: Fall.

SED 313 - Critical Writing and Teaching in Schools (4)

In this practicum course, candidates will learn tools and techniques for writing and teaching writing using the arts and digital literacies. Focus is on teaching non-native speakers of English.

Prerequisite: Successful completion of SED 301 and SED 302; English G.P.A. of 3.0.

Offered: Spring.

SED 314 - Responsive Social Studies Teaching/Learning I (4)

Teacher candidates examine secondary social studies teaching and learning in public schools, and create and deliver age-appropriate culturally responsive social studies lessons. Three weeks or equivalent practicum field experience.

Prerequisite: Admission to FSEHD (Secondary Education Social Studies or Secondary Education History/ Social Studies program). Successful completion of SED 301, SED 302; social studies/history content G.P.A. of 3.0 and overall G.P.A. of 2.75. Concurrent or prior successful completion of GEOG 200 and GEOG 401 or permission of instructor.

Offered: Spring.

SED 315 - Teaching Mathematics in a Diverse Classroom (4)

Students adapt mathematics knowledge into thoughtful, engaging, reform-based mathematics lessons to help all students learn using community-building, dialogic practices. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 303.

Offered: Spring.

SED 316 - Teaching Science, Society, and Technology (4)

Students examine reforms in science education and investigate the interactions amongscience, technology, and society.

Prerequisite: SED 303, and completed at least 28 credit hours of required and cognate courses in the major or have the consent of the program advisor.

Offered: Spring.

SED 406 - Instructional Methods, Design, and Technology (3)

Students learn the fundamentals of lesson design and methods for integrating instructional technology to enhance content area teaching and learning. Students design and present model lessons in a laboratory setting.

Prerequisite: Admission to a secondary education teacher preparation program or consent of department chair.

Offered: Fall, Spring.

SED 414 - Responsive Social Studies Teaching/Learning II (4)

Emphasis is on inquiry and project-based learning, assessment, critical thinking skills and culturally responsive curricula and pedagogy in secondary classrooms. Three weeks or equivalent practicum field experience.

Prerequisite: Successful completion of SED 314 with a grade of B- or higher. Social studies/content G.P.A. of 3.0, overall G.P.A. of 2.75.

Offered: Fall.

SED 407 - Instructional Methods, Design, and Literacy (3)

Students explore research-based reading and writing strategies for secondary education content teaching and apply these strategies by designing and presenting literacy instruction in a field-based setting.

Prerequisite: SED 406 (with minimum grade of B-) and fulfillment of retention requirements, or consent of department chair.

Offered: Fall, Spring.

SED 411 - Content and Pedagogy in Secondary Education (4)

Students examine principles, methods, content, and curriculum in the content area and prepare lessons and units that incorporate the needs of diverse learners and effective assessment strategies.

Prerequisite: SED 407 (with minimum grade of B-), concurrent enrollment in SED 412, and fulfillment of retention requirements.

Offered: Fall.

SED 412 - Field Practicum in Secondary Education (2)

Teacher candidates, under the supervision of college and clinical instructors, plan, develop, and implement lesson plans within middle/secondary clinical settings, drawing on content developed in SED 411. 4 contact hours.

Prerequisite: SED 407 (with minimum grade of B-), concurrent enrollment in SED 411, and fulfillment of retention requirements.

Offered: Fall.

SED 413 - Social Justice Teaching in English Education (4)

Students connect *critical* and *culturally relevant* pedagogies to everyday classroom strategies and techniques. Students will focus on community-building, dialogical methods and the teaching of reading. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 313.

Offered: Fall.

SED 415 - Rethinking Mathematics Teaching and Learning (4)

Students connect equitable pedagogical approaches to the teaching and learning of mathematics. Focus on mindsets, mathematical problem analysis, visualizing mathematics and incorporating social justice in the mathematics curriculum. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 315.

Offered: Fall.

SED 416 - Practicum in Secondary Science Education (4)

Students examine methods, content, and curriculum in the sciences to plan and implement lessons within middle/secondary classrooms

Prerequisite: SED 316.

Offered: Fall.

SED 420 - Introduction to Student Teaching (2)

Teacher candidates will participate in a three-week clinical preparation in the field. This induction phase will orient secondary education teacher candidates to their student teaching semester. Graded S, U.

Prerequisite: Concurrent enrollment in SED 421 and SED 422. To be admitted into SED 420, SED 421, and SED 422, the student must have completed all other required courses.

Cross-Listed as: TECH 420, WLED 420.

Offered: Early Spring

SED 421 - Student Teaching in the Secondary School (7)

In this culminating field experience, candidates complete a teaching experience in a PK-12 school under the supervision of cooperating teachers and college supervisors. This is a full-semester assignment. Students cannot receive credit for more than one of the following: SED 421, TECH 421, and WLED 421. Graded S, U.

Prerequisite: Concurrent enrollment in SED 420 and SED 422; completion of all program requirements and all required education courses, with a minimum grade of B, prior to student teaching; satisfactory completion of all courses in the major prior to student teaching; a recommendation from the practicum instructor; undergraduate, second degree, and RITE students must have a cumulative GPA of 2.50 a full semester prior to student teaching; graduate students must have a cumulative GPA of 3.00 a full semester prior to student teaching; undergraduate and second degree students must complete the community service requirement; passing score(s) on the Praxis II, approved mini-teacher candidate work sample; and a negative result from the required tuberculin test. To be admitted into SED 421, and SED 422, the student must have completed all other required courses.

Cross-Listed as: TECH 421, WLED 421.

Offered: Spring.

SED 422 - Student Teaching Seminar in Secondary Education (3)

This is an integrative and culminating experience in the professional program in secondary education. Students reflect on their initial experience as classroom teachers. Students cannot receive credit for more than one of the following: SED 420, TECH 420, and WLED 420.Graded S, U.

Prerequisite: Concurrent enrollment in SED 420 and SED 421. To be admitted into SED 420, SED 421, and SED 422, the student must have completed all other required courses.

Cross-Listed as: TECH 422, WLED 422.

Offered: Spring.

SED 445 - The Teaching of Writing in Secondary Schools (4)

Study includes the evaluation of aims and objectives, selection and organization of content, principles and methods of writing instruction, and current research and practice in the teaching of writing.

Prerequisite: Admission to the Secondary Education Teacher Preparation Program.

Offered: Fall, Spring.

SED 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: Fall, Spring.

SED 491 - Independent Study I (3)

Students develop a proposal that includes a description and rationale for their research project, a literature review, methodologies for data collection and analysis, a time line and a plan for presenting their findings.

Prerequisite: Acceptance into the educational studies honors program, and consent of instructor, department chair and dean.

Offered: Fall, Spring.

SED 492 - Independent Study II (3)

Students complete the research project begun in SED 490. For departmental honors, the project requires final assessment from the department.

Prerequisite: SED 491, good standing in the educational studies honors program, and consent of instructor, department chair and dean.

Offered: Fall, Spring.

SED 501 - Introduction to Lesson Planning ()

Teacher candidates are introduced to the processes and procedures of planning effective, culturally responsive lessons.

Prerequisite: Concurrent with SED 502 or by permission of department chair

Offered: Fall, Summer

SED 502 - Introduction to Assessment ()

**Teacher candidates are introduced to the purposes, processes and procedures of assessment.**

Prerequisite: Concurrent with SED 501 or by permission of department chair

Offered: Fall, Summer

SED 503 - Discourses, Literacies and Technologies of Learning ()

Candidates learn about educational policy discourses, engage in the literacy practices of their discipline, and enhance their knowledge of digital literacies for teaching and communication. 5 hours clinical preparation.

Prerequisite: SED 501 and SED 502 (with minimum grade of B-), or permission of department chair;

Offered: Spring, Summer

SED 505 - Inquiry into STEM ()

Candidates learn about and engage in Science, Technology, Engineering and Mathematics activities that can be implemented in secondary math and science classrooms or with youth organizations. 20 hours clinical preparation.

Prerequisite: Concurrent with SED 503 or consent of department chair

Offered: Spring

SED 506 - Survey of Instructional Design (3)

This course provides students with an in-depth overview of the theory and application of various methods of instructional design, including technology, assessment, and use of instructional materials.

Prerequisite: Graduate status.

Offered: Fall, Summer.

SED 507 - Instructional Design and Literacy (3)

This course provides students with research-based instructional design integrating reading and writing strategies for secondary education content teaching. A clinical experience is required.

Prerequisite: Graduate status and SED 506, or consent of department chair.

Offered: Spring Summer.

SED 510 - Mathematics Teaching in a Diverse Classroom (4)

Students adapt mathematics knowledge into thoughtful, engaging, reform-based mathematics lessons to help *all* students learn using community-building, dialogic practices. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 503 or permission of department chair.

Offered: Spring

SED 511 - Content and Pedagogy in Secondary Education (4)

Students examine principles, methods, content, and curriculum in the content area and prepare lessons and units that incorporate the needs of diverse learners and effective assessment strategies.

Prerequisite: Graduate status and SED 507, or consent of department chair.

Offered: Fall.

SED 512 - Field Practicum in Secondary Education (2)

Teacher candidates, under the supervision of college and clinical instructors, plan, develop, and implement lesson plans within middle/secondary clinical settings, drawing on content developed in SED 511.

Prerequisite: Graduate status and concurrent enrollment in SED 511, or consent of department chair.

Offered: Fall.

SED 514 - Secondary School Curriculum (3)

The development of a curriculum and the forces that modify it are examined in terms of the problems, needs, and trends involved. Recent curriculum developments are considered.

Prerequisite: Graduate status.

Offered: Spring (even years).

SED 515 - Rethinking Mathematics Teaching and Learning (4)

Students connect *equitable* pedagogical approaches to the teaching and learning of mathematics. Focus on mindsets, mathematical problem analysis, visualizing mathematics and incorporating social justice in the mathematics curriculum. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 510

Offered: Fall

SED 516 - Teaching and Learning: Humanities in Communities ()

Candidates will learn to exercise a critical perspective on life and learning in underserved schools and neighborhoods. Candidates will work with local organizations, advocates, and/or schools. 20 hours clinical preparation.

Prerequisite: Concurrent with SED 503; or permission of department chair

Offered: Spring

SED 517 - Critical Writing and Teaching in School ()

In this practicum course, candidates will learn tools and techniques for writing and teaching writing using the arts and digital literacies.  Focus is on teaching non-native speakers of English.

Prerequisite: Successful completion of SED 503 and 516; English GPA of 3.0

Offered: Spring

SED 518 - Social Justice Teaching in English Education ()

Students connect critical and culturally relevant pedagogies to everyday classroom strategies and techniques. Students will focus on community-building, dialogical methods and the teaching of reading. Clinical preparation (3 weeks or equivalent).

Prerequisite: SED 517

Offered: Fall

SED 519 - Professional Development for Cooperating Teachers (3)

Cooperating teachers gain knowledge, tools, and experience that help them prepare teacher candidates to meet professional requirements in K-12 education programs. This course may be repeated after four years. Hybrid course.

Prerequisite: Graduate status and currently serving as a cooperating teacher, or consent of department chair.

Offered: As needed.

SED 520 - Introduction to Student Teaching (3)

Teacher candidates will participate in a three-week clinical preparation in the field. This induction phase will orient secondary education teacher candidates to their student teaching semester.

Prerequisite: Concurrent enrollment in SED 521 and SED 522 or permission of department chair.

Offered: Spring

SED 521 - Student Teaching in Secondary Schools (7)

In this culminating field experience, candidates complete a teaching experience in a middle or senior high school under the supervision of cooperating teachers and college supervisors. This is a full-semester assignment.

Prerequisite: Graduate status, concurrent enrollment in SED 522; completion of all program requirements and all required education courses, with a minimum grade of B- prior to student teaching; satisfactory completion of all courses in the major prior to student teaching; a recommendation from the practicum instructor; graduate students must have a cumulative GPA of 3.00 a full semester prior to student teaching; passing score(s) on the Praxis II, approved Preparing to Teach Portfolio; and a negative result from the required tuberculin test.

Offered: Fall, Spring.

SED 522 - Student Teaching Seminar in Secondary Education (2)

This is an integrative and culminating experience in the professional program in secondary education. Students reflect on their initial experience as classroom teachers.

Prerequisite: Concurrent enrollment in SED 520 and SED 521

Offered: Spring.

SED 523 - Teaching Seminar in Secondary Education (3)

This is an integrative and culminating experience in the professional program in secondary education. Students reflect on their initial experiences as classroom teachers.

Prerequisite: Enrollement in R.I.C./TFA Secondary Education C.G.S. program.

Offered: Spring.

SED 527 - Foreign Languages in the Schools (3)

Focus is on more effective foreign language teaching at all levels. Recent research in methodology and educational media is examined, with particular reference to the contributions made by such areas as psychology and linguistics.

Prerequisite: Graduate status and completion of minimum academic requirements for certification in the discipline or consent of department chair.

Offered: As needed.

SED 529 - Mathematics in the Secondary Schools (3)

Emphasis is on the actual teaching of mathematics. Topics include current curriculum recommendations that affect methodology and the teacher's fundamental approach to mathematics.

Prerequisite: Graduate status and completion of minimum academic requirements for certification in the discipline or consent of department chair.

Offered: As needed.

SED 531 - Models of Instruction (3)

A variety of theory-based instructional models are examined and in the context of contemporary secondary school issues and reform efforts.

Prerequisite: Graduate status.

Offered: Spring.

SED 542 - English in Secondary Schools (3)

Study includes the evaluation of aims and objectives, selection and organization of content, principles and methods of English instruction, and current research in English instruction.

Prerequisite: Graduate status and completion of minimum academic requirements for certification in the discipline or consent of department chair.

Offered: As needed.

SED 543 - Social Studies in Secondary Schools (3)

Study includes the evaluation of aims and objectives, selection and organization of content, principles and methods of social studies instruction, and current research in social studies instruction.

Prerequisite: Graduate status and completion of minimum academic requirements for certification in the discipline or consent of department chair.

Offered: As needed.

SED 548 - Science Methods in Secondary Schools (3)

Focus is on five major areas relative to science instruction in the secondary schools. Discussion of each area is supplemented with library research.

Prerequisite: Graduate status and completion of minimum academic requirements for certification in the discipline or consent of department chair.

Offered: As needed.

SED 561 - Socio-cultural Theory, Education Policy, and Pedagogy (3)

Students examine the social and cultural construction of schooling and the implications of multiculturalism, school structure, and education policy.

Prerequisite: Admission to the M.Ed. program in advanced studies in teaching and learning or consent of department chair.

Offered: Fall.

SED 562 - Inquiry into Classroom Practice (3)

Students engage in systematic inquiry based on original data and standardized assessments of teaching and learning within educational settings.

Prerequisite: Admission to the M.Ed. program in advanced studies in teaching and learning and completion of SED 561 or consent of department chair.

Offered: Spring.

SED 563 - Educational Measurement and Assessment (3)

Students study quantitative and qualitative methods of conducting student and teacher assessments, uses of assessment data, role of standards and implications for instruction. Hybrid course.

Prerequisite: Graduate status and SED 562, or consent of department chair.

Offered: Summer.

SED 564 - Learning Theory and Student Engagement (3)

Students use multidisciplinary perspectives to examine individual, social, cultural and historical factors in learning, teaching and assessment practices. A case study is conducted.

Prerequisite: Graduate status and SED 563, or consent of department chair.

Offered: Fall.

SED 565 - Disciplinary Literacy and Curriculum Research (3)

Students examine the research, theory, and practice of multi-literacies in academic disciplines. A classroom-based field study is conducted.

Prerequisite: Graduate status and SED 564, or consent of department chair.

Offered: Spring.

SED 591-594 - Directed Research (1-4)

Under the direction of a member of the department faculty, students initiate a formal inquiry into an area of concern associated with their present professional responsibility. A maximum of four credit hours may be earned in this sequence.

Prerequisite: consent of department chair. Open only to students enrolled in the M.Ed. program in secondary education or the educational specialist programs

Offered: As needed.

# SSCI - Social Science

SSCI 310 - Africa (3)

The social and political structures and related problems of changing Africa are considered. Social science faculty members and visiting specialists may lecture in their fields of specialization.

Prerequisite: Any 200-level course in a social science.

Offered: As needed.

SSCI 311 - Latin America (3)

Changes in Latin American societies during the twentieth century are examined in terms of their geographic and historic origins and political, social, and economic implications. Social science faculty members and visiting specialists may lecture.

Prerequisite: Any 200-level course in a social science.

Offered: As needed.

SSCI 418 - Cultural Pluralism (3)

The nature and dynamics of cultural pluralism in American society are examined. Issues of identity, race, ethnicity, and class are explored. Students may receive credit for only one of the following: ANTH 418, SSCI 418, or SSCI 518.

Prerequisite: 6 credit hours in any of the social sciences disciplines or consent of department chair.

Offered: As needed.

SSCI 518 - Cultural Pluralism (3)

Students undertake graduate-level research on the nature and dynamics of cultural pluralism in American society. Students may receive credit for only one of the following: ANTH 418, SSCI 418, or SSCI 518.

Prerequisite: Graduate status and 6 credit hours at the 300 and/or 400-level in any of the social sciences disciplines, or consent of department chair.

Offered: As needed.

# SWRK - Social Work

SWRK 110 - Introduction to Human Services (3)

Students are introduced to the knowledge, values, and skills needed in human services. Issues of diversity, community resources, and the various arenas of human service practice are presented.

Prerequisite: Acceptance into the social and human service assistance certificate program.

Offered: Fall.

SWRK 111 - Basic Interviewing Skills for Human Service Assistance (1)

Students practice relationship building, interviewing and engagement skills. Classroom learning is integrated with practice experience. 2 contact hours.

Prerequisite: Acceptance into the social and human service assistance certificate program.

Offered: Fall.

SWRK 112 - Basic Writing Skills for Human Services (2)

This course provides students with a review of basic writing skills, an introduction to human services vocabulary and opportunities to write about issues related to social and human services. Graded S, U.

Prerequisite: Acceptance into the social and human service assistance certificate program.

Offered: Fall

SWRK 120 - Generalist Practice Skills for Human Services (3)

Focus is on generalist skills for human service work, which include assessing, planning, linking, monitoring, recording, and evaluating.

Prerequisite: Acceptance into the social and human service assistance certificate program.

Offered: Fall.

SWRK 200 - Introduction to Social Work (4)

Students learn about the profession of Social Work, focusing on skills, ethics of helping and fields of practice: child welfare, juvenile justice, elder services and mental health.

Offered: Fall, Spring, Summer.

SWRK 230 - Advanced Skills for Human Services (3)

Focus is on assessment and intervention practices in working with individuals, families, and groups.

Prerequisite: SWRK 110, SWRK 111, and SWRK 120.

Offered: Spring.

SWRK 260 - Integrative Seminar and Field Experience (4)

In this seminar, students share their fieldwork experiences. Emphasis is on the integration of theory and practice. Students also learn agency based writing skills. Graded S, U.

Prerequisite: SWRK 110, SWRK 111, and SWRK 120.

Offered: Spring.

SWRK 301 - Policy Analysis and Practice (4)

Students examine social welfare policies that shape professional practice and client oppression; they work on strategies that create policy change for vulnerable and marginalized populations.

Prerequisite: POL 202, SWRK 200, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 302W - Social Work Research Methods I (4)

Students learn about research process and methods in social work practice-related research. Students develop a research proposal including a problem statement, literature review and methods to be used. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of any mathematics or natural science general education distribution, and SWRK 200.

Offered: Fall, Spring, Summer.

SWRK 303 - Social Work Research Methods II (4)

Students develop data collection and analysis skills. Students conduct qualitative (single-subject case study) and quantitative (aggregate) data analyses, and learn strategies for using analytic software.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any mathematics general education distribution, and SWRK 302 or SWRK 302 W or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 306 - Biopsychosocial Perspectives for Social Workers (2)

Students explore biopsychosocial aspects of human behavior for social work practice. Includes the role of genetics, the brain and physiology in discussing disability, trauma, mental illness and substance abuse.

Prerequisite: Prior or concurrent enrollment in SWRK 200.

Offered: Fall, Spring, Summer.

SWRK 324 - Diversity and Oppression I (4)

Students discover interpersonal and systemic influences on human behavior, especially the impact of oppression on individuals’ opportunities and outcomes. The effects of sexism, heterosexism, transphobia, ageism and ableism are examined.

Prerequisite: PSYC 215, PSYC 230; SWRK 200; or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 325 - Diversity and Oppression II (4)

Students explore systemic inequality and oppression that contribute to social injustice within our political, educational and social institutions. The effects of racism, class oppression and immigration status are examined.

Prerequisite: POL 202, SWRK 200, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 326W - Generalist Social Work Practice (4)

Students explore social work roles, values and skills for practice with individuals and families, addressing concepts that underlie practice, including oppression and diversity. They begin developing interviewing and assessment skills. This is a Writing in the Discipline (WID) course.

Prerequisite: SWRK 200 and prior or concurrent enrollment in SWRK 324 and SWRK 325.

Offered: Fall, Spring.

SWRK 327 - Group and Community Practice (4)

Students focus on roles, values and skills working with groups, organizations and communities; explore concepts including power, privilege and social justice; and gain group facilitation and community change skills.

Prerequisite: Acceptance into the B.S.W. program, and SWRK 326 or SWRK 326W.

Offered: Spring, Summer.

SWRK 390 - Directed Study (1-3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. Structure and credit hours vary.

Prerequisite: Social work majors with junior or senior standing, and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 391 - Independent Study I (3)

Students conduct library and/or empirical research under the mentorship of a faculty member.

Prerequisite: Admission to social work honors program, and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 411 - Yoga and Mediation in Social Work Practice (3)

Students address the efficacy of  yoga and meditation with various populations and problems. Students develop their own practice and identify ways to apply these strategies to social work practice. Hybrid course

Prerequisite: Completion of at least 60 college credits or junior standing.

Offered: Summer.

SWRK 426 - Clinical Social Work: Theories/Models (4)

Students focus on the theoretical bases for therapeutic change and their application with diverse and marginalized individuals and families. Content explores best practice strategies for strengths-based relationships in multiple settings.

Prerequisite: SWRK 327 and concurrent enrollment in SWRK 436 and SWRK 463.

Offered: Fall.

SWRK 433 - Generalist Foundation and Skills: Direct Practice II (3)

This is a continuation of SWRK 532. Cannot get credit for SWRK 433 and SWRK 533.

Prerequisite: Acceptance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 437 and SWRK 464; or graduate status, SWRK 532, and concurrent enrollment in SWRK 501.

Cross-Listed as: SWRK 533.

Offered: Spring.

SWRK 432 - Generalist Foundation and Skills: Direct Practice I (3)

The values, knowledge and skills relevant to practice are discussed and integrated with fieldwork experience. Students cannot get credit for SWRK 432 and SWRK 532.

Prerequisite: Acceptance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 436 and SWRK 463; or graduate status and concurrent enrollment in SWRK 500.

Cross-Listed as: SWRK 532.

Offered: Fall.

SWRK 435 - Crisis Intervention and Brief Treatment (3)

Focus is on the application of theory and techniques used in crisis intervention and brief casework services. Students cannot receive credit for both SWRK 435 and SWRK 535.

Prerequisite: Concurrent enrollment in SWRK 436 or SWRK 437, or consent of department chair.

Offered: As needed.

SWRK 436 - Fieldwork (4)

Students work sixteen hours a week in a social work agency. Graded S, U.

Prerequisite: SWRK 302 or SWRK 302W, SWRK 327, SWRK 338, prior or concurrent enrollment in SWRK 301, and concurrent enrollment in SWRK 426 and SWRK 463. Open only to social work majors.

Offered: Fall.

SWRK 437 - Advanced Fieldwork (4)

Students work sixteen hours a week in a social work agency. Graded S, U.

Prerequisite: SWRK 426, SWRK 436, SWRK 463, and concurrent enrollment in SWRK 464. Open only to social work majors.

Offered: Spring.

SWRK 438 - Social Work Interventions in Substance Abuse (3)

Substance abuse assessment and intervention are explored using a systems framework. Emphasis is on the techniques used in community-based interventions. Students cannot receive credit for both SWRK 438 and SWRK 538.

Prerequisite: Senior standing and enrollment in field, or consent of department chair.

Offered: As needed.

SWRK 440 - Social Work Practice: Children, Youth, Families (1)

This is an introduction to the theory, research, and practice of evidence-based services for vulnerable children, youth, and families. Graded S, U.

Prerequisite: SWRK 326 or SWRK 326W, or consent of department chair.

Offered: Spring.

SWRK 454 - Social Work Practice with Older Adults (3)

Clinical and case management practice with older adults and their families is examined. Focus is on assessment, long-term and end-of life care, elder abuse and neglect, and spirituality. Students cannot receive credit for both SWRK 454 and SWRK 554.

Prerequisite: Senior standing or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 457 - Homelessness: Clinical and Policy Interventions I (3)

Students learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness**.**Students cannot receive credit for both SWRK 457 and SWRK 557.

Prerequisite: Senior standing or consent of department chair.

Cross-Listed as: SWRK 557.

Offered: Fall.

SWRK 458 - Homelessness: Clinical and Policy Interventions II (3)

Students continue to learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness. Students cannot receive credit for both SWRK 458 and SWRK 558.

Prerequisite: Senior standing and SWRK 457 or consent of department chair.

Cross-Listed as: SWRK 558.

Offered: Spring.

SWRK 463 - Fieldwork Seminar (3)

In this seminar, students share their fieldwork experiences. Emphasis is on the integration of theory and practice.

Prerequisite: SWRK 301, SWRK 302 or SWRK 302W, SWRK 327, and concurrent enrollment in SWRK 426 and SWRK 436.

Offered: Fall.

SWRK 464 - Senior Seminar in Social Work (3)

Policy and practice issues are explored in depth. Students build an integrated base of knowledge, values, and skills for entry into the social work profession.

Prerequisite: SWRK 301, SWRK 426, SWRK 436, SWRK 463, and concurrent enrollment in SWRK 437.

Offered: Spring.

SWRK 472 - Sexual Orientation and Gender Identity (3)

Focus is on lesbian, gay, bisexual, and transgender issues in the context of institutionalized oppression. Students cannot receive credit for both SWRK 472 and SWRK 572.

Prerequisite: Concurrent enrollment in field education or consent of department chair.

Offered: Spring Summer.

SWRK 490 - Directed Study (1-3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. Structure and credit hours vary.

Prerequisite: Social work majors with junior or senior standing and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 491 - Advanced Directed Study (3)

Students write an honors thesis under the mentorship of a faculty member. This course continues work from SWRK 391. For departmental honors, the project requires final assessment from the department.

Prerequisite: Admission to social work honors program, SWRK 391 and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 500 - Field Education and Seminar I (3)

Students work in a selected public or private nonprofit agency. Graded S, U. 16 contact hours.

Prerequisite: Acceptance into the M.S.W. program and concurrent enrollment in SWRK 532.

Offered: Fall.

SWRK 501 - Field Education and Seminar II (3)

This is a continuation of SWRK 500. Graded S, U. 16 contact hours.

Prerequisite: Graduate status, SWRK 500 and concurrent enrollment in SWRK 533.

Offered: Spring.

SWRK 511 - Yoga and Meditation in Social Work (3)

Student address the efficacy of yoga and meditation with various populations and problems. Students develop their own practice and identify ways to apply these strategies to social work practice. Hybrid course.

Prerequisite: Graduate status.

Offered: Summer.

SWRK 520 - Human Behavior, Diversity, and Oppression I (3)

Human behavior relevant to social work practice is examined. Focus is on stress, coping, adaptation, systems theory, personality theory, and stages of the life cycle from birth to death.

Prerequisite: Graduate status.

Offered: Fall.

SWRK 522 - Human Behavior, Diversity, and Oppression II (3)

This is a continuation of SWRK 520. Focus is on deviance, psychopathology, community and organizational theory, and ethical and value issues in social work. Also emphasized are cultural diversity, discrimination, and the needs of minorities.

Prerequisite: Graduate status and SWRK 520.

Offered: Spring.

SWRK 530 - Generalist Foundation and Skills: Policy and Organizing I (3)

Focuses are on social work policy and organizing to achieve social justice. Topics are approached from a problem-solving perspective.

Prerequisite: Matriculation into the M.S.W. program.

Offered: Fall, Summer.

SWRK 531 - Generalist Foundation and Skills: Policy and Organizing II (3)

This is a continuation of SWRK 530. Emphasis is placed on group task and process skills.

Prerequisite: Matriculation into the M.S.W. program.

Offered: Spring Summer.

SWRK 532 - Generalist Foundation and Skills: Direct Practice I (3)

The values, knowledge and skills relevant to practice are discussed and integrated with fieldwork experience. Students cannot get credit for SWRK 432 and SWRK 532.

Prerequisite: Graduate status and concurrent enrollment in SWRK 500, or acceptqance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 436 and SWRK 463.

Cross-Listed as: SWRK 432

Offered: Fall.

SWRK 533 - Generalist Foundation and Skills: Direct Practice II (3)

This is a continuation of SWRK 532. Cannot get credit for SWRK 433 and SWRK 533.

Prerequisite: Graduate status, SWRK 532 and concurrent enrollment in SWRK 501, or acceptance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 437 and SWRK 464.

Cross-Listed as: SWRK 433.

Offered: Spring.

SWRK 535 - Crisis Intervention and Brief Treatment (3)

Focus is on the application of theory and techniques used in crisis intervention and brief casework services. Students cannot receive credit for both SWRK 435 and SWRK 535.

Prerequisite: Graduate status, SWRK 520 or consent of department chair.

Offered: Spring Summer.

SWRK 538 - Social Work Interventions in Substance Abuse (3)

Substance abuse assessment and intervention are explored using a systems framework. Emphasis is placed on the techniques used in community-based interventions. Students cannot receive credit for both SWRK 438 and SWRK 538.

Prerequisite: Graduate status, SWRK 520 or consent of department chair.

Offered: Spring Summer.

SWRK 539 - Child Welfare Practice (3)

Focus is on child welfare practice. An ecosystems framework for family assessment is presented along with a problem-solving approach for intervention.

Prerequisite: Graduate status, SWRK 520 or consent of department chair.

Offered: Bi-annually.

SWRK 541 - Social Work Research and
Evaluation I (3)

Focus is on problem formulation, measurement, research design, evaluation of practice, and critical reading of empirical literature related to social work practice.

Prerequisite: Matriculation into the M.S.W. program.

Offered: Fall, Summer.

SWRK 542 - Social Work Research and Evaluation II (2)

This is a continuation of SWRK 541. Social work practice and programs are evaluated. Exemplars from practice are used as a basis for instruction in study design, data analysis techniques, and computer applications.

Prerequisite: Graduate status and SWRK 541.

Offered: Spring Summer.

SWRK 553 - School Social Work (3)

The role of the school social worker is presented from a strengths perspective. Intervention strategies for at-risk students and families are provided.

Prerequisite: Graduate status.

Offered: Bi-annually.

SWRK 554 - Social Work Practice with Older Adults (3)

Clinical and case management practice with older adults and their families is examined. Focus is on assessment, long-term and end-of-life care, elder abuse and neglect, and spirituality. Students cannot receive credit for both SWRK 454 and SWRK 554.

Prerequisite: Graduate status and consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 555 - Intimate Partner Violence and Sexual Assault (3)

Provides social workers an introduction to intimate partner violence and sexual assault, paying attention to clinical and policy practice implications.

Prerequisite: Graduate status and SWRK 520, or consent of department chair.

Offered: Annually.

SWRK 556 - Leadership in Health Professions (3)

Students learn about the importance of interprofessional teams, including team-building, leadership and effective communication. Information is applied to their roles as health care providers and administrators.

Prerequisite: Graduate status, SWRK 520 and consent of department chair.

Offered: Fall.

SWRK 557 - Homelessness: Clinical and Policy Interventions I (3)

Students learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness.

Prerequisite: Graduate status, or consent of department chair.

Offered: Fall.

SWRK 558 - Homelessness: Clinical and Policy Interventions II (3)

Students continue to learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness.

Prerequisite: Graduate status, SWRK 557, or consent of department chair.

Offered: Spring.

SWRK 559 - American Racism and Social Work (3)

This course provides students with information needed to recognize racial disparities in access to health care, housing, education, and employment faced by people of color with whom social workers interact.

Prerequisite: Graduate status, or consent of department chair.

Offered: Fall, Spring.

SWRK 572 - Sexual Orientation and Gender Identity (3)

Focus is on lesbian, gay, bisexual, and transgender issues in the context of institutionalized oppression. Students cannot receive credit for both SWRK 472 and SWRK 572.

Prerequisite: Graduate status and concurrent enrollment in field education, or consent of department chair.

Offered: Fall.

SWRK 600 - Field Education and Seminar III (4)

This second year of field placement and seminar focuses on the advanced method(s) and concentration chosen by the student. 20 contact hours.

Prerequisite: Second-year standing in the M.S.W. program and concurrent enrollment in SWRK 602.

Offered: Fall.

SWRK 601 - Field Education and Seminar IV (4)

This is a continuation of SWRK 600. Graded S, U. 20 contact hours.

Prerequisite: Graduate status, SWRK 600 and concurrent enrollment in SWRK 603.

Offered: Spring.

SWRK 602 - Clinical Social Work Practice I (3)

Issues in advanced clinical practice are examined from a strengths-based perspective. Emphasis is on skill development, using several theoretical and practice perspectives. Graded S, U.

Prerequisite: Second-year standing in the M.S.W. program.

Offered: Fall.

SWRK 603 - Clinical Social Work Practice II (3)

Practice perspectives are applied to diverse problems, including substance use, violence, and grief and loss. Strategies for working in interdisciplinary teams are explored.

Prerequisite: Second-year standing in the M.S.W. program.

Offered: Spring.

SWRK 609 - Advanced Professional Development (4)

Students integrate advanced concepts of social work ethics, cultural and social diversity, and social welfare policy into a project related to their primary area of interest.

Prerequisite: Graduate status, SWRK 500, SWRK 501, SWRK 532, and SWRK 533

Offered: Fall, Spring, Summer.

SWRK 621 - Social Work and the Political Economy (3)

Students explore diverse economic approaches, their strengths and limitations in meeting human needs, and the use of these approaches in the student's role as administrator and policy advocate.

Prerequisite: Second-year standing in the M.S.W. program or consent of department chair.

Offered: Annually.

SWRK 622 - Foundations of Community Development and Organization (3)

Conceptual frameworks and methods associated with community development and community organizing are presented. Citizen/consumer participation in planning, development, and implementation of public, nonprofit and grassroots interventions are analyzed.

Prerequisite: Second-year standing in the M.S.W program or consent of department chair.

Offered: Annually.

SWRK 623 - Budgeting and Financial Management in Social Service Organizations (3)

Skills, tools, and strategies to achieve organizational financial stability will be examined. Ethics, politics, power, and controls in budget and financial processes will be explored.

Prerequisite: Second-year standing in the M.S.W program or consent of department chair.

Offered: Summer.

SWRK 625 - Social Work Practice with Groups (3)

The theory and experience necessary for understanding group dynamics and developing effective group skills are introduced.

Prerequisite: Second-year standing in the M.S.W. program.

Offered: Fall, Summer.

SWRK 628 - Macro Practice I: Leadership and Change (3)

Students gain understanding of leadership theory and practice and also focus on use of leadership skills to guide development of progressive organizational change.

Prerequisite: Second-year standing in the M.S.W. program or consent of department chair.

Offered: Fall.

SWRK 629 - Macro Practice II: Managing People and Programs (3)

Students learn human resource management skills through exploring current trends in social service settings. Learning is then focused on program and grant development principles and strategies.

Prerequisite: Second-year standing in the M.S.W. program or consent of department chair.

Offered: Spring.

SWRK 630 - Family Practice: Models (3)

Current conceptual models of family practice are examined. Emphasis is on the application of assessment and intervention in diverse family systems.

Prerequisite: Clinical or dual concentration student, with second-year standing in the M.S.W. program, or consent of department chair.

Offered: Bi-annually.

SWRK 635 - Social Work Practice with Trauma Clients (3)

Students gain a theoretical and experiential base in dealing with various treatment modalities. Commonalities and differences are explored in the experiences of traumatized populations.

Prerequisite: Clinical or dual concentration student, with second-year standing in the M.S.W. program, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 636 - Differential Diagnosis in Clinical Social Work (3)

Assessment methods used for diagnosing clients across a variety of clinical settings are explored. Emphasis is on advanced interviewing skills that promote accurate evaluations.

Prerequisite: Second-year standing in the M.S.W. program and participation in the clinical or dual concentration.

Offered: Fall, Summer.

SWRK 637 - Core Concepts in Child and Adolescent Trauma (3)

This course will introduce students to the common concepts (general theory and foundational knowledge) which inform evidence-based assessment and intervention with traumatized children and adolescents.

Prerequisite: SWRK 500, SWRK 532 and second-year standing in the M.S.W. program.

Offered: Summer or Fall.

SWRK 638 - Evidence-based Treatment for Child/Adolescent Trauma (3)

This course will highlight the role of evidenced-based outcomes research when choosing trauma treatment models for children, adolescents and their families. Three models of trauma treatment will be covered.

Prerequisite: SWRK 500, SWRK 532 and second year standing in the MSW program.

Offered: Fall or Spring.

SWRK 644 - Clinical Evaluation and Case Consultation I (1.5)

Students assess client needs, develop treatment plans, monitor goal attainment, measure client satisfaction, and examine clinical processes and program outcomes. Graded S, U.

Prerequisite: Second-year standing in the M.S.W. program.

Offered: Fall.

SWRK 645 - Needs Assessment and Program Evaluation I (1.5)

Methods for assessing community needs and evaluating social service programs are provided. Students complete either a community asset map or an organizational assessment. Graded S, U.

Prerequisite: Second-year standing in the M.S.W. program.

Offered: Fall.

SWRK 646 - Clinical Evaluation and Case Consultation II (1.5)

This is a continuation of SWRK 644. Students complete individual assessment, intervention, and clinical evaluation projects. Graded S, U.

Prerequisite: Graduate status and SWRK 644.

Offered: Spring.

SWRK 647 - Needs Assessment and Program Evaluation II (1.5)

Students conduct program evaluations, prepare reports of findings, and present their projects. The benefits and drawbacks of staff versus external consultant evaluations are discussed. Graded S, U.

Prerequisite: Graduate status and SWRK 645.

Offered: Spring.

SWRK 649 - Clinical Practice with Military Connected Clients (3)

Students utilize clinical methods to assess, diagnose and treat military stressors and trauma. Military culture is explored and the need for competent clinical practice is emphasized.

Prerequisite: Graduate status in counseling program or second year status in M.S.W. program; CEP 543 or equivalent assessment course recommended; or consent of department chair.

Cross-Listed as: CEP 649

Offered: Spring.

SWRK 654 - Clinical Practice in Integrated Healthcare (3)

This course will introduce students to the practice of integrated behavioral health care in primary care with an emphasis on knowledge and skills to deliver evidence-informed interventions in this setting.

Prerequisite: Second-year standing the M.S.W. program, or consent of department chair.

Offered: Summer.

SWRK 655 - Mental Health and Substance Use Disorders (3)

This course will provide tools and information that enable students to apply principles of recovery-oriented care, strengths-based assessment, and medication to support the whole-person recovery of individuals with co-occurring disorders. 

Prerequisite: Second year standing in the M.S.W. program; permission from M.S.W. chair for non-M.S.W. students.

Offered: Summer

SWRK 690 - Independent Study in Social Work (3)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Second-year standing in the M.S.W. program or consent of department chair.

Offered: As needed.

# SOC - Sociology

SOC 200 - Introduction to Sociology (4)

Contemporary society is studied through a sociological perspective. Using innovative learning experiences, students are given a basic understanding of sociological concepts and their application to everyday life.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

SOC 202 - The Family (4)

The family is studied as a social institution, with emphasis on its role in American society, socialization, family roles, and interaction. Historical, cross-cultural, and subcultural materials are used.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

SOC 204 - Urban Sociology (4)

Urban and suburban life in the context of rural/urban differences and models of metropolitan growth are explored. Topics include cultural variety, racial and ethnic diversity, congestion, crime, poverty, and population growth and shifts.

General Education Category: Social and Behavioral Sciences.

Offered: As needed.

SOC 207 - Crime and Criminal Justice (4)

This is an introduction to crime, delinquency, and the criminal justice system. The nature, extent, causes of crime, and forms of criminal expression are examined.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

SOC 208 - The Sociology of Race and Ethnicity (4)

Examination of race and ethnicity in historical and contemporary perspectives. Topics include racial and ethnic identity, discrimination and conflict and cooperation among racial and ethnic groups.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

SOC 217 - Sociology of Aging (4)

Students are introduced to sociological concepts and principles through the study of aging in society Topics include retirement, employment, housing, income, health care, and contributions of older adults to society.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

SOC 262 - Sociology of Money (4)

Spending and saving are analyzed on the institutional background of money creation and circulation. The issues are approached from a variety of perspectives represented in scholarly literature. This course will not count toward the sociology major.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

SOC 264 - Sex and Power: Global Gender Inequality (4)

The unequal access of women and men to socially valued resources is explored through the lens of race, class, and ethnicity, and from cross-cultural and historical perspectives. This course will not count toward the sociology major.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring

SOC 267 - Comparative Perspectives on Higher Education (4)

Comparative interdisciplinary exploration of contemporary and historical issues in higher education. Uses the RIC experience as a case study for analyzing current controversies around colleges and universities.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Even years.

SOC 268 - Genocide, Atrocity and Prevention (4)

Students use case studies to explore the premise that genocides and other mass atrocities are processes and apply this framing to open critical space for discussions about prevention. This course will not count toward the sociology major.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

SOC 300 - Classical Sociological Theories (4)

The development and functions of sociological theory in its historical, social, and scientific contexts are studied. Also analyzed are the more important theories from those of Comte to the early Parsons.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring.

SOC 302W - Social Research Methods (4)

Social research methods are examined, with emphasis on the connection between theory and research, values and ethical issues in research, study design, conceptualization, measurement, and methods of data collection. This is a Writing in the Discipline (WID) course.

General Education Category: Gen. Ed. Advanced Quantitative/Scientific Reasoning.

Prerequisite: Any 200-level sociology course and completion of Mathematics Gen. Ed. distribution requirement, or consent of department chair.

Offered: Fall, Spring, Summer.

SOC 303 - Fountain of Age (4)

The impacts of aging at the individual, interactional, and societal level are examined, with ethical, public policy and economic challenges considered. Historical, cross-cultural and gender variations in aging are explored. Students cannot receive credit for both GRTL 303 and SOC 303, or SOC 261.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: As needed.

SOC 306 - Work and Organizations (4)

In analyzing the goals, operation, and impact of modern organizations, students consider such characteristics as bureaucratization, work and employment, and organizational change.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: As needed.

SOC 314 - The Sociology of Health and Illness (4)

Topics include the influence of the social and economic environment on health and disease, and social-cultural forces affecting medicine.

Prerequisite: Completion of any 200 level course in a social/behavioral science or consent of department chair.

Offered: Annually.

SOC 315 - Service Learning in the Community (4)

Interactive learning is pursued through field experience or applied research that produces service to the community.

Prerequisite: Any 200-level sociology course or completion of at least 45 college credits and consent of department chair.

Offered: As needed.

SOC 316 - Sociology of Education (4)

The school is examined as one of the major institutions in contemporary society concerned with the socialization of children (and adults).

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: As needed.

SOC 317 - Politics and Society (4)

Relationships of power and authority and their social foundations are examined. Students may receive credit for only one of the following: HIST 317, POL 317, and SOC 317.

Prerequisite: POL 204 or consent of department chair.

Offered: Spring.

SOC 318 - Law and Society (4)

Law as a social institution is examined. Attention is given to theories of law; law as it relates to social control and social change; the organization, making, implementation, and impact of law; and the profession and practice of law.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring.

SOC 320 - Aging and the Law (4)

Students examine the major laws affecting the older population (e.g., Social Security), as well as programs and policies stemming from these laws.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Annually.

SOC 324 - Immigration and Justice (4)

Students will study the sociological perspective on global migration, including factors driving movement, impacts on sending & receiving countries & on migrants themselves, assimilation, & legal regimes governing migration.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Annually.

SOC 321 - Sociology of the Body (4)

A sociological analysis of bodily experiences, emphasizing the impact of gender, race, class and sexuality across a range of phenomena from body adornment and modification to illness and disability.

Prerequisite: Any 200-level sociology course or consent of the department chair.

Offered: Annually.

SOC 333 - Comparative Law and Justice (4)

Systems of law and justice are examined in prestate and state societies to understand the operation of law and justice in cross-cultural contexts and the United States. Students cannot receive credit for both SOC 333 and ANTH 333.

Prerequisite: Any 100- or 200-level course in a social science.

Offered: Fall, Spring.

SOC 340 - Police and Policing (4)

The philosophy, history, and practice of law enforcement are examined. Organization and jurisdiction of local, state, and federal law enforcement agencies and their roles in the administration of criminal justice are explored.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring, Summer.

SOC 341 - Sociology of Punishment (4)

Students engage in critical analysis of punishment practices and theories, including rationales of punishment and alternatives to incarceration such as restorative justice and rehabilitative approaches.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring, Summer.

SOC 342 - Women, Crime, and Justice (4)

Focus is on women's experiences with crime, justice, and the law. Topics include an overview of American laws that affect women, the impact of social movements on justice for women, women and crime, and women in the criminal justice system.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring.

SOC 343 - Juveniles and Justice (4)

The impact of juvenile status on the rights of the individual, the historical and philosophical foundations of the juvenile justice system, and its current organization and administration are examined.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: As needed.

SOC 344 - Race and Justice (4)

Focus is on the intersection of race with crime, justice and the law. Considers whether there is institutionalized bias towards specific racial groups in the legal and criminal justice systems.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring.

SOC 345 - Victimology (4)

Topics such as the victimization of individuals and groups by crime, the criminal justice system, terrorism, and the abuse of power are examined.

Prerequisite: Any 200-level sociology course or consent of department chair.

Offered: Fall, Spring, Summer.

SOC 362W - Theories of Crime Seminar (4)

Students examine theories of delinquent and criminal behavior.  Relevant social policy is explored through intensive writing and analysis. This is a Writing in the Discipline (WID) course.

Prerequisite: SOC 207, 45 credits or consent of department chair.

Offered: Fall, Spring.

SOC 390 - Directed Study (3-4)

Designed to be a substitute for a traditional course under the instruction of a faculty member. This course may be repeated with a change in topic.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

SOC 400 - Contemporary Sociological Theories (4)

The development of sociological theory in its historical and social contexts since the early work of Parsons is explored. Also analyzed are contemporary schools of theory and representative theorists.  .

Prerequisite: SOC 300.

Offered: Fall, Spring.

SOC 404 - Social Data Analysis (4)

Students develop skill in the preparation, analysis, and interpretation of data and in the use of technology in the research process. Lecture and laboratory. 4 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Any 200-level sociology course; POL 300 or SOC 302; and any Gen. Ed. Mathematics course, or consent of department chair.

Offered: Fall, Spring, Summer.

SOC 435 - Fieldwork in Sociology ()

Students will get hands-on experience using sociology in the field as part of an experiential learning process, such as through service learning or applied research, under an instructor’s supervision. 4-16 contact hours.

Prerequisite: Completion of at least 30 college credits with a minimum 2.5 GPA or graduate status, and consent of Instructor or Department Chair. Some fieldwork sites may have additional requirements.

Offered: As needed.

SOC 460W - Senior Seminar in Sociology (4)

This is an integrating experience for the sociology major. This is a Writing in the Discipline (WID) course.

Prerequisite: 20 credit hours of sociology courses, including SOC 300, SOC 404, and concurrent enrollment in or completion of SOC 400, and a minumum 2.0 G.P.A., or consent of department chair.

Offered: Fall, Spring.

SOC 490 - Independent Study in Sociology (3-4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

SOC 491 - Independent Study I (4)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the sociology honors program.

Offered: As needed.

SOC 492 - Independent Study II (4)

This course continues the development of research or activity begun in SOC 491. For departmental honors, the project requires final assessment from the department.

Prerequisite: SOC 491 and consent of instructor, department chair and dean.

Offered: As needed.

SOC 501 - Professional Writing for Justice Services (4)

Students will learn effective writing techniques using critical thinking and cultural competency practices to support careers in criminal justice, related social services and disciplinary academic work.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

SOC 504 - Advanced Quantitative Analysis (4)

The analysis of quantitative data is covered, including sample- and population-based datasets, with an emphasis on multivariate linear and logistic regression and the development of data displays.

Prerequisite: Graduate status and undergraduate courses in research methods and statistics, or consent of department chair.

Offered: Spring.

SOC 509 - Advanced Criminological Theory (4)

In-depth study of classical and contemporary theories, including criminology and victimology, with application to contemporary issues in the field.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

SOC 532 - Advanced Qualitative Methods (4)

Students collect and analyze interview and observational data. Skills include the writing of field notes, interview techniques and inductive analytical procedures.

Prerequisite: Graduate status and undergraduate courses in research methods and statistics, or consent of department chair.

Offered: Spring.

SOC 533 - Evaluation Research (4)

Students learn research design, data collection and analysis in applied settings, with a focus on using methods of formative and summative evaluation and assessment.

Prerequisite: Graduate status and undergraduate courses in research methods and statistics, or consent of department chair.

Offered: As needed.

SOC 536 - Current Legal Issues (4)

An analysis of current legal issues facing the justice system, such as issues relating to criminal trials, punishment, family law, surveillance and civil rights.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

SOC 551 - Topics in Criminology (4)

Focus is on topics in the study of criminology. May be repeated once for credit with a change in topic.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

SOC 552 - Topics in Stratification (4)

Focus is on topics in the study of in the study of social stratification as impacting justice systems. May be repeated once for credit with a change in topic.

Prerequisite: Graduate status or consent of department chair.

Offered: Asneeded.

SOC 553 - Topics in the Sociology of Law (4)

Focus is on topics in the study of the sociology of law. May be repeated once for credit with a change in topic.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

SOC 554 - Topics in Social Problems (4)

Focus is on topics in the sociological study of social problems. May be repeated once for credit with a change in topic.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

SOC 591 - Directed Readings (1)

Under the supervision of a faculty member, the student engages in intensive readings on a specific topic relevant to justice studies.

Prerequisite: Graduate status and SOC 501, SOC 504, SOC 509, and consent of the instructor and department chair.

Offered: As needed.

SOC 592 - Masters Thesis (3)

Students conduct a quantitative or qualitative empirical study. May be repeated once for a maximum of 6 credits.

Prerequisite: Graduate status and SOC 501, SOC 504, SOC 509, completion of 8 additional credits in the program, thesis committee approval, good standing (see Graduate Manual) and consent of department chair and dean.

Offered: As needed.

SOC 593 - Final Project (3)

Students undertake an applied research or evaluation project under the supervision of a faculty member.

Prerequisite: Graduate status and SOC 501, SOC 504, SOC 509, completion of 8 additional credits in the program, good standing (see Graduate Manual), and consent of department chair and dean.

Offered: As needed.

# SPAN - Spanish

SPAN 101 - Elementary Spanish I (4)

Students learn to understand, speak, read, and write in Spanish and gain an understanding of Hispanic life and character. Online work is required. Not open to students who have admission credit in Spanish.

Offered: Fall, Spring, Summer.

SPAN 102 - Elementary Spanish II (4)

Four skills in elementary Spanish—listening, speaking, reading, and writing—are further developed within the context of Hispanic culture. Online work is required.

General Education Category: Satisfies Gen. Ed. language requirement.

Prerequisite: SPAN 101 or placement test or consent of department chair.

Offered: Spring Summer.

SPAN 113 - Intermediate Spanish (4)

The cultural and linguistic heritage of the Spanish-speaking world is examined, while grammar is reviewed and basic oral and written skills are developed. Online work is required.

Prerequisite: SPAN 102 or placement test.

Offered: Fall, Spring, Summer.

SPAN 114 - Readings in Intermediate Spanish (4)

Emphasis is on the development of reading Spanish and on the appreciation of literature as a reflection of the heritage of the Hispanic peoples. Attention is given to written practice.

Prerequisite: SPAN 113 or equivalent, or a score of 550-599 on the CEEB Achievement Test in Spanish, or consent of department chair.

Offered: Fall, Spring, Summer.

SPAN 115 - Literature of the Spanish-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from Spain and Latin America as they continue to develop speaking, reading, and writing skills in Spanish.

General Education Category: Literature.

Prerequisite: SPAN 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

SPAN 201W - Conversation and Composition (4)

The use of correct spoken Spanish on an advanced level is emphasized. Attention is given to the correction of pronunciation through practice and elementary work in phonetics. This is a Writing in the Discipline (WID) course.

Prerequisite: SPAN 115 or placement test or consent of department chair.

Offered: Fall, Spring.

SPAN 202W - Composition and Conversation (4)

Writing skills in Spanish are developed through grammatical exercises, controlled composition, original themes, and the stylistic analysis of literary texts. Discussions in Spanish of the written materials provide oral practice. This is a Writing in the Discipline (WID) course.

Prerequisite: SPAN 201 or SPAN 201W, or equivalent or consent of department chair.

Offered: Fall, Spring.

SPAN 310 - Spanish Literature and Culture: Pre-Eighteenth Century (4)

The cultural, social, and historical aspects that define Spanish identity are examined from its inception to the end of the seventeenth century. In addition, the major literary currents associated with each period are studied.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Fall.

SPAN 311 - Spanish Literature and Culture: From Eighteenth Century (4)

The cultural, social, and historical aspects that define Spanish identity are examined from the eighteenth century to the modern period. The major literary currents associated with each period are also studied.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Spring.

SPAN 312 - Latin American Literature and Culture: Pre-Eighteenth Century (4)

The history, culture, and literary movements of Latin America are examined from the pre-Columbian period to the wars of independence.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Fall.

SPAN 313 - Latin American Literature and Culture: From Eighteenth Century (4)

The history, culture, and literary movements of Latin America are examined from the eighteenth century to modern times.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Spring.

SPAN 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

SPAN 401 - Studies in Hispanic Prose (3)

Topics and materials are selected from the Spanish or Spanish American essay, short story, or novel and may include a study of a particular genre, movement, period, theme, or writer. This course may be repeated for credit with a change in content.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Alternate Falls.

SPAN 403 - Studies in Hispanic Theatre/Film (4)

Topics and materials are selected from Spanish or Spanish American film. The instructor may select for study any period, school, movement, or director. This course may be repeated for credit with a change in content.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Alternate Springs.

SPAN 420W - Applied Grammar (3)

A practical application of grammar in both oral and written forms is emphasized, along with intensive study of construction and of idiomatic expressions. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Spring.

SPAN 460W - Seminar in Spanish (3)

Focus is on intensive individual and group study of literary, philosophical, historical, political, social, or aesthetic problems. Students submit a major paper as a culmination of the semester's work. May be repeated for credit with a change in content. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313, and one 400-level course.

Offered: Annually.

SPAN 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the spanish honors program.

Offered: As needed.

SPAN 492 - Independent Study II (3)

This course continues the development of research or creative activity begun in SPAN 491. For departmental honors, the project requires final assessment by the department.

Prerequisite: SPAN 491 and consent of instructor, program director and dean.

Offered: As needed.

SPAN 501 - Studies in Hispanic Fiction (3)

Topics and materials are selected from significant periods or movements of the Spanish or Spanish American novel or short story. With consent of the department chair, this course may be repeated for credit with a change in content.

Prerequisite: Graduate status.

Offered: As needed.

SPAN 503 - Studies in the Hispanic Theatre (3)

Topics and materials are selected from a major movement of Spanish and Spanish American drama. With consent of the department chair, this course may be repeated for credit with a change in content.

Prerequisite: Graduate status.

Offered: As needed.

SPAN 504 - Studies in Hispanic Poetry (3)

Focus is on the definition, social function, and spiritual character of poetic creation as it relates to historical and artistic topics. With consent of the department chair, this course may be repeated for credit with a change in content.

Prerequisite: Graduate status.

Offered: As needed.

SPAN 520 - Applied Grammar (3)

Students study advanced subtleties of the Spanish language and refine their knowledge of Spanish grammar, syntax, vocabulary, and stylistics through readings and literary and technical translation.

Prerequisite: Graduate status in Spanish or consent of department chair.

Offered: Spring.

SPAN 560 - Graduate Seminar in Spanish (3)

Students engage in intensive individual and group study of one major author or any important period in the development of Spanish or Spanish American literature. A major paper in thesis form is required. This course may be repeated for credit with a change in content.

Prerequisite: Open only to students in the graduate program.

Offered: Fall, Spring.

SPAN 590 - Directed Study (3)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor. A major paper in thesis form is required.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed.

# SPED - Special Education

SPED 202W - Teaching All Learners: Foundations and Strategies (4)

Teaching skills and strategies effective for diverse learners are presented and practiced; principles and practices addressing intellectual, physical, behavioral and cultural differences among children are discussed. Assigned practicum required. Students cannot receive credit for both SPED 202 or SPED 202W and ELED 202 or ELED 202W. This is a Writing in the Discipline (WID) course.

Prerequisite: FNED 101 and FNED 246, with a minimum grade of B-, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Spring.

SPED 210W - Supporting Social, Emotional and Behavioral Learning (4)

Teacher candidates examine principles and procedures for supporting social, emotional and behavioral needs of preschool through secondary level students across a multi-tiered system of support. Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Fall, Spring.

SPED 211 - Supporting Students with Communication Needs (3)

Emphasis is placed on the processes of language development in children. Teacher candidates consider specific techniques for enhancing language development in children with special needs.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, or consent of department chair.

Offered: Fall, Spring.

SPED 300 - Introduction to the Characteristics and Education of Children and Youth with Disabilities (4)

The educational implications of intellectual, physical, and behavioral differences among children are discussed. Definitions, characteristics, etiologies, incidence, and educational provisions are also examined. An assigned practicum is included.

Offered: Fall, Spring.

SPED 301 - Inclusive Early Childhood Special Education (3)

Teacher candidates explore policy on early childhood special education and recommended practices to support the diverse needs of young children with exceptionalities and their families in inclusive environments.

Prerequisite: Admission to the FSEHD Early Childhood Education program or consent of the department chair.

Offered: Fall, Spring.

SPED 305 - Supporting Infants/Toddlers with Special Needs (3)

Students learn history and current policy regarding special education and early intervention. Recommended practices and processes to effectively support infants and toddlers with special needs and their families are studied.

Prerequisite: Admission to the FSEHD ECED Program/Concentration, Birth to Three.

Offered: Fall.

SPED 312W - Assessment Procedures for Students with Special Needs (4)

Teacher candidates examine principles and procedures of educational assessment for preschool through secondary level students across multi-tiered systems of supports.  Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, and admission into the elementary and special education B. S. programs, or consent of department chair.

Offered: Fall, Spring.

SPED 333 - Introduction to Special Education: Policies/Practices (3)

Special education policies/practices will be addressed. General educator candidates explore specific teaching strategies and legal/ethical implications for working with students/families with exceptionalities.

Prerequisite: Admission to and retention in a teacher preparation program; successful prior enrollment in ARTE 302, HPE 300, HPE 301, MUSE 212, SED 202, TECH 305 or TECH 300, WLED 201 or consent of department chair.

Offered: Fall, Spring.

SPED 412W - Intensive Intervention in Literacy (4)

Teacher candidates examine assessment, curriculum and methodology for providing intensive intervention in literacy to students with language-based learning differences. Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: ELED 324, ELED 326, SPED 210, SPED 211, and SPED 312, or consent of department chair.

Offered: Fall, Spring.

SPED 415 - Assessment/Instruction with Young Exceptional Children (3)

An array of curriculum and instructional approaches for serving infants, preschool and early elementary children with disabilities in inclusive contexts are examined. Topics include assessment, evidence-based instruction and curriculum design/adaptations.

Prerequisite: SPED 301 or consent of department chair.

Offered: Fall.

SPED 424 - Assessment/Instruction: Adolescents with Mild/Moderate Disabilities (4)

Assessment and instructional approaches for adolescents with mild/moderate disabilities at the middle grades or secondary level are analyzed. Thirty hour practicum required.

Prerequisite: SPED 300, SPED 310, SPED 312 or SPED 312W, admission to the Department of Special Education or consent of the department chair.

Offered: Spring.

SPED 427 - Career/Transition Planning for Adolescents (3)

Teacher candidates focus on career and transition planning for adolescents with special needs at the middle grades or secondary level. Observation/field experience required.

Prerequisite: SPED 300, SPED 310, SPED 312 or SPED 312W, admission to the Department of Special Education, or consent of department chair.

Offered: Spring.

SPED 428 - Student Teaching at the Secondary Level (10)

In this culminating field experience, candidates complete a teaching experience in an elementary or middle school under the supervision of a cooperating teacher and college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Concurrent enrollment in SPED 440; satisfactory completion of the admission and retention requirements for the special education and the elementary or secondary education programs; passing score(s) on the Praxis II; approved Preparing to Teach Portfolio; completion of the community service requirement; and a negative result from the required tuberculin test. A cumulative GPA of 2.50 a full semester prior to student teaching; M.A.T. candidates must have a cumulative GPA of 3.00 a full semester prior to student teaching.

Offered: Fall, Spring.

SPED 433 - Special Education: Best Practices and Applications (3)

Primary learner characteristics guide lesson planning, instruction and assessment to address the strengths/needs of students with exceptionalities. Focused field experiences in special education are required.

Prerequisite: Admission to and retention in a teacher preparation program; ELED 202 or SPED 202 or SPED 333, or consent of department chair.

Offered: Fall, Spring.

SPED 435 - Assessment/Instruction: Young Students with SID (4)

This is an analysis of assessment, methodology, curriculum, instructional procedures, and adaptations of materials and strategies for children with significant special needs. Thirty hours of an assigned practicum are included. Teacher candidates analyze assessment, methodology, curriculum, instructional procedures and adaptations of materials and strategies for children with significant special needs. Thirty hours of an assigned practicum are included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 210 or SPED 210W, SPED 312 or SPED 312W, or consent of department chair.

Offered: Spring.

SPED 436 - Assessment/Instruction: Older Students with SID (4)

Assessment, methodology, teaching strategies, curriculum, instructional procedures, and transition preparation for older students with significant special needs is the course focus. Thirty hours of an assigned practicum are included. Teacher candidates focus on assessment, methodology, teaching strategies, curriculum, instructional procedures, and transition preparation for older students with significant special needs. Thirty hours of an assigned practicum are included.

Prerequisite: SPED 210, SPED 312, or consent of department chair.

Offered: Fall.

SPED 451 - Teaching Culturally/Linguistically Diverse Students with Exceptionality (3)

Students explore theoretical, conceptual and pedagogical elements in culturally and linguistically responsive teaching and learning for culturally and linguistically diverse students with exceptional needs.

Prerequisite: SPED 210 or SPED 210W, SPED 211, SPED 312 or SPED 312W, or consent of department chair

Offered: Fall, Spring.

SPED 453 - Content-Based ESL Instruction for Exceptional Students (4)

Students analyze instructional approaches that integrate language, literacy, and content instruction for multilingual learners. Students design, adapt and implement instruction for multilingual learners with special needs. Thirty-hour assigned practicum included.

Prerequisite: SPED 451 or consent of department chair.

Offered: Fall, Spring.

SPED 458 - STEM for Diverse Learners: Intensive Intervention (4)

Teacher candidates analyze STEM curricula and instructional approaches to support students with special needs. Emphasis is placed on assessment and intervention in math and science. Thirty hour practicum included.

Prerequisite: ELED 438, SPED 210 or SPED 210W, SPED 312 or SPED 312W, or consent of department chair.

Offered: Fall, Spring.

SPED 460 - Capstone: Specialized Language Instruction (2)

Teacher candidates explore the needs of students with language-based learning differences, reflecting upon how, where, and to what extent they, and their families, are being (or could be) served in schools.

Prerequisite: SPED 412 or SPED 412W.

Offered: Fall, Spring, Summer.

SPED 461 - Understanding Autism Spectrum Disorders (3)

The learning style and characteristics of autism spectrum disorders are examined. Techniques are developed for understanding and working with persons who have an autism spectrum diagnosis and their families. Students cannot receive credit for both SPED 461 and SPED 561.

Prerequisite: Restricted to students in the B.G.S. Social Services program who have completed at least 60 credits.

Cross-Listed as: SPED 561

Offered: Fall

SPED 470 - Collaboration: Home, School, and Community (3)

This course complements the Student Teaching semester to help prepare beginning special educators. Teacher candidates examine instructional planning/practices, assessment strategies and collaborative approaches to working with families.

Prerequisite: Concurrent enrollment in SPED 471, or consent of the department chair.

Offered: Fall, Spring.

SPED 471 - Student Teaching in Elementary Special Education (8-9)

In this culminating clinical experience, candidates demonstrate their competence in planning, implementing and assessing learning experiences in elementary level classrooms that serve students with mild to moderate disabilities. Graded S/U.

Prerequisite: Concurrent enrollment in SPED 470; satisfactory completion of the admission and retention requirements for the mild to moderate special education and elementary education programs; passing score(s) on Praxis II Content Knowledge Tests; approved Preparing to Teach Portfolio in all applicable programs; and completion of the community service requirement. Undergraduate and second degree candidates must have a cumulative G.P.A. of 2.75 a full semester prior to student teaching.

Offered: Fall, Spring.

SPED 472 - Student Teaching Seminar: SID (2)

Teacher behaviors appropriate to effective teaching are developed. Topics include multicultural and global perspectives, IEP refinement, reflective teaching practices, and parental and technology issues. This seminar meets weekly.

Prerequisite: Concurrent enrollment in SPED 473.

Offered: Fall, Spring.

SPED 473 - Student Teaching in SID (8-10)

In this culminating field experience, candidates complete a teaching experience in an elementary or middle school under the supervision of a cooperating teacher and college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Satisfactory completion of the admission and retention requirements for the special education and the elementary or secondary education programs; passing score(s) on all applicable Praxis II tests; approved Preparing to Teach Portfolio; completion of the community service requirement. A cumulative G.P.A. of 2.75 a full semester prior to student teaching; M.A.T. candidates must have a cumulative G.P.A. of 3.00 a full semester prior to student teaching.

Offered: Fall, Spring.

SPED 501 - Assessment in Special Education (3)

Graduate candidates develop skills in diagnostic assessment of the academic/behavioral special needs of children and adolescents at the elementary or secondary levels.

Prerequisite: Graduate status and SPED 300 or equivalent.

Offered: Fall (as needed).

SPED 503 - Positive Behavior Intervention and Supports (3)

Graduate candidates apply positive behavioral intervention and supports to address the social, emotional and behavioral needs of diverse learners with special needs.

Prerequisite: SPED 300 or equivalent, matriculation in a graduate program,or consent of department chair.

Offered: Fall (as needed).

SPED 505 - Oral and Written Language: Classroom Intervention (3)

Graduate candidates study methods, techniques and materials designed to help children or adolescents with spoken and/or written language special educational needs.

Prerequisite: SPED 300 or equivalent, matriculation in a graduate program, or consent of department chair.

Offered: Spring (as needed).

SPED 513 - Characteristics/Needs of Young Exceptional Children (3)

The range of exceptionalities that manifest during the period from birth to six is examined. Emphasis is placed upon understanding characteristics, needs, medical considerations, identification, legal/ethical principles and service approaches.

Prerequisite: Graduate status or consent of department chair.

Offered: Spring.

SPED 515 - Early Childhood Developmental Screening and Assessment (3)

Interdisciplinary assessment procedures and development of IEPs are covered. Emphasis is placed on assessment strategies that are used to develop responsive and meaningful programs for families and children with exceptionalities.

Prerequisite: Graduate status, SPED 513 or consent of program advisor.

Offered: Spring.

SPED 516 - Individualized Interventions for Young Exceptional Children (3)

Intervention and instructional approaches to the education of young exceptional students are analyzed. Topics include effective implementation of individualized education programs, data-based individualization and implementation of evidence-based practices.

Prerequisite: Graduate status, SPED 513 or consent of program advisor.

Offered: Fall.

SPED 518 - Literacy for Diverse Learners: Intensive Intervention (4)

Graduate candidates select, adapt, implement, and assess reading/writing methods/materials for elementary students with special needs. The focus on designing interventions that best support academic achievement is emphasized. Thirty-hour practicum required.

Prerequisite: Matriculation in a graduate program, SPED 501 or equivalents, or consent of department chair.

Offered: Spring.

SPED 519 - Professional Development for Cooperating Teachers (3)

Participants refine practices that support effective supervision and evaluation of professional practice in special education. Focus is on updates in the field of special education and resources. Hybrid course.

Prerequisite: Graduate status and currently serving as a cooperating teacher, or consent of department chair.

Offered: As needed.

SPED 520 - Young Adults in Nonschool Settings (3)

Study includes a delineation of the population, an integrated model for organizing a total program, and methods for developing adaptive behavior in a variety of community, residential, vocational, and leisure settings.

Prerequisite: Graduate status and SPED 300.

Offered: Summer.

SPED 524 - Literacy Instruction for Adolescents: Intensive Intervention (4)

Graduate candidates select, adapt, implement and assess reading/writing methods/materials for secondary students with special  needs. The focus on designing interventions that best support academic achievement is emphasized. Thirty-hour practicum required.

Prerequisite: Matriculation in a graduate program, SPED 501, or equivalents, or consent of department chair.

Offered: Spring.

SPED 525 - Development of Communication and Movement (3)

Patterns of human development are analyzed, with emphasis on the development of communication and movement. Alternate communication strategies for the nonverbal student are also discussed.

Prerequisite: Graduate status or consent of department chair.

Offered: Fall.

SPED 526 - Assessment, Curriculum: Students with Complex Needs (3)

Instructional and environmental adaptations pertinent to facilitating meaningful learning in students with complex learning, movement and sensory needs are discussed.

Prerequisite: Graduate status, SPED 300 and SPED 520.

Offered: Spring (even years).

SPED 531 - Overview of Special Education: Policies/Practices (3)

Review of special education policies/practices will be addressed. General educators will explore teaching strategies, legal/ethical implications, while learning the impact of biases on students/families with exceptionalities in educational settings.

Prerequisite: Admission to and retention in a graduate program; or consent of department chair.

Offered: Fall, Spring, Summer.

SPED 533 - Special Education: Practical Applications (3)

Primary learner characteristics will guide lesson planning, instruction and assessment to address the strength/needs of students with exceptionalities.

Prerequisite: Admission to and retention in a graduate program; successful completion of SPED 531 or consent of department chair.

Offered: Fall, Spring, Summer.

SPED 534 - Involvement of Families in Special Education (3)

Students examine the diversity of parents’ perspectives, values and understanding of educating individuals with special needs. They apply learned knowledge to develop strategies to enhance professional and parent interaction.

Prerequisite: Matriculation in a graduate program or consent of department chair.

Offered: Fall, Spring.

SPED 544 - Families in Early Intervention Programs: Essential Roles (3)

Emphasis is on the critical roles that families assume in assessment and intervention processes in early intervention programs. Strategies that promote multiple roles and levels of involvement for families in these programs are discussed.

Prerequisite: Concurrent enrollment with SPED 669. graduate status or consent of department chair.

Offered: Summer.

SPED 545 - Assistive Technology in the Classroom (3)

Technology is explored that facilitates success for persons with disabilities in integrated school and community settings. Focus is on the application of varied activities and materials.

Prerequisite: Graduate status or consent of department chair.

Offered: As needed.

SPED 546 - Dyslexia in Schools: Assessment and Identification (3)

Principles and procedures of effective assessment for the screening, identification and intervention of students with dyslexia are addressed.

Prerequisite: Graduate status or consent of department chair.

Offered: Summer.

SPED 551 - Introduction to Multicultural Special Education (3)

Students study national/state regulations governing multilingual learners and how they shape practices, and explore theoretical and pedagogical elements in culturally responsive teaching and learning for English/multilingual learners with exceptional needs.

Prerequisite: Graduate status or consent of department chair.

Offered: Summer (annually).

SPED 552 - Dual Language Acquisitions and Intervention (3)

Students examine linguistic structure and theories of first/second language acquisitions with consideration of disability, explore assessment procedures for distinguishing language differences from disorders, and learn linguistic intervention techniques.

Prerequisite: Graduate status, certification in special education, or consent of department chair.

Offered: Annually.

SPED 553 - Content-Based ESL Instruction for Exceptional ELs/MLLs (3)

Students plan and implement instruction that integrates language, literacy, and content instruction for English/multilingual learners with and without special needs, while analyzing instructional approaches for ELs/MLLs’ unique needs.

Prerequisite: Graduate status, certification in special education, SPED 451 or SPED 551, SPED 552, or consent of department chair.

Offered: Annually.

SPED 554 - Applied Linguistics for exceptional ELs/MLLs (3)

Students examine the nature of linguistics and English language structure; research language curriculum; and adapt research- and evidence-based language teaching principles for English/multilingual learners with exceptional needs.

Prerequisite: Graduate status, certification in special education, SPED 451 or SPED 551, or consent of department chair.

Offered: Annually.

SPED 555 - Literacy for ELs/MLLs with Special Needs (4)

Students study instructional practices in language and literacy instruction and assessment of English/multilingual exceptional ELs/MLLs; examine relationships among oral language, literacy, and content learning; and plan and implement literacy instruction. Thirty-hour practicum required.

Prerequisite: Graduate status, certification in special education, SPED 451 or SPED 551, SPED 552, SPED 554,or consent of department chair.

Offered: Annually.

SPED 557 - Assessing ELs/MLLs with Special Needs (3)

Students gain skill in assessing the linguistic, academic, and behavioral abilities of English/multilingual learners with special needs. Emphasis is on the selection, administration, and interpretation of multifaceted assessments.

Prerequisite: Graduate status, certification in special education, SPED 451 or SPED 551, SPED 552, SPED 554, or consent of department chair.

Offered: Fall, Spring, Summer.

SPED 558 - Mathematics/Science Instruction for Students with Disabilities (3)

Prerequisite: Graduate status.

SPED 561 - Understanding Autism Spectrum Disorders (3)

The learning style and characteristics of autism spectrum disorders are examined. Techniques are developed for understanding and working with persons who have an autism spectrum diagnosis and their families. Students cannot receive credit for both SPED 561 and SPED 461.

Prerequisite: Graduate status or consent of department chair.

Cross-Listed as: SPED 461

Offered: Fall (as needed).

SPED 562 - Practicum I in Autism (1)

The focus of this practicum is to conduct needs assessments of district capacity to meet the needs of students with autism. A district-based professional development plan is also developed.

Prerequisite: Graduate status and concurrent enrollment in SPED 561, or consent of department chair.

Offered: Summer (as needed).

SPED 563 - Curriculum and Methodology: Students with Autism (3)

Using the general education curriculum as a basis for learning, techniques are developed to support students with autism. Student strengths are matched with evidence-based practice.

Prerequisite: Graduate status, SPED 561, SPED 562, and concurrent enrollment in SPED 564 and SPED 565; or consent of department chair.

Offered: Spring (as needed).

SPED 564 - Building Social and Communication Skills (3)

The core social and communication deficits of autism are explored. Students learn to conduct specific assessments and to create individualized social and communication supports using evidence-based practices.

Prerequisite: Graduate status, SPED 561, SPED 562, and concurrent enrollment in SPED 563 and SPED 565; or consent of department chair.

Offered: Spring (as needed).

SPED 565 - Practicum II in Autism (1)

Concepts and skills are applied to students with autism in their classrooms. Student supports in communication, social skills, and curriculum adaptation are evaluated through on-site classroom observation.

Prerequisite: Graduate status, SPED 561, SPED 562, and concurrent enrollment in SPED 563 and SPED 564; or consent of department chair.

Offered: Summer (as needed).

SPED 566 - Autism and Positive Behavior Supports (3)

Participants use functional behavioral analysis to understand the unique behaviors of students with autism and the use of effective intervention.

Prerequisite: Graduate status, SPED 563, SPED 564, and SPED 565, or consent of department chair.

Offered: Fall (as needed).

SPED 606 - Leading Special Education I: Administration (3)

Emphasis is placed on school and community planning for children with disabilities and their families.

Prerequisite: Graduate status and consent of department chair.

Offered: As needed

SPED 607 - Leading Special Education II: Legal and Financial Aspects (3)

Emphasis is placed on federal/state laws, policies, procedures, and funding that govern/support special education programs/provisions for students with disabilities and their families. Field-based work is required.

Prerequisite: Graduate status and SPED 606, or consent of department chair.

Offered: As needed.

SPED 608 - Leading Special Education III: Program Development and Organization (4)

Emphasis is placed on the development of programs that promote access, opportunity, and positive outcomes for students with disabilities and their families.  (Practicum required.)

Prerequisite: Graduate status and SPED 606, or consent of department chair.

Offered: As needed.

SPED 609 - Leading Special Education IV: Program Evaluation (4)

Emphasis is on the efficacy and impact of programs developed to best support the academic, social, and emotional needs of students with disabilities. (Practicum required.)

Prerequisite: Graduate status and SPED 606, or consent of the department chair.

Offered: As needed.

SPED 615 - Assessment Practicum: Early Childhood Special Education (1)

Students evaluate the development, strengths and needs of young students with exceptionalities. Students select, administer and interpret assessments and write individual educational plans. Thirty-hour practicum required.

Prerequisite: Graduate status, SPED 513, concurrent enrollment with SPED 515, or consent of program advisor.

Offered: Spring.

SPED 616 - Intervention Practicum: Early Childhood Special Education (1)

Students utilize assessment to guide intervention and monitor progress for young students with disabilities. Evidence-based intervention techniques are applied in classroom settings. Thirty-hour practicum required.

Prerequisite: Graduate status, SPED 513, concurrent enrollment with SPED 516, or consent of program advisor.

Offered: Fall.

SPED 648 - Interpreting and Developing Research in Special Education (3)

Emphasis is placed on research and evaluation studies and design as they relate to methodology in various special education programs. This course assists the student in the formulation of an original research and evaluation project.

Prerequisite: Matriculation into a graduate program.

Offered: Fall.

SPED 651 - Language Development Practicum-Exceptional Bilingual Students (1)

Students practice assessment procedures for distinguishing speech and language differences from delays/disorders. Language intervention techniques are applied in classroom settings. 17 contact hours.

Prerequisite: Graduate status, certification in special education and concurrent enrollment in SPED 552, or consent of department chair.

Offered: Annually.

SPED 652 - Literacy Practicum-Exceptional Bilingual Students (1)

Students put into practice the methods used for teaching literacy to English language learners with disabilities. Literacy intervention techniques are applied in classroom settings. 17 contact hours.

Prerequisite: Graduate status, certification in special education; SPED 451 or SPED 551, SPED 552; concurrent enrollment in SPED 555; or consent of department chair.

Offered: Annually.

SPED 653 - Assessment Practicum-Exceptional Bilingual Students (1)

Students evaluate the linguistic, academic, and behavioral abilities of selected English language learners with disabilities. Students select, administer, and interpret multifaceted assessments and write individual educational plans. 17 contact hours.

Prerequisite: Graduate status, certification in special education; SPED 555, SPED 652; and concurrent enrollment in SPED 557; or consent of department chair.

Offered: Annually.

SPED 654 - Internship in Urban Multicultural Special Education (3)

Students are supervised to provide instruction and services to English/multilingual learners with exceptionalities. They conduct assessments, design and implement curriculum, provide interventions, and collaborate with professionals and parents.

Prerequisite: Graduate status, certification in special education; SPED 451 or SPED 551, SPED 552, SPED 453 and SPED 454 or SPED 553, SPED 554, SPED 555, SPED 557 or consent of department chair.

Offered: Fall, Spring, Summer.

SPED 655 - Capstone Study in Urban/Multicultural Special Education (2)

Under faculty supervision, students apply knowledge, skills and dispositions acquired through the program study to conduct a capstone portfolio. They present their capstone portfolios to faculty and peers for feedback.

Prerequisite: Graduate Status, SPED 451 or SPED 551, SPED 552, SPED 453 and SPED 454, or SPED 553, SPED 554, SPED 555, SPED 557, SPED 654, program foundation courses.

Offered: Fall, Spring, Summer.

SPED 662 - Internship in Elementary Special Education (6)

Graduate interns complete their culminating field experience in special education. Interns evaluate, plan, and teach to best meet the learning/behavioral needs of elementary students. Professional collaboration is strongly emphasized.

Prerequisite: Graduate status and consent of department chair.

Offered: Fall, Spring.

SPED 664 - Internship in Secondary Special Education (6)

Graduate interns complete their culminating field experience in special education. Interns evaluate, plan and teach to best meet the learning/behavioral needs of adolescents. Professional collaboration is strongly emphasized.

Prerequisite: Consent of graduate program advisor or department chair.

Offered: Fall, Spring.

SPED 665 - Graduate Internship: Students with SID (6)

The intern is required to evaluate, plan for, and teach students with severe intellectual and complex needs in a school environment. The internship is a full-time, 12 week experience.

Prerequisite: Graduate status and consent of program advisor.

Offered: Fall, Spring.

SPED 668 - Internship in Inclusive Early Childhood (3)

Interns participate in assessment, planning, program implementation, and collaboration with professionals and families in an inclusive early childhood class for 200 hours.

Prerequisite: Graduate status, concurrent enrollment in SPED 516, SPED 513 and consent of program advisor.

Offered: Fall, Spring, Summer.

SPED 669 - Internship in Early Intervention (3)

Interns participate in assessment, planning, program implementation, and collaboration with professionals and families in an early intervention program for 200 hours.

Prerequisite: Graduate status, SPED 513, concurrent enrollment in SPED 544, and consent of program advisor.

Offered: Fall, Spring, Summer.

# SUST - Sustainability Studies

SUST 200 - Introduction to Sustainability (4)

Students examine linkages among environmental protection, economic growth, and social progress in order to develop a fundamental understanding of interdisciplinary skills needed to assess and solve problems related to sustainability.

Offered: Annually.

SUST 251 - Sustainable Systems and Deep Ecology (3)

This course presents holistic, experiential view of ecological systems as they interact with human experience, local food systems, green buildings, and sustainable energy systems, integrating guest lectures by green economy practitioners.

Prerequisite: Completion of FYS, FYW, and at least 24 credits, or permission of instructor.

Offered: Fall, Spring.

SUST 261 - Exploring Nature Through Art, Science, Technology (4)

Students develop environmental awareness of local ecology, cultivating a deepened sense of personal connection with the natural world, through art, writing, technology, and scientific exploration. No prior artistic experience is required.

General Education Category: Connections

Prerequisite: FYS, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring.

# TESL - Teaching English to Speakers of Other Languages

TESL 300 - Promoting Early Childhood Dual Language Development (3)

Candidates acquire research-based strategies for promoting English and supporting the native language in early childhood settings. Approaches are also given for working with parents and caregivers who speak languages other than English.

Prerequisite: ECED 290 and admission to the early childhood education teacher preparation program.

Offered: Fall.

TESL 401 - Introduction to Teaching Emergent Bilinguals (4)

Students learn methods and techniques for supporting Emergent Bilingual students in regular education classrooms. Students experience observation and practice through early clinical preparation. Concurrent enrollment in a practicum is recommended.

Prerequisite: FNED 246/FNED 346.

Offered: Fall, Spring.

TESL 402 - Applications of Second Language Acquisition (3)

Students examine theories and research relating to second-language acquisition, which are examined from a pedagogical perspective. Emphasis is on variables affecting language learning and language teaching.

Prerequisite: TESL 401.

Offered: Fall, Spring.

TESL 507 - Literacy Instruction for Emergent Bilingual Learners (3)

Current theories of bilingualism and biliteracy are examined and connected to pedagogies for developing bilingual readers and writers in ESL settings.

Prerequisite: TESL 541; admission to the program or consent of department chair.

Offered: Fall, Spring.

TESL 539 - Second Language Acquisition Theory and Practice (3)

Current theories of first and second language acquisition are examined from a pedagogical perspective. Emphasis is given to creating inclusive linguistic ecologies in schools.

Prerequisite: Graduate status.

Offered: Fall, Spring, Summer.

TESL 541 - Applied Linguistics in TESOL (3)

Phonology, morphology, syntax, semantics and pragmatics are explored and applied to language development of emergent bilingual learners. Students also examine the connections between home languages and English.

Prerequisite: TESL 539; TESL 549 or BLBC 515; admission to the program or consent of department chair.

Offered: Fall, Spring.

TESL 546 - TESOL Pedagogies for Grades PK-6 (3)

This course reviews current pedagogy and practice through a critical lens in ESL and general education settings for teachers in grades pk-6.

Prerequisite: TESL 541; admission to the program or consent of department chair.

Offered: Fall.

TESL 548 - TESOL Pedagogies for Grades 5-Adult (3)

This course reviews current pedagogy and practice through a critical lens in ESL and general education settings for teachers in grades 5-Adult.

Prerequisite: TESL 541; admission to the program or consent of department chair.

Offered: Spring.

TESL 549 - Sociocultural Contexts: Education in Bilingual Communities (3)

Students use critical theoretical frameworks to explore and reflect on identity formation. Students examine sociocultural contexts and issues affecting bilingual communities, and the essential role of families and communities.

Prerequisite: Graduate status.

Offered: Fall, Spring, Summer.

TESL 551 - Assessment of Emergent Bilinguals (3)

Students explore theory and practice of assessment for emergent bilinguals, including conducting formal and informal assessments and using data to inform instruction. Students also explore assessment policy and its implications.

Prerequisite: TESL 541; admission to the program or consent of department chair.

Offered: Fall, Spring.

TESL 553 - Internship in TESOL and Bilingual Education (3)

Students create and implement lessons, conduct assessments, reflect on practice and collaborate with professionals and families in supervised ESL and/or bilingual settings. The internship schedule includes weekly seminars.

Prerequisite: TESL 539; TESL 549 or BLBC 515; TESL 541;TESL 546 or TESL 548 or BLBC 516; TESL 551; TESL 507 or BLBC 518; admission to the program

Offered: Fall, Spring.

TESL 599 - Graduate Essay in TESOL (1)

Under faculty supervision, students select, critique, and construct portfolio narratives as the comprehensive assessment for the TESL program. The project culminates in a faculty interview and student defense.

Prerequisite: TESL 539; TESL 549 or BLBC 515; TESL 541;TESL 546 or TESL 548 or BLBC 516; TESL 551; TESL 507 or BLBC 518; TESL 553; admission to the program or consent of department chair.

Offered: Fall, Spring.

TESL 600 - ESL Program Supervision (3)

ESL program supervision, coaching and curriculum design are explored in weekly seminars as well as field experiences. This post-graduate course partially fulfills the requirements for the ESL Specialist/ Consultant certification.

Prerequisite: Graduate degree in TESOL, Bilingual Education, or related field. Minimum of three years’ experience teaching emergent bilingual students. ESL Certification required.

Offered: Spring.

# TECH - Technology Education

TECH 200 - Introduction to Technological Systems and Processes (3)

This is an introduction to technological development, technological literacy, the use of technological systems, and tools for fundamental production processes to solve social technical problems. 4 contact hours.

Offered: Fall, Spring.

TECH 202W - Design Processes (3)

This class introduces design processes necessary for problem solving and production in a technological society. Emphasis is placed on the design sequence, processes, and techniques for sketching, modeling, prototyping, and CAD.  This is a Writing in the Discipline (WID) course. 4 contact hours.

Offered: Fall.

TECH 204 - Energy and Control Systems (3)

Energy sources and common energy processing techniques are introduced. Study includes control devices, energy transmission technology, and the operation of energy conservation systems. 4 contact hours.

Offered: Annually.

TECH 216 - Computer-Aided Design (3)

International drafting-language protocol is explored and used to solve design problems in orthographic and pictorial presentation. Study includes basic computer-aided drafting. 6 contact hours.

Offered: As needed.

TECH 305W - Teaching and Learning in Technology Education (4)

Students are introduced to the materials and skills that will assist them with the development of the formative abilities necessary to deliver effective instruction in (K-12) technology education programs.

Prerequisite: TECH 200 and TECH 202 or TECH 202W; 12 credits of TECH must be completed with a minimum G.P.A. of 2.75; and a minimum cumulative G.P.A. of 2.75.

Offered: Annually.

TECH 306 - Automation and Control Systems (4)

Students study automation and control systems to create efficient technological systems.  Activities include CNC, 3D printing, laser cutting/etching and pneumatics to support appropriate technological problem solving and decision-making opportunities.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any mathematics or natural science general education distribution.

Offered: Annually.

TECH 318 - Practicum I: Teaching K-6 Technology Education (4)

Students begin to develop essential skills required to plan and organize lessons for the elementary technology education environment. They observe, assist, then teach in the elementary classroom and laboratory. 6 contact hours.

Prerequisite: Admission to FSEHD; TECH 305 or TECH 305W and TECH 406 or TECH 406W, with minimum grade of B- and positive recommendation from the instructor; completion of at least 48 credit hours of required and cognate courses in the major, or consent of department chair; minimum cumulative G.P.A. of 2.75; and minimum G.P.A. of 2.75 in content area.

Offered: Annually.

TECH 326 - Communication Systems (3)

Communication processes, systems, and their applications are examined. Study includes the technological processes used in developing, producing, delivering, and storing ideas and information in a technological society. 4 contact hours.

Prerequisite: TECH 200 or TECH 202 or TECH 202W.

Offered: Annually.

TECH 327 - Construction Systems (3)

This is an introduction to the skills, knowledge, environments, and people in the construction industry. A laboratory component is required for students to plan, design, and build a structure. 6 contact hours.

Prerequisite: TECH 200 or TECH 202 or TECH 202W.

Offered: Annually.

TECH 328 - Manufacturing Systems (3)

This is an exploration of contemporary manufacturing systems, design considerations, production techniques, and automated systems and control devices to produce products. Organizational and management structures are also practiced. 4 contact hours.

Prerequisite: TECH 200 or TECH 202 or TECH 202W.

Offered: Annually.

TECH 329 - Transportation Systems (3)

Focus is on transportation technology, modes, vehicular systems, and support systems for moving people and cargo in various environments. Study includes the effects of transportation on individuals, society, and the environment. 4 contact hours.

Prerequisite: TECH 200 or TECH 202 or TECH 202W.

Offered: Annually.

TECH 406W - Methods for Teaching Technical Subjects (4)

Students are introduced to teaching methods and clinical experiences in the technical classroom. They learn the craft of teaching by developing micro-lessons delivered and assessed in public school labs.

Prerequisite: TECH 305 or TECH 305W, with minimum grade of B-; completion of at least 18 credit hours of content area courses, with minimum GPA of 2.75 in these courses; admission to the Feinstein School of Education and Human Development and to the technology education teacher preparation program; CTE students will require the consent of program coordinator.

Cross-Listed as: CTE 300.

Offered: Annually.

TECH 418 - Practicum II: Teaching Secondary Technology Education (4)

Students study various principles, methods, content, and curriculum necessary to deliver appropriate lessons. They explore various professional responsibilities under the direction of a cooperating teacher and a college supervisor.

Prerequisite: Admission to FSEHD; TECH 318 with minimum grade of B- and positive recommendation from the instructor; completion of at least 55 credit hours of required and cognate courses in the major, or consent of department chair; minimum cumulative G.P.A. of 2.75; and minimum G.P.A. of 2.75 in content area.

Offered: Annually.

TECH 420 - Introduction to Student Teaching (2)

Prerequisite: Concurrent enrollment in TECH 421 and TECH 422. To be admitted into TECH 420, TECH 421, and TECH 422, the student must have completed all other required courses.

Cross-Listed as: SED 420, WLED 420.

Offered: Early Spring.

TECH 421 - Student Teaching in the Secondary School (7)

In this culminating field experience, candidates complete a teaching experience in a PK-12 school under the supervision of cooperating teachers and college supervisors. This is a full-semester assignment. This course will involve student teaching in PK-12 settings. Students cannot receive credit for more than one of the following: SED 421, TECH 421 and WLED 421. Graded S, U.

Prerequisite: Concurrent enrollment in TECH 420 and TECH 422; completion of all program requirements and all required education courses, with a minimum grade of B, prior to student teaching; satisfactory completion of all courses in the major prior to student teaching; a recommendation from the practicum instructor; undergraduate, second degree, and RITE students must have a cumulative GPA of 2.75 a full semester prior to student teaching; graduate students must have a cumulative GPA of 3.00 a full semester prior to student teaching; undergraduate and second degree students must complete the community service requirement; all candidates must have passing score(s) on the Praxis II, approved mini-teacher candidate work sample; and a negative result from the required tuberculin test. To be admitted into TECH 421, and TECH 422, the student must have completed all other required courses.

Cross-Listed as: SED 421, WLED 421.

Offered: Spring.

TECH 422 - Student Teaching Seminar in Secondary Education (3)

This is an integrative and culminating experience in the professional program in world languages education. Students reflect on their initial experience as classroom teachers. This course will involve discussion of student teaching in PK-12 settings. Students cannot receive credit for more than one of the following: SED 422, TECH 422 and WLED 422. Graded S, U.

Prerequisite: Concurrent enrollment in TECH 420 and TECH 421. To be admitted into TECH 421, and TECH 422, the student must have completed all other required courses.

Offered: Spring.

TECH 430 - Internship in Applied Technology (6)

Exploratory internships offered for the purpose of professional development and advancing career goals. Learning experiences in work environments help students transition from the role of student to the professional. 12 contact hours.

Prerequisite: Senior standing; All content courses must be completed; 27 credits in content area; 2.75 GPA in content area.

Offered: As needed.

TECH 431W - Capstone Design Project (4)

This is a project completed under the direction of a faculty member. Students will design, model, test, and report results of their project. This is a Writing in the Discipline (WID) course. 6 contact hours.

Prerequisite: Senior standing; all content courses must be completed; 27 credits in content area; 2.75 GPA in content area.

Offered: Fall, Spring.

TECH 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

TECH 511 - Implementing Technology Education (3)

Teaching strategies are provided, with focus on implementing programs, integrating with STEM areas, and developing activities.

Prerequisite: Graduate status and certification in technology education, or consent of department chair.

Offered: As needed.

TECH 512 - Program Development and Funding (3)

Focus is on developing funding plans and grants to sustain technology education programs.

Prerequisite: Graduate status and certification in technology education, or consent of department chair.

Offered: As needed.

TECH 520 - Curriculum Models in Technology Education (3)

New curriculum models used in technology education programs at the national level are presented. Career education and prevocational curriculum thrusts are identified and analyzed for implementation in technology education programs.

Prerequisite: Graduate status and certification in technology education, or consent of department chair.

Offered: As needed.

TECH 531 - Issues in the Workplace (3)

Economic, social, and political issues affecting work and education are identified. Forces accelerating the rate of change in peoples' working lives and their expectations for education and training are studied.

Prerequisite: Graduate status and certification in technology education, or consent of department chair.

Offered: Spring.

TECH 562 - Research in Technology Education (3)

Basic forms of research and evaluation are introduced. Students are required to develop a research proposal in the field of technology education or in another area of technology.

Prerequisite: Graduate status, completion of four courses in the Professional Education Component and/or consent of department chair.

Offered: As needed.

TECH 565 - Problem Solving and Critical Thinking (3)

Students apply techniques for analyzing problems, framing decisions, and stimulating critical analysis and creative thought.

Prerequisite: Graduate status and certification in technology education, or consent of department chair.

Offered: Fall.

TECH 590 - Directed Study (1-6)

Students identify a relevant STEM research project. The student prepares the project proposal, conducts the research and presents artifacts developed from the research.

Prerequisite: Graduate status, completion of 18 credits in the program, or permission of the instructor.

Offered: As needed.

# THTR - Theatre

THTR 091 - Portfolio Review (0)

At the conclusion of each semester, students present their course work to a panel of professors for critique. The critique focuses on the student's progress and on preparing the student for future job interviews and employment. Grading is S or U.

Offered: Fall, Spring.

THTR 105 - Introduction to Theatre (3)

The basic principles of playwriting, acting, and directing are examined.

Offered: Fall, Spring.

THTR 110 - Fundamentals of Theatrical Design and Production (3)

The basic principles and practices of design and production are examined.

Offered: Fall, Spring.

THTR 120 - Acting I: Improvisation (3)

The actor is introduced to self-discovery in performance. Improvisational techniques free the beginning actor physically, vocally, and emotionally. (Formerly THTR 222 The Actor’s Self: Improvisation and Technique)

Offered: Fall, Spring.

THTR 121 - Acting II: Movement (3)

The performer is trained in controlling, shaping, and moving the body. Attention is given to the development of physical characterization. (formerly THTR 221 Movement for the Actor)

Offered: Fall, Spring.

THTR 178 - Theatre Production I (1)

Students work on RIC theatre productions under faculty supervision (in performance, technical theatre, costumes/makeup, or stage/theatre management). This course must be taken twice. Grading is S or U.

Offered: Fall, Spring.

THTR 200 - Musical Theatre Company (.5)

Musical theatre students are taught physical and vocal conditioning and are exposed to workshops in music, theatre and dance. Needs to be repeated for credit a minimum of six times for RIC students, and four times for transfer students.

Prerequisite: Admission to musical theatre program.

Offered: Fall, Spring.

THTR 217 - Fundamentals of Stage Management (3)

The basic principles of stage management are covered.

Prerequisite: THTR 105 and THTR 110, or consent of department chair.

Offered: Spring.

THTR 223 - Acting III: Technique and Scene Study (3)

Through the study, analysis and performance of scenes and monologues, the actor is introduced to Constantin Stanislavski’s system of actor training.

Prerequisite: THTR 120, or by consent of department chair.

Offered: Fall.

THTR 224 - Script Analysis (3)

Students learn how to analyze scripts and search for playable dramatic values that reveal central unifying patterns, which shape plays from the inside and coordinate all of their parts.

Prerequisite: THTR 223

Offered: Spring.

THTR 226 - Acting IV: Voice and Articulation (3)

The fundamentals of voice production and articulation are studied from the physiological and phonetic bases of speech. (Formerly THTR 220 Voice and Articulation for the Performer)

Offered: Spring.

THTR 227 - Advanced Movement (3)

Using inspiration from a deep observation of the world, the elements, materials, colours, light, music, animals and humans will be used to create characters in performance.

Prerequisite: THTR 121.

Offered: Fall.

THTR 228 - Basic Design Principles for Theatre (3)

Students are introduced to the language of design. The elements and principles of design and basic drawing techniques are also examined.

Prerequisite: THTR 105 and THTR 110, or consent of department chair.

Offered: Fall.

THTR 229 - Playwriting (3)

Students will learn to craft short playwrighting exercises resulting in the writing of a ten muinute play.

Prerequisite: THTR 223 and THTR 224.

Offered: Fall, Spring.

THTR 230 - Stagecraft (3)

The basics of drafting, theatrical building practices, electrical, and sound pathways are introduced. Research and shop projects are required.

Prerequisite: THTR 105 and THTR 110, or consent of department chair.

Offered: Spring.

THTR 231 - Scenography (3)

Theatrical rendering techniques and the fundamentals of the theatrical scenic model are studied.

Prerequisite: THTR 105 and THTR 110, or consent of department chair.

Offered: Spring.

THTR 232 - Technical Theatre Principles (3)

Advanced technical concepts and systems are examined. Focus is on how different systems are interrelated on stage.

Prerequisite: THTR 230.

Offered: Spring.

THTR 233 - Architecture and Décor (3)

The history of visual style is explored. Clothing, art, and architecture are examined through various key periods of history.

Prerequisite: THTR 105 and THTR 110, or consent of department chair.

Offered: Spring.

THTR 240 - Appreciation and Enjoyment of the Theatre (4)

The theatrical process—from playwriting to performance to criticism—is studied. Attendance at theatre productions is required.

General Education Category: Arts - Visual and Performing for nonmajors.

Offered: Fall, Spring, Summer.

THTR 241 - American Musical Theatre (3)

The development of musical comedy and its variations within the United States from the eighteenth century to the present are traced.

Offered: Fall.

THTR 242 - Acting for Nonmajors (4)

This course is for non-theatre majors. Students are introduced to acting, with focus on acquainting students with the basic concepts and principles of acting, including script analysis, character development, and ensemble playing.

General Education Category: Arts - Visual and Performing.

Offered: Summer.

THTR 246 - Musical Theatre Scene Study (3)

Students study musical theatre, emphasizing performance techniques and stylistic characteristics unique to the genre in the performance of musical scenes.

Prerequisite: MUS 241

Offered: Spring.

THTR 261 - Contemporary Black Theatre: Cultural Perspectives (4)

African American theatre in America and English-speaking Africa since the 1960s is studied, with emphasis on representative plays, playwrights, movements, and artists.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

THTR 278 - Theatre Production II (1)

Students work on RIC theatre productions under faculty supervision (in performance, technical theatre, costumes/makeup, or stage/theatre management). This course must be taken twice. Grading is S or U.

Prerequisite: THTR 178.

Offered: Fall, Spring.

THTR 322 - Acting V: Advanced Scene Study (3)

The actor will learn to develop techniques that will enable them to create characters through the methods of Grotowski, Linklater, Laban, Anne Bogart, and Shakespeare and Company.

Prerequisite: THTR 223 or by consent of department chair.

Offered: Fall.

THTR 323 - Acting VI: Shakespeare (3)

The actor is trained in the performance of the plays of William Shakespeare.

Prerequisite: THTR 322 or by consent of department chair.

Offered: Spring.

THTR 330 - Theatrical Design Concepts (3)

The differences and similarities within the design disciplines are explored. Students create multiple designs for a single production.

Prerequisite: THTR 228 and THTR 231, or consent of department chair.

Offered: Fall.

THTR 346 - Musical Theatre Performance (3)

The performance of music for musical theatre is studied in its theatrical context. Emphasis is on performance techniques and stylistic characteristics unique to the genre in solo and ensemble performance.

Prerequisite: MUS 241 and THTR 246.

Offered: Fall.

THTR 378 - Theatre Production III (1)

Students work on RIC theatre productions under faculty supervision (in performance, technical theatre, costumes/makeup, or stage/theatre management). This course must be taken twice. Grading is S or U.

Prerequisite: THTR 278 or consent of department chair.

Offered: Fall, Spring.

THTR 390 - Directed Study (3)

The directed study is designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

THTR 411 - Technical Direction (3)

The skills needed by a technical director in both commercial and noncommercial theatre are introduced and developed.

Prerequisite: 60 credit hours of undergraduate courses, including THTR 232, or consent of department chair.

Offered: As needed.

THTR 412 - Scene Design for the Theatre (3)

The design process as it relates to the production as a whole is explored. Designer's concepts are translated into practical, theatrical, visual terms through sketching, mechanical drawings, and model building.

Prerequisite: THTR 231 or consent of department chair.

Offered: As needed.

THTR 413 - Sound Design for the Theatre (3)

The art and technology of theatrical sound are explored. Topics include recording, editing, and reinforcement techniques and equipment. This course may be repeated once for credit.

Prerequisite: THTR 231 or consent of department chair.

Offered: As needed.

THTR 414 - Costume for the Theatre (3)

Theoretical and practical design concepts, civil dress history, and characterizations are studied through theatre application and projects.

Prerequisite: THTR 231 or consent of department chair.

Offered: Fall.

THTR 415 - Lighting for Theatre and Dance (3)

Lighting for the stage is explored.

Prerequisite: THTR 231 or consent of department chair.

Offered: As needed.

THTR 416 - Makeup for the Stage, Film, and Television (3)

Techniques of makeup, chart construction, and research are studied. Twenty hours of laboratory experience on a major Rhode Island College Theatre production are required.

Prerequisite: THTR 110 or consent of department chair.

Offered: Annually.

THTR 417 - Stage Management for Theatre and Dance (3)

Focus is on the responsibilities of a stage manager for both commercial and noncommercial theatre and dance companies. 3-4 contact hours.

Prerequisite: 60 credit hours of undergraduate courses, including THTR 105, THTR 110, and THTR 217, or consent of department chair.

Offered: As needed.

THTR 418 - Scenic Painting (3)

The basic principles and techniques of scenic painting are examined. This course may be repeated once for credit.

Prerequisite: THTR 231 or consent of department chair.

Offered: As needed.

THTR 420 - Acting VII: Period Styles of Acting (3)

Students will analyze and perform scenes and monologues from periods and stylistic genres such as Ancient Greece, the Commedia dell’arte, Moliere, the Restoration, farce, melodrama and absurdism.

Prerequisite: THTR 322, or by consent of department chair.

Offered: Fall.

THTR 421 - Acting VIII: Collaborative Devising (3)

A creative exploration into the development and performance of original work, emphasizing process, collaboration and the creation of an original product.

Prerequisite: THTR 322, or by consent of department chair.

Offered: Spring.

THTR 424 - Auditioning Techniques (3)

Through the selection, preparation, presentation, evaluation, and coaching of audition materials, students improve their auditioning skills.

Prerequisite: 60 credit hours of undergraduate courses, including THTR 322, and THTR 323, or consent of department chair.

Offered: Annually.

THTR 425 - Fundamentals of Directing (3)

Basic play interpretation, casting, rehearsal procedures, and other directorial duties are covered. Student-directed scenes involve problems in composition, movement, tempo, and rhythm.

Prerequisite: THTR 322 or consent of department chair.

Offered: Annually.

THTR 430 - Creative Drama with Children and Youth (3)

Improvised drama is explored as a process in fostering creative expression in children and youth in a variety of educational and community settings.

Prerequisite: Theatre majors: 60 credit hours of undergraduate course work or consent of department chair. Elementary education students: ELED 300 or consent of department chair.

Offered: Fall.

THTR 440W - History of Theatre: Origins to 1800 (4)

Students examine the development of the physical theatre and of dramatic art from their origins to 1800. THTR 440W and THTR 441W do not have to be taken in sequential order. This is a Writing in the Discipline (WID) course.

Prerequisite: Two 200-level theatre courses or consent of department chair.

Offered: Annually.

THTR 441W - History of Theatre: 1800 to the Present (4)

Students examine the development of the physical theatre and of dramatic art from 1800 to the present. THTR 440W and THTR 441W do not have to be taken in sequential order.

Prerequisite: Two 200-level theatre courses or consent of department chair.

Offered: Annually.

THTR 460W - Seminar in Theatre (3)

A selected area of theatre is explored in depth, culminating in a major research paper and oral presentation.  This is a Writing in the Discipline (WID) course.

Prerequisite: Senior standing or consent of department chair.

Offered: Spring.

THTR 475 - Theatre Internship (9)

Students gain a comprehensive understanding of theatre arts through on-the-job training. Full-time work with an approved theatre company is required. (6 credit hours for summer.) Grading is H, S, or U.

Prerequisite: THTR 105 and THTR 110; open only to theatre majors (1) who are juniors or seniors, and (2) who have GPA of 3.00 in the major and minimum cumulative GPA of 2.00. Application must be made one semester prior to the period of internship.

Offered: As needed.

THTR 477 - Touring Theatre Production (3)

The student actor and student technician are trained in the touring process. Focus is on vivid material and concept, movement, and dialogue, rather than on technical production. 15 contact hours.

Prerequisite: For student actors: THTR 105, THTR 110, THTR 120, THTR 121, THTR 222, THTR 320, THTR 321, and consent of department chair. For student technicians: THTR 105, THTR 110, THTR 411, and one course from THTR 412, THTR 414, THTR 415, THTR 417, and consent of department chair.

Offered: Fall.

THTR 478 - Theatre Production IV (1)

Students work on RIC theatre productions under faculty supervision (in performance, technical theatre, costumes/makeup, or stage/theatre management). This course must be taken twice. Grading is S or U.

Prerequisite: THTR 378 or consent of department chair.

Offered: Fall, Spring.

THTR 490 - Independent Study in Theatre (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. The Independent Study in Theatre may be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Junior or senior standing, and consent of instructor, department chair and dean.

Offered: As needed.

THTR 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Junior or senior standing, consent of instructor, department chair and dean, and admission to the theatre honors program.

Offered: As needed.

THTR 492 - Independent Study II (3)

This course continues the development of research or activity begun in THTR 491. For departmental honors, the project requires final assessment form the department.

Prerequisite: THTR 491 and consent of instructor, department chair and dean.

Offered: As needed.

THTR 493 - Special Problems in Design (3)

A design project and a written report of the procedures followed in accomplishing the project are required. This course may be repeated once for credit with a change in content.

Prerequisite: Junior or senior standing and consent of department chair and dean.

Offered: As needed.

THTR 498 - Special Problems in Directing (3)

A directing project and a written report of the procedures followed in accomplishing the project are required. This course may be repeated once for credit with a change in content.

Prerequisite: Junior or senior standing and consent of department chair and dean.

Offered: As needed.

# VIR - Vascular Interventional Radiography

VIR 300 - Principles of Vascular Interventional Radiography (3)

Students examine the foundations of interventional radiography. Topics include patient interactions and management, image acquisition, supplies, equipment, and devices supporting diagnostic and interventional image guided vascular procedure.

Prerequisite: Acceptance into the Certified RT Vascular Interventional Radiography concentration.

Offered: Fall.

VIR 301 - VIR-301 (3)

Students will examine the most common vascular interventional procedures, including vascular anatomy and pathology, imaging techniques, equipment, devices used, and image analysis.

Prerequisite: Acceptance into the Certified RT Vascular Interventional Radiography concentration.

VIR 302 - Procedures II (4)

Students will examine the less common vascular interventional procedures, including vascular anatomy and pathology, imaging techniques, equipment, devices used, and image analysis.

Prerequisite: VIR 300

Offered: Spring.

VIR 303 - Clinical Education I (3)

Students, under direct and indirect supervision, are introduced to clinical skills through observation and participation in VIR procedures. Emphasis is placed on the integration of clinical and didactic education. 8 contact hours.

Prerequisite: Acceptance into the Certified RT Vascular Interventional Radiography concentration.

Offered: Fall.

VIR 304 - Clinical Education II (4)

Students, under direct and indirect supervision, are introduced to further clinical skills through observation and participation in VIR procedures. Emphasis is placed on the integration of clinical and didactic education. 8 contact hours.

Prerequisite: VIR 300

Offered: Spring.

# WLED - World Languages Education

WLED 201 - Introduction to World Languages Education (4)

Introduces teacher candidates to the processes, procedures, and contexts of effective lesson planning and assessment in PK-12 world language classrooms. Clinical preparation experiences in the broader language community included.

Prerequisite: FNED 246 and 8 credits in content area.

Offered: Spring

WLED 317 - Practicum I: Community-Based Language Learning (4)

Teacher candidates complete a community-based practicum in a public, private or nonprofit organization within the target language community, either locally or abroad. Clinical preparation (3 weeks or equivalent).

Prerequisite: WLED 201.

Offered: Spring.

WLED 417 - Practicum II: PK-12 World Languages Education (4)

Teacher candidates examine principles, methods, content and curriculum in PK-12 world languages education and plan and implement lessons with a critical social justice focus. Clinical preparation (3 weeks or equivalent.

Prerequisite: WLED 317; and students must submit passing scores for the language-specific Oral Proficiency Interview and Writing Proficiency Test (Advanced Low or higher); the Praxis II Principles of Learning and Teaching Grades K-6 (5622) (score of 160 or higher) OR the Praxis II: Principles of Learning and Teaching 7-12 Test (5624) (score of 157 or higher); and the language-specific ETS language content exam, if applicable. See also under individual language concentrations for additional information on specific language requirements.

Offered: Fall.

WLED 420 - Introduction to Student Teaching (2)

Teacher candidates will participate in a three-week clinical preparation in the field. This induction phase will orient secondary education teacher candidates to their student teaching semester. This course will involve student teaching in PK-12 settings. Students cannot receive credit for more than one of the following: SED 420, TECH 420 and WLED 420. Graded S, U.

Prerequisite: Concurrent enrollment in WLED 421 and WLED 422. To be admitted into WLED 420, WLED 421 and WLED 422, the student must have completed all other required courses.

Cross-Listed as: SED 420, TECH 420.

Offered: Early Spring.

WLED 421 - Student Teaching in the Secondary School (7)

In this culminating field experience, candidates complete a teaching experience in a PK-12 school under the supervision of cooperating teachers and college supervisors. This is a full-semester assignment. This course will involve student teaching in PK-12 settings. Students cannot receive credit for more than one of the following: SED 421, TECH 421 and WLED 421. Graded S, U.

Prerequisite: Concurrent enrollment in WLED 420 and WLED 422; completion of all program requirements and all required education courses, with a minimum grade of B, prior to student teaching; satisfactory completion of all courses in the major prior to student teaching; a recommendation from the practicum instructor; undergraduate, second degree, and RITE students must have a cumulative GPA of 2.75 a full semester prior to student teaching; graduate students must have a cumulative GPA of 3.00 a full semester prior to student teaching; undergraduate and second degree students must complete the community service requirement; all candidates must have passing score(s) on the Praxis II, approved mini-teacher candidate work sample; and a negative result from the required tuberculin test. To be admitted into WLED 420, WLED 421 and WLED 422, the student must have completed all other required courses.

Cross-Listed as: SED 421, TECH 421.

Offered: Spring.

WLED 422 - Student Teaching Seminar in Secondary Education (3)

This is an integrative and culminating experience in the professional program in world languages education. Students reflect on their initial experience as classroom teachers. This course will involve discussion of student teaching in PK-12 settings. Students cannot receive credit for more than one of the following: SED 422, TECH 422 and WLED 422. Graded S, U.

Prerequisite: Concurrent enrollment in WLED 420 and WLED 421. To be admitted into WLED 420, WLED 421, and WLED 422, the student must have completed all other required courses.

Cross-Listed as: SED 422, TECH 422.

Offered: Spring.

WLED 501 - Graduate Introduction to World Languages Education (4)

Introduces candidates to the processes, procedures, and contexts of effective lesson planning and assessment in PK-12 world language classrooms. Clinical preparation experiences in the broader language community included.

Prerequisite: Concurrent or prior enrollment in FNED 546.

Offered: Spring.

WLED 517 - Graduate Practicum in World Languages Education (4)

Teacher candidates examine principles, methods, content and curriculum in PK-12 world languages education and plan and implement lessons with a critical social justice focus.

Prerequisite: WLED 501.

Offered: Fall.

WLED 520 - Graduate Introduction to World Languages Student Teaching (2)

Candidates participate in a three-week clinical preparation in the field. This induction phase orients world languages education candidates to their student teaching semester. Involves student teaching in PK-12. Graded S, U.

Prerequisite: Concurrent enrollment in WLED 521 and WLED 522; completion of all program requirements and all required education, with a minimum grade of B, prior to student teaching; satisfactory completion of all courses in the major prior to student teaching; a recommendation from the practicum instructor; graduate students must have a cumulative GPA of 3.00 a full semester prior to student teaching; all candidates must have passing score(s) on the Praxis II, approved mini-teacher candidate work sample; and a negative result from the required tuberculin test. To be admitted into WLED 520, WLED 521 and WLED 522, the student must have completed all other required courses.

Offered: Early Spring

WLED 521 - Graduate Student Teaching in World Languages Education (5)

In this culminating field experience, candidates complete a student teaching experience in a PK-12 school under the supervision of cooperating teachers and college supervisors. This is a full-semester assignment. Graded S, U.

Prerequisite: Concurrent enrollment in WLED 520 and WLED 522.

Offered: Spring.

WLED 522 - Graduate Seminar in World Languages Education (2)

In this integrative and culminating experience in world languages education, candidates reflect on their initial experience as classroom teachers. Involves discussion of student teaching in PK-12 settings.

Prerequisite: Concurrent enrollment in WLED 520 and WLED 521.

Offered: Spring.

# YDEV - Youth Development

YDEV 300W - Introduction to Youth Development (4)

Students will explore basic dimensions of youth work, professional practice and contexts of play and learning. The course requires travel to youth development settings. This is a Writing in the Discipline (WID) course.

Prerequisite: At least 24 credits. A BCI (state background check) is required.

Offered: Fall, Spring.

YDEV 301 - Community, Pedagogy and Inclusion (4)

Students will learn the fundamentals of building supportive and inclusive communities in informal youth settings. Students design and implement youth development programming in a laboratory setting.

Prerequisite: At least 24 credits, and prior or concurrent enrollment in YDEV 300W. A BCI (state background check) is required.

Offered: Fall, Spring.

YDEV 352W - Seminar in Youth Development (3)

This foundational seminar in the youth development program provides a framework to integrate the multidisciplinary approaches of education, social work, and nonprofit studies. (Formerly FNED 352). This is a Writing in the Discipline (WID) course.

Prerequisite: FNED 246, SWRK 240, and concurrent enrollment in YDEV 353.

Offered: Fall.

YDEV 353 - Field Experience in Youth Development (1)

Students will complete 15-30 hours of fieldwork within an organization that serves children and/or youth.  Fieldwork includes observations, interviews, and a small project. 2 contact hours.

Prerequisite: FNED 246, SWRK 240, and concurrent enrollment in YDEV 352W.

Offered: Fall.

YDEV 412 - Advanced Issues in Youth Development (3)

Students will synthesize skills, knowledge, and competencies necessary for success in youth development work.

Prerequisite: YDEV 352, YDEV 353, and concurrent enrollment in YDEV 413.

Offered: Spring.

YDEV 413 - Internship in Youth Development (4)

Students will complete a semester-long internship at an organization that serves children and/or youth. This course satisfies the Non-Profit Studies Certificate elective course requirement. 12 contact hours.

Prerequisite: YDEV 352, YDEV 353, and concurrent enrollment in YDEV 412.

Offered: Spring.

YDEV 501 - Youth Development Theory And Practice (4)

Students will develop skills and knowledge of youth development theory, pedagogy and practice.

Prerequisite: Admission to Youth Development M.A. Program.

Offered: Fall.

YDEV 502 - Youth Development Community Retreat (1)

Students will develop skills and frameworks for community building and anti-racist youth development practice.

Prerequisite: Enrollment in YDEV 501.

Offered: Fall.

YDEV 510 - Field-Study in Youth Development (1)

Students will observe and analyze high quality local youth development programs.

Prerequisite: YDEV 501 or permission of instructor.

Offered: Spring (as needed).

YDEV 520 - Youth Social Policy and Action (4)

Students will explore connections between policy and the lives of young people, focusing on how youth have engaged activist tools to develop, impact and reform public policy.

Prerequisite: YDEV 501 or permission of instructor, must be concurrently enrolled in YDEV 521.

Offered: Spring.

YDEV 521 - Youth Social Policy In The Field (1)

In this course students will work with a local YDEV organization to understand their policy/activist agenda and collaborate on a youth social policy research project.

Prerequisite: YDEV 501 or permission of instructor, must be concurrently enrolled in YDEV 520.

Offered: Spring.

YDEV 540 - Leadership in Youth Development (4)

Students will develop foundational knowledge and skills in the leadership and management of youth development organizations alongside a critical social analysis of the field.

Prerequisite: YDEV 501 or permission of instructor.

Offered: Summer.

YDEV 560 - Youth Development Research and Evaluation (4)

Students will explore historical and contemporary foundations of program evaluation in youth development spaces.

Prerequisite: YDEV 501 or permission of instructor, must be concurrently enrolled in YDEV 561.

Offered: Fall.

YDEV 561 - Field Work in Research/Evaluation (1)

In this course (together with YDEV 560), students will collaborate with a local youth development organization to carry out original program evaluation research.

Prerequisite: YDEV 501 or permission of instructor, must be concurrently enrolled in YDEV 560.

Offered: Fall.

YDEV 590 - Directed Study In Youth Development (4)

With the guidance of faculty, students develop a thesis-level capstone project in the form of 1) a research study; 2) a community action project; 3) a grant proposal; or 4) a teach-out.

Prerequisite: Enrollment in YDEV M.A. program and completion of all other required courses (YDEV 501, YDEV 502, YDEV 520, YDEV 521, YDEV 540, YDEV 560, YDEV 561).

Offered: Spring.

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