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ACG 2021 Core Concepts in Accounting I
Accounting information needs of various stakeholders, including managers, owners and creditors (capital markets), governmental agencies, and others. Topics include accounting and business vocabulary, the accounting process, income measurements, cash flow analysis, assets, liabilities, and financial statement content and analysis.

Prerequisites: CGS 1100 for level UG with min. grade of C

ACG 2071 Core Concepts of Accounting II
Introduction to core concepts of financial and managerial accounting; focus on managerial decision making and information needs of managers. Topics include break-even analysis, traditional and non-traditional measures of performance, capital budgeting, TQM, ISO-9000, and the global economy.

Prerequisites: ACG 2021 for level UG with min. grade of C

ACG 2091 Accounting Tools
A course designed to prepare students to major in accounting. Course topics focus not only on gaining a clear understanding of business transactions, but also on how to use accounting facts and procedures in various business contexts. (May be taken concurrently with ACG 2071)

Prerequisites: CGS 1100 for level UG with min. grade of B and ACG 2021 for level UG with min. grade of B

ACG 3103 Financial Report & Analysis I
Studies the measurement, reporting, and analysis of financial information under generally accepted accounting principles (GAAP). Selected topics include standard setting, conceptual framework, accounting process, financial statements, time-value of money, cash, current and long-term liabilities, and an introduction to receivables, inventory, property plant and equipment, stockholders’ equity.

Prerequisites: ACG 2071 for level UG with min. grade of B and ACG 2091 for level UG with min. grade of B and ACG 2021 for level UG with min. grade of B and CGS 1100 for level UG with min. grade of B

ACG 3113 Financial Report & Analysis II
Studies the measurement, reporting, and analysis of financial information under generally accepted accounting principles (GAAP) beyond Financial Reporting & Analysis I. Selected topics include stockholders' equity, earnings per share, investments, revenue recognition, income tax accounting, pensions, leases, accounting changes, cash flows, and full disclosures in Financial Reporting.

Prerequisites: ACG 3103 for level UG with min. grade of C

ACG 3341 Cost Accounting
A thorough study of the principles and techniques used to accumulate costs for inventory valuation, product, service pricing and managerial decision making. Topics include problems and procedures related to job-order, process, and activity based costing systems, as well as budgeting, standard costing and variances and cost allocations.

Prerequisites: ACG 2071 for level UG with min. grade of B and CGS 1100 for level UG with min. grade of B

ACG 3401 Accounting Information Systems
Primary processes, or cycles, of organizations, and the risks associated with each event in the processes. Emphasis is placed on controlling risks and minimizing the potential impact they have on businesses. Topics include sales cycle, purchases cycle, payroll cycle, controls, general ledger architecture, and event based information systems.

Prerequisites: ACG 2071 for level UG with min. grade of B and ACG 2021 for level UG with min. grade of B and ISM 3011 for level UG with min. grade of C

ACG 4501 Government & Not-For-Profit
Application of financial and managerial accounting and auditing principles and theory to both governmental and not-for-profit entities.

Prerequisites: ACG 3103 for level UG with min. grade of C

ACG 4632 Independent Audit I
Studies the role of the auditor and client in independent audits guided by generally accepted auditing standards (GAAS). The auditing profession, process, and applications provide the foundation for this course.

Prerequisites: ACG 3401 for level UG with min. grade of C and ACG 3113 for level UG with min. grade of C

ACG 4684 Fraud Investigation
The course furthers problem solving ability by increasing the student's knowledge of modern fraud and financial investigations. Topics covered include the nature of fraud, detecting and preventing fraud, and various methods of proof for investigations.

Prerequisites: ACG 3103 and ACG 4632 and BUL 3320

ACG 4901 Directed Study in Accounting
Students explore current topics in accounting. A detailed research project must be completed under faculty supervision. (Senior standing and permission of instructor required)

ACG 4939 Special Topics in Accounting
Topics of special or current interest, such as history and evolution of accounting standards, accounting methods for specific industries, and emerging issues. (Senior standing)

ACG 4940 Accounting Internship
Supervised work experience in accounting. Students must obtain prior approval from the Accounting Internship Coordinator and submit a written report at the end of the internship. (S/U only)

Prerequisites: ACG 3103 for level UG with min. grade of C

ACG 5655 Independent Audit II
Expands upon Independent Audit I to include topics on the development of auditing as a profession and the current issues faced by those in the profession. Readings are drawn primarily from contemporary literature in the field. In addition, reviews and compilations, international auditing issues, and governmental auditing will be covered.

Prerequisites: ACG 4632

ACG 6025 Actting Fundamentals for Mgrs
A study of the users and uses of accounting information for decision making. The economic impacts of business transactions and the flow of related data through accounting information systems are explored. Topics include accounting systems, data needs of different users of accounting information, accrual vs. cash flow measures of performance, cost systems, and decision analysis tools. (Course does not meet Florida CPA requirements.)

ACG 6075 Managerial Accounting
An examination of the role of accounting information in managing economic organizations. Emphasis on the efficient allocation and
acquisition of resources and the need for managers to recognize and respond to challenges and opportunities in a high-tech, global market economy.

Prerequisites: ACG 6025

ACG 6135 Accounting Theory 3 credits
Analysis of trends in accounting through the review of various professional publications and official pronouncements. Completion of an in-depth review of a current topic is required.
Prerequisites: ACG 3113

ACG 6205 Acct for Complex Organizations 3 credits
The application of generally accepted accounting principles to corporations with investments in subsidiaries. Topics include the preparation of consolidated financial statements and consideration of other complicating factors, such as minority interest, intercompany transactions, and an introduction to international operations. In addition, the accounting issues of bankruptcy, partnerships, branch operations, leveraged buyouts and takeovers are covered.
Prerequisites: ACG 3113

ACG 6255 International Accounting 3 credits
Introduces students to financial statements prepared by non-US based businesses. Topics include the differences in accounting standards between those that prevail in the US and those of the host country, and the cultural differences between the countries. Particular attention is paid to business entities based in the Greater Caribbean Basin and Western Europe.
Prerequisites: ACG 3113

ACG 6257 Global Reporting (IFRS)& Audit 3 credits
This course evaluates Generally Accepted Accounting Principles and International Financial Reporting Standards as well as the international dimensions of auditing. Consideration is given to international organizations and the role of regulators.
Prerequisites: ACG 3113

ACG 6346 Advanced Cost Accounting 3 credits
Advanced study of issues facing accountants in industry. Topics include the Statements on Management Accounting, environmental accounting, target costing, balanced scorecard technique for measuring total business unit performance, and financial measures of performance such as economic value added.
Prerequisites: ACG 3341

ACG 6405 Adv Acct Information Systems 3 credits
Builds on systems and accounting knowledge gained in undergraduate programs. (Prerequisite may be waived with permission of instructor.)
Prerequisites: ACG 3401

ACG 6905 Directed Study in Accounting 1 to 3 credits
Individual study and research under faculty direction. Topics vary and are usually selected on an individual basis. Detailed project and/or paper must be completed. (Permission of instructor and department required)

ACG 6935 Special Topics in Accounting 1 to 4 credits
A comprehensive survey of selected contemporary issues and topics in accounting at the graduate level. Individual investigation and reporting emphasized in seminar fashion.

ACG 6940 Accounting Internship 3 credits
An experiential learning exercise that allows for practical application of knowledge acquired in the classroom. S/U only.
(Permission of department required)
Prerequisites: ACG 3103 and ACG 3401

ADV 3001 Creative Strategy 3 credits
The development of effective strategies and creative executions used in advertising communications including skill-building preparation of creative briefs, copywriting, and design for print, broadcast, out-of-home, and alternative media.
Prerequisites: ADV 3008 for level UG with min. grade of C and MAR 3023 for level UG with min. grade of C

ADV 3008 Principles of Advertising 3 credits
Introduction to the role of advertising communication in society, business and economics. Topics include historical perspectives, ethics, research and evaluation, objective setting/strategies planning for creativity, and mass media, within marketing planning. (Junior standing required)

ADV 3101 Promotional Writing & Design 3 credits
Introduction to promotional writing across various media and visualizing work using Adobe InDesign. A skill development seminar in a "creative shop" environment covering a range of topics in advertising, public relations, and sales promotion.
Prerequisites: ADV 3008 for level UG with min. grade of C OR MAR 3023 for level UG with min. grade of C

ADV 3300 Advertising Media Planning 3 credits
Strategies and techniques required to develop effective advertising plans, negotiation, media buying, and sales.
Prerequisites: ADV 3008 for level UG with min. grade of C OR MAR 3023 for level UG with min. grade of C

AEB 4025 Amer Agriculture & Society 3 credits
The role of American agricultural industry in society will be investigated. Agricultural technologies, processes and production capacity will be viewed with implications to human society. Class activities and field trips will be an integral part of the course.

AFA 2000 Intro Afr & Diaspora Studies 3 credits
Introduction to the sociological study of the issues of race, sex, and social class, including the treatment of these issues by society. At least 6,000 words of graded written work are required (Gordon Rule).

AFA 3410 African-American Leaders 3 credits
African-American Leaders.

AFA 3900 Directed Readings 1 to 3 credits
Under the guidance and supervision of an instructor, students develop a program of reading and possibly research which fits their individual interest, needs, or topic.

AFA 3910 Directed Independent Study 1 to 3 credits
An opportunity for students to engage in research of their choice in special areas of interest. The research may be carried out on an individual or group basis but must be under the supervision of the instructor. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting.

AFA 3931 Sel. Topics in Afr. & Dias. St 3 credits
An introduction to the sociological study of the issues of race, sex, and social class, examining a number of issues facing American society today and how these issues are inter-related. Special
emphasize will be placed on discussing how these problems are (or are not) dealt with in our society.

AMH 4150 Africa & the United States 3 credits
An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

AMH 4331 Social Inst. & the Afr-Am Comm 3 credits
A study of social institutions as they relate to the Africa-American Community.

AMH 4335 Women of Color in the U.S. 3 credits
An interdisciplinary survey of the contemporary experience of women of color in the United States, including a discussion of the socio-historical and cultural histories, myths and realities of these women.

AFH 3100 African History to 1850 3 credits
An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past.

AFH 3200 African History since 1850 3 credits
Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and post-independence problems of nation building and economic development.

AFH 3454 The Africans 3 credits
History and contemporary life of Africa through its critical indigenous, Islamic, and Western influences. Issues may include African isolation, the development of Islam and Christianity, the development of the international slave trade, and the roots of the continent's economic and social systems.

AFS 2250 Culture & Society in Africa 3 credits
African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AFS 3251 African Environments 3 credits
The natural environments of the African and critical environmental issues are examined within their ecological, cultural, economic, and historical contexts. Multiple sources of information, including scientific data and artistic impression are utilized. Prerequisites: BSC 1051C for level UG with min. grade of C

AMH 2010 US History to 1877 3 credits
Survey of American history from pre-Columbian times through the Civil War. Special emphasis is given to critical social, cultural, and political movements and figures. At least 6,000 words of graded written work are required (Gordon Rule).

AMH 2020 US History Since 1877 3 credits
Survey of American history from the Reconstruction Era through the present. Special emphasis is given to critical social, cultural, and political movements and figures. At least 6,000 words of graded written work are required (Gordon Rule).

AMH 3110 American Colonial Hist to 1750 3 credits
Examines the evolution of American society from the earliest European-Native American contact through the eye of the American Revolution. Emphasis is on the transformation of colonial structures, expansion, ethnocultural issues, the rise of slavery, and the development of representative theories of government.

AMH 3130 AM Revolution/Constitution 3 credits
An examination of the economic, political, and social causes of the American Revolution. The writing and ratifying of the American constitution will be the origins of the Constitution; and the Washington and Adams administrations.

AMH 3141 U.S. History 1800-1860 3 credits
Examines American history from 1800-1860. Special emphasis will be placed on the emergence of political parties and social attitudes as well as government policies toward Native Americans and African Americans.

AMH 3172 The Civil War 3 credits
The American Civil War with emphasizes on the complex causes and lasting effects of this conflict of the battles, home fronts, ordinary soldiers, African-Americans, and military and political leaders of this era.

AMH 3201 The U.S., 1877-1929 3 credits
Examines the nature of American history from the end of Reconstruction through the stock market crash of the late 1920s, emphasizing intellectual, political, economic, and social/cultural trends (including civil rights and feminism).

AMH 3252 The U.S. since 1929 3 credits
Examines American history from the Great Depression through the present, emphasizing intellectual, political, economic, and social trends. Discussions of interrelatedness of these movements and of the diverse character of America.

AMH 3421 Early Florida 3 credits
Examines the history of Florida from the time of its first recorded human inhabitants through the creation of the State of Florida with its distinct local and regional characteristics in the years prior to the Civil War.

AMH 3423 Modern Florida 3 credits
Examines Florida history from the Civil War through contemporary time, emphasizing the dramatically changing social, cultural, political, and economic milieu of the state. Geographical and environmental awareness will underscore all aspects of the course.

AMH 3571 African-Amer History to 1865 3 credits
A survey of the black American experience from it roots in Africa through the Civil War. Emphasis is given to developing a critical understanding of the unique nature of the black American experience and the importance of African-American contributions to American history.

AMH 3572 African-Amer Hist since 1865 3 credits
A survey of the black American experience since the Reconstruction Era. Emphasis is given to developing a critical understanding of the unique nature of the black American experience, the importance of African-American contributions to American history, and the significance of contemporary civil rights.

AMH 3930 Undergrad. Sem. in Amer. Hist. 3 credits
Emphasizes selected historical issues or problems of particular interest to students. Topics may vary and will incorporate interdisciplinary approaches.
AMH 4270  U.S. in the Cold War  3 credits
Examine American involvement in the Cold War. Special emphasis will be placed on the evolution of American foreign policy and how the Cold War affected American culture.

AMH 4428  Southwest Florida History  3 credits
Intensive examination of the regional human experience in Southwest Florida, beginning with the movements of humans into the peninsula 12,000 years ago. Traces the complex developments in this region through European contact, colonialism, statehood, Civil War and Reconstruction, land boom, depression, wartime, and the second land boom modern era.

AMH 4512  Diplomatic History of the U.S.  3 credits
Examines the history of American Diplomacy from its formation during the Revolutionary era to the present. Emphasis will be placed on how American social development has influenced its diplomacy.

AMH 4550  Constitutional Hist of the US  3 credits
The origins and growth of American constitutional theory from colonial times to the present. Emphasis will be placed on the role of the Supreme Court in relation to political and constitutional issues.

AMH 6116  American Colonial Hist  3 credits
Examines the evolution of American society from the earliest European-Native American contact through the eve of the American Revolution. Emphasis is on the transformation of colonial structures, expansion, ethnocultural issues, the rise of slavery, and the development of representative theories of government.

AMH 6139  Revolutionary America  3 credits
Examines the political, social and economic history of British America, 1760-1788 from the end of the Seven Years War to the administration of John Adams.

AMH 6155  U.S. 1800-1860  3 credits
Examines the political and cultural history of the United States from the election of Thomas Jefferson to the secession of South Carolina from the union.

AMH 6207  U.S. History since 1929  3 credits
Examines American history from the Great Depression through the present, emphasizing intellectual, political, economic, and social trends. Discussion of interrelatedness of these movements and of the diverse character of America.

AMH 6278  U.S. in the Cold War  3 credits
This course focuses on the political and cultural issues faced by the United States during the period of the Cold War. Special attention is given to the movement from isolationism to interventionism, McCarthyism, and the rise of postwar conservatism.

AMH 6424  Modern Florida  3 credits
Examines Florida history from the Civil War through contemporary time, emphasizing the dramatically changing social, cultural, political, and economic milieu of the state. Geographical and environmental awareness will underscore all aspects of the course.

AMH 6576  African-Amer Hist to 1865  3 credits
An examination of the black American experience from its roots in Africa through the Civil War. Emphasis is given to developing a critical understanding of the distinct nature of the black American experience and the importance of African-American contributions to U.S. history.

AMH 6577  African-Amer Hist since 1865  3 credits
An examination of the black American experience since the Reconstruction Era. Emphasis is given to developing a critical understanding of the unique nature of the black American experience, the importance of African-American contributions to American history, and the significance of contemporary civil rights.

AMH 6915  Research American History  3 credits
Research in primary and secondary sources on aspects of important subjects in American history.

AMH 6939  Seminar in American History  3 credits
Readings seminar in selected topics and problems in American history.

AML 2010  Literature & Culture of US, I  3 credits
Survey of the literature of the United States from Native American Oral Traditions to the Civil War. Centers on both canonical and marginal texts in their cultural and historical contexts.

AML 2020  Literature & Culture of US, II  3 credits
Survey of the literature of the United States from the Civil War to the present. Centers on both canonical and marginal texts in their cultural and historical contexts.

AML 3213  Early American Lit & Culture  3 credits
Readings course on the literature and culture of the exploration and colonization of the new world, as well as of the early national period of the United States. Intense study of authors/works and their contexts.

AML 3220  19th Cent US Lit & Culture  3 credits
Readings course on the literature and culture of the nineteenth century in the United States. Intense study of authors/works and their contexts.

AML 3242  20th Cent US Lit & Culture  3 credits
Readings course on the literature and culture of the twentieth century in the United States. Intense study of authors/works and their contexts.

AML 4111  US Novels of the 19th Century  3 credits
Seminar beginning with the rise of the novel in the United States in the eighteenth century and then charting its development to the Modern era. 
Prerequisites: ENG 3014

AML 4121  US Novels of the 20th Century  3 credits
Seminar on the novel in the United States in the twentieth-century. 
Prerequisites: ENG 3014

AML 4261  Literature of the South  3 credits
Seminar on critical study of various Southern writers in the United States in their historical contexts. 
Prerequisites: ENG 3014

AML 4265  Florida Writers  3 credits
Seminar on writers who have lived in and/or written about Florida, such as Hemingway, Hurston, Rawlings, and Stevens.
Prerequisites: ENG 3014

AML 4300  Selected Authors from U.S.  3 credits
Seminar on selected writers from the United States. This course
may be repeated with a change of content for up to 6 hours. Prerequisites: ENG 3014

AML 4604 Seminar in African-Amer Lit 3 credits
Seminar on selected topics in African-American Literature, including such topics as the Slave Narrative, the Harlem Renaissance, Contemporary African-American Literature, or a selection of African-American writers. Prerequisites: ENG 3014

AML 4624 Lit by Women of Color 3 credits
Seminar on contemporary women writers of color in the United States: Native-Americans, Asian-Americans, African-Americans, and Latinas. This course is cross-listed under WST 4262. Prerequisites: ENG 3014

AML 4630 Latino Literature 3 credits
Readings course exploring the multiple identities designated by the term "Hispanic" in the United States as they are represented in literature. Surveys the diversity of Latino poetry and fiction, including works by both popular and lesser-known Hispanic writers. Prerequisites: ENG 3014

AML 4703 The Immigrant Exp in Lit of US 3 credits
Readings course traces the diverse cultural history of the United States from the 19th century to the present by examining various literary accounts of the immigrant experience. Exploration of the ways that ethnic assimilation tales both reflect and subvert a "melting pot" ideology and consideration of the influence of "new ethnicity" movements on the status of ethnic literature in the post-60s United States. Prerequisites: ENG 3014

AML 4713 Working-Class Lit in U.S. 3 credits
Seminar tracing the development of a working-class literary tradition in the United States from its roots in sketches of industrial life of the 19th century to urban portraits of contemporary ghetto life.

AML 4930 Selected Topics/Amer Lit 3 credits
Seminar with in-depth study of a particular topic or issue as it is dealt with in United States literature and culture. Prerequisites: ENG 3014

AML 6017 American Literature to 1860 3 credits
Studies in American Literature to 1860.

AML 6027 Lit. of the U.S. after 1900 3 credits
Examines literature and criticism within the cultural context of the United States since the beginning of the twentieth century.

AML 6268 Regional U.S. Literature 3 credits
A study of the literature and culture of a particular geographic region of the United States.

AML 6305 Major U.S. Authors 3 credits
Examines the life and works of one or more U.S. authors. May be repeated once with a change in content.

AML 6907 Directed Individual Study 3 credits
Individual Study in American Literature by graduate students under direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

AML 6910 Directed Research 3 credits
Supervised research in preparation for writing a thesis on a topic in the literature of the U.S. Approval of the coordinator of graduate studies required.

AML 6930 ST: US Literature and Culture 3 credits
Focused study of a specific topic or issue in the literature and culture of the United States. Course may be repeated once with a change in content.

AMS 3700 Racism in American Society 3 credits
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied.

ANG 6267 Cultural Ecology 3 credits
Cultural ecology is the anthropological study of the relationships between humans and their environments. In 1962 Charles Frake defined it as the "study of the role of culture as a dynamic component of any ecosystem of which man is [humans are] a part." In this class we are concerned with human adaptation to our environments, a subject which has intrigued anthropologists throughout the development of the discipline, but in particular since the mid 20th century.

Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 2000 Intro to Anthropology 3 credits
A study of human species from both a biological and social perspective. The course surveys four major branches of anthropology: physical anthropology, archaeology, linguistic anthropology, and cultural anthropology.

ANT 2100 Introduction to Archaeology 3 credits
The historical and theoretical backgrounds of Archaeology, the goals and methods of Archaeology, and Archaeological fieldwork techniques.

ANT 2211 Peoples of the World 3 credits
Survey of the world's known cultures by major geographic region. Topics cover the range and variety of the human condition. At least 6,000 words of graded written work are required (Gordon Rule).

ANT 2410 Cultural Anthropology 3 credits
Introduction to human diversity as expressed through communities and ethnic groups worldwide.

ANT 2511 Intro to Physical Anthropology 3 credits
The evolution of humankind and range and extent of modern human physical diversity. Topics may include primates, paleoanthropology, anthropometry and range methods and techniques employed in this field. Fee Required

ANT 3141 Dev. of World Civ. 3 credits
Discussion of archeological evidence for the development of civilization in its regional variants from the earliest beginning to the dawn of written history. Analysis of causes of cultural development in Old and New World centers. Prerequisites: ANT 2000 OR ANT 2410 OR ANT 2100

ANT 3143 Archaeology of Europe 3 credits
Explores and analyzes the sequence of cultural development in prehistoric Europe. A variety of cultures and culture areas including Nordic, Celtic, Pictish, Roman and Phonecian are
ANT 3158 Florida Archaeology 3 credits
Explores the cultural expressions of Florida's indigenous people from the Paleoindian period through the time of European contact and subsequent conquest. Overviews the temporal, cultural and spatial relationships within Florida and the broader regional archaeology.
Prerequisites: ANT 2100 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR ANT 2000 for level UG with min. grade of C

ANT 3231 Introduction to Folklore 3 credits
Introduction to the cross-cultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture.

ANT 3305 Anthropology of the Coastal Zone 3 credits
Applies anthropological perspectives to the study of coastal communities including past and present human adaptations to coastal environments, as well as environmental degradation and policy issues. Covers a wide range of cultures, including Florida, Caribbean and Southeast Asia.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR SYG 2000 for level UG with min. grade of C

ANT 3312 Native American Cultures 3 credits
Introduction to the diversity of Native American cultures through ethnographic description examining adaptive responses to the environment and culture contact.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 3340 Caribbean Cultural Patterns 3 credits
Introduction to human diversity as expressed through state, communities and ethnic groups of the Caribbean region.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 3390 Visual Anthropology 3 credits
This course explores ways to accomplish a holistic vision in the field of anthropology through photography, cinematography, videotaping, and the display of material culture artifacts. It emphasizes the potential of using one or another kind of seeing with critical eye as an essential tool to achieve greater accuracy in the representation of ethnographic material and images. Visual Anthropology explores past and current cultural representations through museum exhibits, films, and photographs.
Prerequisites: ANT 2000 OR ANT 2410

ANT 3403 Cultural Ecology 3 credits
The study of the relationships between humans and their environments. Emphasis on the adaptive importance of culture and the modifications made to environments by humans to achieve better fit. Topics may include social structures, behavioral norms, belief systems, values, ethics, and technology.
Prerequisites: ANT 2000 OR ANT 2410 for level UG with min. grade of C

ANT 3461 Folk Medicine 3 credits
This course examines traditional medical systems and contemporary alternative medicine and related cultural beliefs, behavior, and taboos. The course includes the role of the traditional healer, ethnobotany, and the relationship to biomedicine.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 3467 Anthropology of Food 3 credits
Explores how food and food related activities are woven into biological, economic, historic and social aspects of human behavior. With a variable regional focus, students will consider how all foodways including their own relate to biological requirements within cultural contexts.
Prerequisites: ANT 2100 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR ANT 2000 for level UG with min. grade of C

ANT 3495 Methods in Anthro Research 3 credits
Introduction to qualitative and quantitative data collection through ethnography, cognitive domain analysis, ethnographic decision modeling, survey creation, and data collection and analysis. The goal of the course is to present an overview of methods available for research and to apply one of the techniques in depth to a community issue.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 3520 Forensic Anthropology 3 credits
Forensic anthropology is a survey and analysis of the human anatomy with specific attention to injuries and death pertaining to wrongful criminal conduct and the decomposition of the tissues and skeletal remains. The curriculum also delinates anatomy pursuant to age, sex, and race.
Prerequisites: ANT 2511 for level UG with min. grade of C

Fee Required

ANT 3610 Language and Culture 3 credits
This course is an applied approach to anthropological linguistics focusing on methods to develop materials for language retention programs in cultures without a written tradition. The goals of the course are to understand the importance of language in cultural identity and the problems faced by minority populations in language retention. Material will cover language structure, description and analysis, language acquisition, language loss, comparative studies of speech, communication, and sociolinguistics.
Prerequisites: ANT 2410 for level UG with min. grade of C

ANT 3640 Language and Culture 3 credits
An applied approach to anthropological linguistics focusing on methods to develop materials for language retention programs in cultures without a written tradition. The goals of the course are to understand the importance of language in cultural identity and the problems faced by minority populations in language retention. Material will cover language structure, description and analysis, language acquisition, language loss, comparative studies of speech, communication, and sociolinguistics.
Prerequisites: ANT 2410 for level UG with min. grade of C

ANT 3824 Archaeological Field Methods 6 credits
This six-credit field practicum covers many aspects of archaeological field work methods including: reconnaissance survey, site mapping and stratigraphic excavation. Students also gain experience in the use of survey equipment, cartographic
illustration and statistical analysis.
Prerequisites: ANT 2100 for level UG with min. grade of C OR ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR ANT 2511 for level UG with min. grade of C

ANT 3824L Archaeological Field Lab  3 credits
This three-credit laboratory course complements the archaeological field course. Offered concurrently or separately, the course covers post-excavation analysis and interpretation methods. Students also gain experience in cataloging, curation, preservation and statistical analysis.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2100 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR ANT 2511 for level UG with min. grade of C

ANT 3905 Ind. Study in Anthropology  3 credits
Individual study by students under the direction of a faculty member.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C OR ANT 2100 for level UG with min. grade of C

ANT 4034 History of Anthro Thought  3 credits
A survey of the major schools of anthropological thought taught from an historical perspective. In addition to understanding the background of scientific anthropology, students will become versed in humanistic approaches to contemporary theory.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 4241 Magic and Religion  3 credits
Cross-cultural study of the social and cultural aspects of religion. Topics may include religious and magic the traditional and modern societies, and activities in ritual behavior, religious practitioners and symbols of belief and their impact on the social, political or economic aspects of peoples' lives.
Prerequisites: ANT 2410 for level UG with min. grade of C OR ANT 2000 for level UG with min. grade of C

ANT 4311 Southeastern Native Americans  3 credits
Survey of prehistoric and historic cultural conditions of the Southeastern United States by focusing on major culture areas. Specific tribes including the indigenous people of Florida will be detailed in ethnography.
Prerequisites: ANT 2000 for level UG with min. grade of D

ANT 4317 Cultures of the Contemp. South  3 credits
The diversity of the contemporary South through ethnography with special attention to the concept of community, change, and continuity in the region. Contemporary issues facing the area are investigated from an historical perspective.

ANT 4462 Medical Anthropology  3 credits
An examination of illness, behavior, biomedical and traditional healing systems from a comparative perspective. Provides insights into the inter-relatedness of technology, ecology, and health in larger populations. Work are required.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2511 for level UG with min. grade of C

ANT 4701 Applied Anthropology  3 credits
Applied anthropology is the practical application of any or all of the subfields of anthropology: cultural, archaeology physical, and linguistic, to problem-solving in the real world.
Prerequisites: ANT 2410 for level UG with min. grade of C OR ANT 2000 for level UG with min. grade of C

ANT 4930 Special Topics in Anthropology  3 to 6 credits
Specialized subjects and topics in anthropology. Topics may vary. May be repeated to a maximum of 9 credit hours which topics vary.
Prerequisites: ANT 2000 for level UG with min. grade of C OR ANT 2100 for level UG with min. grade of C OR ANT 2410 for level UG with min. grade of C

ANT 4931 Senior Seminar in Anthropology  3 credits
Capstone experience focusing on student's individual research interests and reflection of personal, intellectual development through anthropology.

ANT 4940 Anthropology Internship  3 credits
This course provides students with experiential learning and opportunity to employ anthropological perspective, and methods in settings beyond classroom.

APK 2930 Selected Topics: Human Perform  1 to 4 credits
Current concepts, selected problems or issues pertaining to Human Performance are examined by program majors. Topics vary according to recent developments in Human Performance.

APK 3312 Pharm & Ergo Aids Sport & HP  2 credits
Examines the function of pharmacological and ergogenic aids as they relate to exercise and injury management. Integrates the knowledge, skill and professional responsibility within pharmacologic and ergogenic aid application.

APK 3931 Selected Topics: Human Perform  1 to 4 credits
Current concepts, selected problems or issues pertaining to Human Performance are examined by program majors. Topics vary according to recent developments in Human Performance.

APK 4100L Applied Exercise Physiology  3 credits
Students explore in detail the acute and chronic responses to exercise. This course will explore metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to human performance and sport.
Prerequisites: PHT 3177C
Fee Required

APK 4112 Sport & Human Exer Psychology  3 credits
Students explore in detail concepts related to the psychological aspects surrounding sport and human performance. This course explores psychological concepts and principles from an applied perspective to human performance and sport. Additional Information: Students will have the opportunity to practice skills related to psychological constructs of physical fitness program design and human performance.
Prerequisites: PSY 2012

APK 4113C Adv Methods of Strength & Cond  3 credits
Examination of advanced methods on developing muscular fitness for health and skill-related fitness. Course also explores advanced
physical fitness conditioning techniques for apparently health populations and special populations. Students may enroll in this course with permission of instructor only.
Prerequisites: APK 4125C OR APK 3006C
Fee Required

APK 4120C  Clinical Exercise Physiology 3 credits
Studies exercise physiology in populations that have been diagnosed with cardiac, pulmonary, metabolic and musculoskeletal diseases.
Prerequisites: PET 4380C OR APK 4110L

APK 4122L  Environmental Exercise Phys 3 credits
Study of physiological responses in human performance to environmental stressors.
Prerequisites: APK 4110L

APK 4123  Human Perf and Energy Supplies 2 credits
Examination of relationship between macronutrients, micronutrients, metabolic intermediates to human performance.

APK 4125C  Fitness Assess/Ex Prescription 3 credits
Examination of physical fitness assessment techniques, procedures and protocols, including how to prescribe exercise for apparently healthy populations and special populations.

APK 4285  Lifespan Development 2 credits
Explores dimensions of development across the lifespan. Development across domains for each age group is examined within the context of society and culture. Attention is paid to individual differences and variations in development and aging.

APK 4930  PDS II Prep for Entering 1 credits
Investigates the aspects of entering health and wellness professions including preparation for the national examinations, licensure, negotiating employment, career development and consultation.

APK 4941L  Experiential Learning I 4 credits
Community-based experience providing an opportunity for the student to apply previously learned concepts and skills.

APK 4948L  Experiential Learning II 2 credits
Community-based experience providing an opportunity for the student to apply previously learned concepts and skills. Additional Information: Students work under the direct supervision of a community professional. Faculty advisors monitor student progress. Practice settings and course activities vary and are negotiated between the student and the course faculty. Fee Required

ARE 4313  Art for the Child 3 credits
Art for the child methods and materials of using art in the elementary classroom.

ARH 2050  History of the Visual Arts I 3 credits
Introductory survey of artistic styles and traditions from ancient through medieval periods. Emphasis is placed on studying works within their historical and cultural contexts. This course fulfills a Humanities requirement in General Education.

ARH 2051  History of the Visual Arts II 3 credits
Introductory survey of artistic styles and traditions from the Renaissance through contemporary periods. Emphasis is placed on studying works within their historical and cultural contexts. This course fulfills a Humanities requirement in General Education.

ARH 2500  Survey of Non-Western Art 3 credits
Introductory survey of styles and traditions in art from African, Asian, Oceanic, and Native American cultures. Emphasis is placed on learning art historical terms and methods, and on placing works within their historical and cultural contexts.

ARH 3170  Greek and Roman Art 3 credits
Survey of art and architecture from ancient Aegean, Greek, Hellenistic, Etruscan, and Roman periods. Emphasis is placed on analyzing works within their historical and cultural contexts.
Prerequisites: ARH 2050 for level UG with min. grade of C

ARH 3200  Medieval Art 3 credits
Survey of art and architecture from Early Christian, Byzantine, Early Medieval, Romanesque, and Gothic periods. Emphasis is placed on analyzing works within their historical and cultural contexts.
Prerequisites: ARH 2050 for level UG with min. grade of C

ARH 3301  Renaissance and Mannerist Art 3 credits
Survey of art and architecture from Italy and Northern Europe during the fourteenth through sixteenth centuries. Emphasis is placed on analyzing works within their historical and cultural contexts.
Prerequisites: ARH 2051 for level UG with min. grade of C

ARH 3430  Nineteenth Century Art 3 credits
Surveys European art, architecture, and decorative arts from the Louis XV period through the age of revolution to realism and post-impressionism. Integrates social, political, and cultural currents of the time, stressing the evolution of modernism.
Prerequisites: ARH 2051 for level UG with min. grade of C

ARH 3450  Twentieth Century Art 3 credits
Surveys twentieth century European modernism including France, Germany, Italy, Russia, the Netherlands and Britain. Covers fauvism, expressionism, cubism, primitivism, futurism, dada, abstract art, surrealism, and related developments in the years immediately following World War II.
Prerequisites: ARH 2051 for level UG with min. grade of C

ARH 3520  African Art 3 credits
Surveys African visual arts, including architecture. Emphasizes the social and political contexts of art in city-states, chiefdoms, and rural settings. Includes traditional genres as well as postcolonial and contemporary art in Africa. Junior standing required.

ARH 3530  Asian Art 3 credits
Survey of art and architecture from India, China, Korea, Japan, and Southeast Asia, covering ancient through contemporary periods. Emphasis is placed on analyzing works within their historical and cultural contexts. Junior standing required.

ARH 3670  Caribbean Art 3 credits
Survey of traditional and contemporary art production in the Caribbean region. Emphasis is placed on analyzing works within their historical and cultural contexts. Junior standing required.

ARH 4905  Directed Independent Study 3 credits
Selected advanced topics for independent study and research in the history of art, with subjects ranging from ancient to contemporary. Permission of instructor required.

ARH 4930  Special Topics in Art History 3 credits
Selected advanced topics in the history of art, with subjects ranging...
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</tr>
</tbody>
</table>
ART 3762 for level UG with min. grade of C or ART 2750C for level UG with min. grade of C

ART 3838 Professional Practices in Art  3 credits
Designed for art majors to provide professional preparation in the art field, including resume writing, photographic documentation, website development, artist statements, exhibition planning, and marketing skills. Lecture format with presentations by guest artists from a range of career tracks. Junior standing required.

ART 3840 Environmental Art  3 credits
Survey of contemporary art movements focusing on the natural world, including lectures, presentations, field trips, and in-depth studio exercises. Junior standing required.

ART 4614 Advanced Computer Imaging  3 credits
Advanced exploration of computer generated images and art forms, including contemporary issues, conceptual and design development, modes of presentation, and professional preparation. Prerequisites: ART 2600 for level UG with min. grade of C or ART 2600C for level UG with min. grade of C

ART 4907 Directed Independent Study  3 credits
Selected advanced topics for independent study and research in studio art. Permission of instructor required.

ART 4921 Painting Workshop  3 credits
Students will identify specific painting-related concerns and create their own body of work addressing those concerns. Contemporary practitioners, portfolio and exhibition practices will be discussed. May be repeated for a maximum of 9 credit hours. Prerequisites: (ART 2500 for level UG with min. grade of C or ART 2500C for level UG with min. grade of C) and (ART 3332 for level UG with min. grade of C or ART 3332C for level UG with min. grade of C or ART 3505 for level UG with min. grade of C)

ART 4922 Sculpture Workshop  3 credits
Intensive studies in contemporary sculptural issues and methods; projects vary depending on skill levels and conceptual interests. Exhibition and installation practices covered, and research in sculpture history included. May be repeated for a maximum of 9 credit hours. Prerequisites: ART 2701 for level UG with min. grade of C or ART 2701C for level UG with min. grade of C

ART 4925 Digital Media Workshop  3 credits
Intensive studies in contemporary issues and methods in digital media/graphic design. Context, content, technical process, and presentation modes are covered, against a framework of the history of digital technologies in art. Course includes both structured and independent studio assignments. May be repeated for a maximum of 9 credit hours. Prerequisites: ART 4614

ART 4928 Ceramics Workshop  3 credits
Intensive studies in contemporary ceramic issues and methods. Both technical proficiency and conceptual integrity will be stressed, with emphasis on the development of a personal aesthetic. May be repeated for a maximum of 9 credit hours. Prerequisites: ART 3768 for level UG with min. grade of C or ART 3762 for level UG with min. grade of C

ART 4930 Special Topics in Art  3 credits
The faculty develops topics of importance to students' interests and needs.

Prerequisites: ART 1203 for level UG with min. grade of C or ART 1203C for level UG with min. grade of C

ART 4940 Art Internship and Seminar  3 credits
Students work in professional art setting, connecting academic training with professional arts practice. Students arrange appropriate position in consultation with art faculty. Periodic seminar sessions required. May be repeated for a maximum of 9 credit hours.

ART 4955 Senior Project  3 credits
Capstone experience for senior art majors focusing on the production of a self-generated body of work that is conceptually strong and technically proficient. Exhibition plans and professional preparation will be stressed. Permission of the instructor required. Prerequisites: ART 4921 for level UG with min. grade of C or ART 4921C for level UG with min. grade of C or ART 4922 for level UG with min. grade of C or ART 4922C for level UG with min. grade of C or ART 4928 for level UG with min. grade of C or ART 4928C for level UG with min. grade of C or ART 4925 for level UG with min. grade of C

ASH 3323 Modern South Asia  3 credits
Traces the establishment and collapse of British power in South Asia from the 18th century to India's Independence and Partition in 1947.

ASH 3404 Modern China  3 credits
A detailed study of the nature and development of modern China from the time of sustained Western contact (17th century) through the present. Provides discussions of the end of dynastic China, the consolidation of socialism, the Maoist upheavals, and the rise of China as an economic trade giant.

ASH 3550 Post-Colonial India  3 credits
History of India after 1947. Major themes will be economic development, cultural and social change, and India's place in the contemporary world.

ASH 4442 History of Modern Japan  3 credits
Examines the social, cultural, political, religious, and economic developments of Japan since 1800. Stresses the rise of Japan as a regional power and the influence of modern Japan as a world trade power.

ASH 6915 Research Asian History  3 credits
Research in primary and secondary sources on aspects of important subjects in Asian history.

ASH 6939 Seminar in Asian History  3 credits
Readings seminar in selected topics and problems in Asian history.

ASL 2140 Basic American Sign Language  3 credits
Introduction to American Sign Language as used in the deaf community. General discussion of ASL systems and philosophies. Emphasis on building a basic vocabulary. One-hour labatory course (ASL 2140L) to be taken concurrently. Corequisites: ASL 2140

ASL 2140L Basic American Sign Lang. Lab  1 credits
A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment at each level of sign language is required. Corequisites: ASL 2140
ASL 2150  Intern American Sign Language  3 credits
A continuation of the basic course which expands the student's signing skills and introduces American Sign Language idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic language. One-hour laboratory course to be taken concurrently.
Prerequisites: ASL 2140 and ASL 2140L
Corequisites: ASL2150L

ASL 2150L  Intern American Lang. Lab  1 credits
A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment in ASL 2150.
Corequisites: ASL2150

ASN 2005  Introduction to Asian Studies  3 credits
Overview of Asian civilizations, including art, literature, music, philosophy, history, and politics.

ASN 2011  Civ of Asia: China and Japan  3 credits
A survey of Chinese and Japanese civilization and culture. Subjects to be studied include the history, geography, anthropology, religion, economy, and politics of China and Japan from ancient times to the present.

ASN 3023C  Biochemistry  3 credits
The biochemistry of proteins, lipids, carbohydrates, and nucleic acids will be investigated. The principles of enzymology, metabolism and bioenergetics will be investigated. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.
Prerequisites: CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C)

BCH 3025C  Analytical Biochemistry  3 credits
An examination of the aspects of chemical analysis within a sample that has direct biological relevance.
Prerequisites: BCH 3023C for level UG with min. grade of C (may be taken concurrently)

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Prerequisites: BCH 3023C for level UG with min. grade of C (may be taken concurrently)
Prerequisites: EGN 1041C for level UG with min. grade of C and
BSC 1010C for level UG with min. grade of C and CHM 1046C for
level UG with min. grade of C and PHY 2049C for level UG
with min. grade of C and MAP 2303 for level UG with min. grade
of C

BME 3404C Human Physiology Engineers II  3 credits
Second course in a quantitative two semester sequence on human
physiology for engineers. Includes the cardiovascular system; blood,
bleed flow, and control of blood pressure; mechanics of
breathing; gas exchange and transport; the kidneys; fluids and
electrolyte balance; digestion; energy balance and metabolism;
edocrine control of growth and metabolism; the immune system;
exercise physiology. Integrates modeling and simulation of
physiological systems as well as computer-based experimentation.
Prerequisites: BME 3403C for level UG with min. grade of C

BME 4211C Biomechanics 3 credits
This course begins with an overview of mechanics applied to
bioengineering, including statics and dynamics of human
movement. Students will draw upon skills learned in engineering
mechanics and biomaterials. Applications of biomechanics will be
discussed in gait analysis, orthopedics, and sports assessment.
Instrumentation important to biomechanics will be covered to
provide a general understanding of applications in research and
industry.
Prerequisites: BME 3100C for level UG with min. grade of C and
BME 3404C for level UG with min. grade of C

BME 4503C Biomedical Instrumentation 3 credits
Design and applications of biomedical instruments and devices.
Includes biopotential electrodes and amplifiers, cardiovascular
and respiratory measurements, clinical laboratory instruments,
therapeutic and diagnostic devices, medical imaging systems, and
electrical safety.
Prerequisites: EGN 3374C for level UG with min. grade of C

BME 4504C Bioelectricity 3 credits
Fundamental concepts in bioelectricity. Includes both theory and
application of knowledge in engineering and electrophysiology to
design and use of medical and laboratory devices and diagnostic
systems.
Prerequisites: BME 3404C for level UG with min. grade of C and
BME 4503C for level UG with min. grade of C

BME 4632C Biotransport Phenomena 3 credits
The quantitative description of momentum, heat and mass
(convection and diffusion) transport in living systems. Application
of engineering methods to model and quantify transport aspects of
biological and medical systems.
Prerequisites: BME 3261C for level UG with min. grade of C and
BME 3404C for level UG with min. grade of C

BME 4722C Health Care Engineering 3 credits
In this class, students use the engineering design method and Six
Sigma concepts to solve problems pertinent to health care
industries, e.g., hospitals, clinics, and research labs, as well as
problems related to design development in industry. Specific topics
include methods of problem solving, data gathering, statistical
methods of data analysis, and developing solutions.
Prerequisites: BME 4800C for level UG with min. grade of C

BME 4800C Bioengineering Product Design 3 credits
Introduction to the engineering design process as applied to
bioengineered products. Focus on technical, regulatory, legal,
ethical, economic, and social aspects of medical device, biologic
and combination product designs, development and
commercialization. Includes existing product benchmarking and
provides and introduction to modern engineering software tools for
biomedical product design.
Prerequisites: BME 3100C for level UG with min. grade of C and
BME 3403C for level UG with min. grade of C and EGN 3833C
for level UG with min. grade of C and EGN 3373C for level UG
with min. grade of C and STA 2037 for level UG with min. grade
of C

BOT 3015C The Lives of Plants and Algae 3 credits
This course examines the origins and diversification of plants and
algae and their fundamental significance to life on earth. The roles
of photosynthesis, symbiosis, and adaptation will be central themes.
Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L)) and
(BSC 1011C OR (BSC 1011 and BSC 1011L))

BOT 3153 Flora of Southwestern Florida 3 credits
Principals and practical aspects of the identification, morphology,
and ecology of species of vascular plants composing the flora of
Southwestern Florida. Included, are field trips (one per class
meeting), lectures, and laboratory exercises.

BOT 4394C Plant Molecular Biology 3 credits
An examination of aspects of molecular biology that apply to the
plant kingdom. Plant gene regulation, methods of gene cloning and
transformation, and biotechnological applications will be discussed.
Prerequisites: PCB 4522C for level UG with min. grade of C and
BOT 2503C for level UG with min. grade of C

BOT 4503C Plant Physiology 3 credits
An overview of the processes that take place in plant cells and
organs. Topics include the mechanisms by which plants obtain their
nutrients and synthesize required molecules and structures, and the
role played by internal and environmental factors in plant growth
and development.
Prerequisites: (BSC 1010C for level UG with min. grade of C OR
(BSC 1010 for level UG with min. grade of C and BSC 1010L for
level UG with min. grade of C)) and (BSC 1011C for level UG
with min. grade of C OR (BSC 1011 for level UG with min. grade
of C and BSC 1011L for level UG with min. grade of C)) and
(CHM 2211C for level UG with min. grade of C OR (CHM 2211
for level UG with min. grade of C and CHM 2211L for level UG
with min. grade of C))

BOT 4601C Plant Ecology 3 credits
Explores the interactions of plants with their biotic and abiotic
environment at scales ranging from the organism to the ecosystem.
Investigates how plants interact with their environment, including
the mechanisms used by plants to cope with the environmental
stresses.
Prerequisites: (BSC 1010 and BSC 1010L) OR BSC 1010C and
(BSC 1011C OR (BSC 1011 and BSC 1011L)) and PCB 3043C

BSC 1005 Biological Science 3 credits
Major concepts in modern biology including cellular biology, plant
biology, human biology, genetics, evolution, behavior, and
ecology.
Corequisites: BSCI05L

BSC 1005L Biological Science Laboratory 1 credits
Laboratory exercises that provide hands on and/or simulated
experiences for the major concepts in modern biology including
cellular biology, plant biology, human biology, genetics, evolution, behavior and ecology.
Corequisites: BSC1005

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<td>BSC 1010</td>
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<td>BSC 1020C</td>
<td>Human Systems</td>
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<td>Enviro Bio-SW Fla Environment</td>
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<td>BSC 1085C</td>
<td>Hum Anat &amp; Physio w/Lab I</td>
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The environment of southwest Florida is used as an example to investigate environmental concepts within their ecological, cultural, economic, and historical contexts. Multiple sources of information including scientific data and artistic expression are utilized to evaluate ecological principles and environmental ethics, attitudes, and beliefs. This course is inquiry based and fully integrated with both laboratory and field experiences which emphasize active learning strategies.

Fee Required

BSC 1085C Hum Anat & Physio w/Lab I 4 credits
Primarily intended for health science majors. Primarily intended for health science majors.

Fee Required

BSC 1086C Hum Anat & Physio w/Lab II 4 credits
This course provides a discussion and problem solving format of contemporary topics in medicine with reviews of the literature.

BSC 2024C Human Species 3 credits
The evolution of mankind and the development of earlier cultures. Topics may include primates and research methods and techniques used by physical anthropologists to reconstruct past cultures.

BSC 2026 Biology of Human Sexuality 3 credits
Examination of the anatomy and physiology of reproduction, sexual response, gender identity, sexual orientation, love and attraction as well as scientific method by which sexuality is studied.

BSC 2300C Biological Systems I 3 credits
Investigates biology from a systems perspective. Topics will include general system characteristics, unique aspects of biological systems, system complexity, evolution, comparative system architecture levels of abstraction, biological control systems, redundancy, and artificial system synthesis. Chemical fundamentals, cell structure and function, elements of molecular biology, physiology and anatomy, taxonomy, complex system organization, and emergent properties of biological systems will also be considered.

BSC 2301C Biological Systems II 3 credits
This is the second semester of a two-semester course which will consider biology from a systems perspective. Topics will include general system characteristics, unique aspects of biological systems, system complexity, evolution, comparative system architecture levels of abstraction, biological control systems, redundancy, and artificial system synthesis. Chemical fundamentals, cell structure and function, elements of molecular biology, physiology and anatomy, taxonomy, complex system organization, and emergent properties of biological systems will also be considered. Case studies and system simulation will be utilized extensively. Artificial life, genetic programming, and computational metaphors based on biology will also be discussed. A range of projects will be required.
Prerequisites: BSC 2300C for level UG with min. grade of C

BSC 2930L Seminar in Medicine II  1 credits
This course is a continuation of BSC 1930L and provides a discussion and problem-solving format of contemporary topics in medicine with reviews of the literature and volunteer participation in the community as a part of service learning.
Prerequisites: BSC 1930L for level UG with min. grade of C

BSC 3303 Biogeography  3 credits
Biogeography is the study of the distribution of life and the physical, temporal, and biotic factors that influence distribution patterns. It links biodiversity to ecology, plate tectonics, evolution, climate, and diversity and changes in ecosystems.
Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L) ) and (BSC 1011C OR (BSC 1011 and BSC 1011L) ) and PCB 3043C

BSC 3367C Tropical Island Biology  3 credits
This course is an intense immersion experience designed to provide an overview of the biology and ecology of tropical islands, using San Salvador Island, Bahamas as a model. Instructor permission required.
Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L) ) and (BSC 1011C OR (BSC 1011 and BSC 1011L) ) and PCB 3043C Fee Required

BSC 3402 Scientific Process in Biology  2 credits
Students are introduced to the philosophy and methodology of the scientific practice in classroom discussion and laboratory and field experiences. Students, through self- practice and collaborative review, learn: philosophical and practical differences between physical and historical science; hypothesis generation and testing; experimental design; construction of a research proposal; composition of a scientific paper; oral presentation; and critical review. This course will be taught integrated with Communications Skills in the Science Classroom.

BSC 3403C Environmental Quant Techniques  3 credits
Implementation of laboratory and field techniques for environmental monitoring and analysis. Demonstration of competency with appropriate instrumentation, data management strategies and statistical procedures.

BSC 3930L Seminar in Medicine III  1 credits
This course is a continuation of BSC 2930L and provides a discussion and problem-solving format of contemporary topics in medicine with review of the literature and volunteer opportunity for service learning. (Continued acceptance in the BS Biology Accelerated 3+4 concentration, instructor permission.)
Prerequisites: BSC 2930L

BSC 4052 Conservation Biology  3 credits
The scientific basis of biological conservation. The course focuses on a description of biological diversity, threats to biodiversity and current practices in maintaining biodiversity.
Prerequisites: (BSC 1010C (may be taken concurrently) OR (BSC 1010 (may be taken concurrently) and BSC 1010L (may be taken concurrently))) and (BSC 1011C (may be taken concurrently) OR (BSC 1011 (may be taken concurrently) and BSC 1011L (may be taken concurrently))) and PCB 3673

BSC 4422C Methods in Biotechnology  3 credits
Techniques and applications of biotechnology will be studied with a strong emphasis on laboratory investigation. Recombinant DNA technology will be the focus of study with applications in plant and animal systems. The impacts of biotechnology on society will be examined, such as the human genome project and agricultural biotechnology.
Prerequisites: BCH 3023C for level UG with min. grade of C and PCB 3063C for level UG with min. grade of C

BSC 4900 Dir Ind Study/Research in Bio  2 to 4 credits
Individual study by students under the direction of a faculty mentor. The topic will be selected based on mutual agreement between the student and the faculty mentor.

BSC 4905 Dir. Ind.Study/Res. Biotech.  1 to 3 credits
Individual study/research under the direction of a faculty mentor. The topic of study needs to be focused in a Biotechnology area. Permission of the instructor required.

BSC 4910 Senior Project Research in Bio  2 credits
Research projects, (or certain aspects of research) are carried out by one or more students under the supervision of a faculty mentor. The project is designed to hone skills in applying research principles and obtaining practice in data collection, analysis. Senior Standing is required.
Prerequisites: PCB 3063C for level UG with min. grade of C and (PCB 3023C for level UG with min. grade of C OR ZOO 3713C for level UG with min. grade of C)

BSC 4911 Sr Project Presentation in Bio  2 credits
A continuation of the senior project, students will be expected to prepare and present a summary of their research.
Prerequisites: BSC 4910 for level UG with min. grade of C

BSC 4912 Senior Seminar in Biology  3 credits
Students conduct research in scientific teaching methodologies under the supervision of a faculty mentor. The seminar will culminate in the presentation of inquiry-based materials which can be used in the secondary biology classroom.

BSC 4930 Special Topics in Biology  2 to 4 credits
Courses will be developed based on topics of current or special interest to students or faculty. Fee Required

BSC 4933 Current Topics in Biology  1 credits
Special sessions exploring the literature in Biological Sciences. Students will receive Satisfactory "S" or Unsatisfactory "U" grades for this course.
Prerequisites: ISC 3120 for level UG with min. grade of C OR ISC 3120C for level UG with min. grade of C OR ISC 3120C

BSC 4940 Internship in Biology  2 to 4 credits
An internship provides the student with an opportunity to work on a project in the field or laboratory setting. This work is usually completed off-campus and the student will work with a qualified supervisor at the site as well as a faculty mentor.

BSC 4941 Internship in Biotechnology  1 to 3 credits
An internship working on a project in Biotechnology in an external laboratory or industrial setting. The student will work with an external qualified supervisor and with a faculty mentor. Permission of the program director required.
Prerequisites: (ISC 3120C for level UG with min. grade of C OR ISC 3120 for level UG with min. grade of C) and BSC 4422C for level UG with min. grade of C
BSC 4942C Senior Res. Biotech. 2 credits
Research project in Biotechnology under the supervision of a faculty mentor. Students will apply experimental design, data collection and analysis. Major standing is required. Permission of the program director is required.
Prerequisites: (ISC 3120C for level UG with min. grade of C OR ISC 3120 for level UG with min. grade of C) and BSC 4422C for level UG with min. grade of C

BSC 4943 Sr. Proj. Pres. Biotech. 1 credit
Presentation of the results of the project carried out in the Senior Research in Biotechnology course.
Prerequisites: BSC 4942C for level UG with min. grade of C

BSC 4944L Senior Capstone 3 credits
This senior capstone course provides an undergraduate experience in mentored research and presentation or internship specifically for each BS-Biology student as a culminating experience to the degree program.
Prerequisites: BSC 3063C for level UG with min. grade of C and PCB 3023C for level UG with min. grade of C

BUL 3130 Legal & Ethical Enviro of Bus 3 credits
Introduction to the contemporary legal and ethical environment of business. Topics may include the legal system, ethics, constitutional law, criminal and civil law, intellectual property, environmental law, contracts, and agency and employment law. (Junior standing required)

BUL 3320 Law & Business I 3 credits
The nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law. (Junior standing required)

BUL 4939 Special Topics in Business Law 1 to 3 credits
Topics of special or current interest such as the legal environment of forensic accounting, cyberlaw, legal aspects of marketing, real estate law, intellectual property, and emerging legal issues.
Prerequisites: BUL 3130 OR BUL 3320

BUL 5830 Business Law I 3 credits
A study of those principals of law that directly and regularly impact the conduct of business activities. Topics and sales provisions of the Uniform Commercial Code (UCC), covered include an overview of the legal system, contract law, securities regulation, and professional liability. Consumer protection laws, employment law, environmental

BUL 5831 Business Law II 3 credits
Negotiable instruments, bankruptcy, bailments, real of various business entities. Topics covered include a survey of the laws governing the formation and operation An in-depth study of the Uniform Commercial Code (UCC) and property, trusts and estates, agency, partnerships, corporations, limited liability entities, and professional ethics.
Prerequisites: BUL 5830

BUL 6935 Special Topics in Business Law 1 to 3 credits
A comprehensive survey of selected contemporary legal issues and topics that pertain to business. Individual and group research projects are emphasized.
Prerequisites: BUL 3320 OR BUL 5830

CAP 3611 Computation & Neural Systems 3 credits
Reviews general physiology from a systems perspective, comparative neurophysiology and evolutionary biology, perception systems, computational aspects of information processing within the central nervous system, clinical neuropsychology, and higher level cognitive functions. Covers techniques for pattern recognition, discrimination, estimation, classification, and learning in synthetic systems, as well as artificial neural network models, synthetic sensory systems, artificial life, and the implementation of computational neurosystems using VLSI technology.
Prerequisites: MAC 2311 and COP 2001

CAP 4730 Computer Graphics 3 credits
Foundation for work in computer graphics includes mathematical preliminaries, coordinate systems, transformations, perspective, graphical primitives, curve and surface modeling, representation of solids, hidden surfaces, shadows, ray tracing, the sampling process, aliasing, shading, illumination, texture generation, rendering, vision, color, computer displays, and virtual reality systems. Commercial graphic software systems are explored.
Prerequisites: COP 3003 for level UG with min. grade of C

CAP 4830 Simulation & Modeling 3 credits
Covers continuous and discrete event system simulation, with emphasis on general systems thinking, mathematical and computational methods in simulation, and the application of modeling techniques to selected problems in the sciences and other disciplines. Current commercial simulation environments are explored. Covers continuous and discrete even system simulation, with emphasis on general system thinking, mathematical, and computational methods in simulation, and the application of modeling techniques to selected problems in the sciences and other disciplines. Current commercial simulation environments are explored.
Prerequisites: COP 3003 for level UG with min. grade of C

CCE 3101C Civil Engineering Materials 3 credits
Prerequisites: EGN 3331C for level UG with min. grade of C

CCE 4031C Project Planning & Regulations 3 credits
Introduction to techniques for planning activities, operations, finance, budget, workforce, quality, safety, and other issues related to civil and environmental engineering planning. This includes the process of locating, discovering, and studying local, state, and federal regulations/codes. Topic examples include the societal context of engineering, regulatory enforcement agencies, engineering ethics, standards and liability, as well as components of critical thinking, communications, and lifelong learning.
Prerequisites: ENV 3006C for level UG with min. grade of C

CCJ 1020 Intro to Criminal Justice 3 credits
Introduction to the historical and philosophical background of agencies of the criminal justice system. An examination of the relationships between the police, courts, and correctional institutions.

CCJ 2930 Special Topics 3 credits
Current and emerging issues in the fields of criminal justice and criminology.
CCJ 3024  CJ Systems & Processes  3 credits
Components of the criminal justice system, including police, courts, corrections, the juvenile justice system, and the relationship of the criminal justice system to broad political, economic, and social issues.

CCJ 3117  Theories of Criminal Behavior  3 credits
Complex factors related to criminal behavior. Focus on understanding criminal and delinquent behavior from a multi-disciplinary perspective (biological, psychological, social), with emphasis on past and present theories.

CCJ 3603  Forensic Psychology  3 credits
Pragmatic review of the psychological, physiological, and sociological theories and practices which seek to evaluate and analyze deviant human behavior and environments that precipitate criminal conduct.

CCJ 3653  Drugs, Alcohol & Crime  3 credits
The history, pharmacology, health consequences, and crime-related aspects of mind-altering drugs with emphasis on the effects on criminal behavior, the legal response to the problem, and the treatment and prevention of abuse.

CCJ 3666  Victimology  3 credits
Victims and the process, etiology, and consequences of victimization. Special emphasis is placed on the types of victim's treatment within the criminal justice system, victims, theories of victimization, and the Examination of the role of victims in crime, their decisions to report crimes and help prosecute offenders, victim assistance, and victim compensation.

CCJ 3670  Introduction to Criminalistics  3 credits
An introduction to the identification, collection, preservation, and presentation of physical evidence from crime scenes. Fee Required

CCJ 3700  Meth Criminal Justice Research  3 credits
This course is a general introduction to research methods used in criminology and criminal justice. The course emphasizes the application of theory and research, sampling, measurement, data collection, research designs, and ethics of research. Specific examples from the fields of criminology and criminal justice.

CCJ 3701  Criminal Justice Data Analysis  3 credits
An introduction to quantitative and qualitative data analysis techniques currently in use among criminologists. Connects research design and methodology with statistical applications. Students will use statistical software to create databases, analyze data, and interpret statistical analysis. Prerequisites: CCJ 3700

CCJ 4035  Media and Crime  3 credits
Explores the criminal justice system, criminals, and crime as portrayed in the media, its impact on society and the criminal justice system.

CCJ 4054  Ethics in the Crim Justice Sys  3 credits
Identification, analysis, and response to diverse ethical issues, unethical practices, and unprofessional conduct encountered in the criminal justice system.

CCJ 4450  Ldrship & Mgmt in CJ Agencies  3 credits
Application of management and leadership theories to the administration of law enforcement and correctional agencies.

CCJ 4454  Issues in CJ Administration  3 credits
Contemporary issues relevant to the administration of justice in the United States; including topical issues in law enforcement, judiciary, and corrections.

CCJ 4601  Human Behavior  3 credits
Origins of human and deviant behavior from a multidisciplinary approach (biological, psychological, sociological, criminological). Addresses major theories and research including case studies that illustrate deviant behavior, such as drug abuse, suicide, mental illness, and sexual deviance.

CCJ 4630  Comparative Justice  3 credits
International perspectives in criminal justice policy and procedures. Analysis of criminal justice systems in other countries and cultures. Topics may include policing, the judiciary, and corrections.

CCJ 4662  Minorities and Crime  3 credits
Racial, ethnic, and class identities are examined in terms of their impact on individual experiences of the law, crime, justice, victimization, stigma, and punishment/rehabilitation. Sociological and criminological theory and research on the issues with special attention to the role of racism in theories of crime and in American law.

CCJ 4663  Female Crime  3 credits
Historical and current theory and research on female crime, including societal influences on female crime, the experience of women as crime victims and criminal offenders, and the role of women as criminal justice practitioners.

CCJ 4674  Advanced Forensic Psychology  3 credits
Advanced course in Forensics which blends the 3 prerequisite courses. Clinical interpretation of behavior and laboratory science to interpret crime scenes and suggest offender psychological profiles. Prerequisite courses or consent of instructor. Prerequisites: CCJ 3603

CCJ 4681  Domestic Violence  3 credits
Theoretical issues, both past and present, regarding domestic violence. Attention is given to contributing factors, legal aspect, and the impact of domestic violence on the victim and society.

CCJ 4910  Independent Research  1 to 3 credits
Students work closely with a faculty member in the development and implementation of research projects in the area of criminal justice. Instructor permission required.

CCJ 4933  Spec Topics in Criminology/CJ  3 credits
In-depth analysis of current and emerging issues in the fields of criminal justice and criminology.

CCJ 4934  Senior Sem (Criminal Justice)  3 credits
Integrative experience through which students comprehensively analyze and assess significant theories, policies, and practices related to criminal justice.

CCJ 4940  Internship  1 to 6 credits
Placement with one or more of the agencies comprising the criminal justice system. A minimum of 3 credits is required. Students may elect to take 1-3 additional hours as an elective.
CCJ 4957 CJ Study Tour Abroad 3 credits
Intensive study tour abroad, including preparatory work and research, focusing on cultural, historical, and social influences on criminal justice, and the differences and similarities of the different systems.

CCJ 5476 Mgmt. & Admin. of Justice 3 credits
An examination of all aspects of organizational theories, models and typologies, organizational variables and measuring effectiveness, supervision and communication systems, motivation, satisfaction, and morale of employees, organization of criminal justice systems, law enforcement, police and sheriff's departments, court organization and administration, jail and prison organizations, community corrections organizations, and juvenile justice organizations and their administration.

CCJ 5705 Research Method in CJ 3 credits
General coverage of the process of conducting criminal justice research. Research, design, sampling, data collection, and presentation of data in summary format are covered in-depth. Special focus is on evaluation in criminal justice.

CCJ 6061 Criminal Justice Theory 3 credits
A comprehensive overview of the major theories of crime and delinquency that have made historical and contemporary attempts to explain the causes of criminal behavior. Students will be able to apply these models to contemporary criminal justice policy and processing.

CCJ 6197 Interviewing & Investigation 3 credits
Prepares students to conduct compliance investigations using interpersonal communication and mechanisms for counteracting violations. Introduces tactics and strategies regarding monitoring business operations and internal control mechanisms regarding fraudulent conduct.

CCJ 6406 CJ Mgmt Plcy: Law Enforce Crts 3 credits
Advanced overview and analysis of policy, theory and research pertinent to the management of police agencies and court administration and decision making. Contemporary issues will be explored as well as historical development.

CCJ 6407 Seminar in Law Enforcement 3 credits
An analysis of contemporary issues in law enforcement as they are translated into agency policy, programs, services, and relationships with public and private agencies, institutions and the community.

CCJ 6455 Crim Just Mgt Plcy: J J & Cor 3 credits
Advanced overview and analysis of policy, theory and research pertinent to the management of police agencies and court administration and decision making. Contemporary issues will be explored as well as historical development.

CCJ 6485 Criminal Justice Policy 3 credits
An advanced seminar designed for students interested in evaluating and formulating policies on criminal justice.

CCJ 6501 Juvenile Justice Policy 3 credits
An analysis of historical and contemporary policies used to control adolescent delinquent and criminal behavior.

CCJ 6605 Dynamics of Delinquent & Crim 3 credits
Analysis of social constructs, determinants of social pathologies, crime and delinquent behaviors.

CCJ 6606 Social Constructs of Crime 3 credits
Classical and contemporary sociological theory that explains the etiology of criminal behavior including the correlates and causes of crime including poverty, urban blight; inequity in health, housing, and education; racial and ethnic discrimination; and the proliferation of drugs and gangs.

CCJ 6657 Ethics Criminal Justice Mgmt 3 credits
An examination of the ethical dilemmas and increasing concern regarding the accountability of those in law enforcement, the courts, and corrections, and the ethical decision making process of those in management which has impact on employees, the public at large, and public policy.

CCJ 6707 Adv. Quantitative Research 3 credits
In-depth treatment of the application and interpretation of quantitative research methodology and statistical tools appropriate for criminal justice related research. Specific content areas include research design, data collection, data characteristics, data analysis, preparation of research proposals, and scholarly presentation of research findings.

CCJ 6709 Advanced Qualitative Research 3 credits
In-depth treatment of the design of qualitative research methodology and procedures for qualitative data analysis appropriate for criminal justice related research. Specific content areas include qualitative research design; types of qualitative data; collecting, coding, and interpreting qualitative data. Specific emphasis on case study methods and reporting qualitative research findings.

CCJ 6711 Research in Violent Behavior 3 credits
Analysis, integration, and synthesis of classical psychological theory and contemporary research in violent behavior.

CCJ 6741 Data Analysis in CJ 3 credits
The use of statistical methods and computer applications utilized for research and program analysis in criminal justice. Application of statistical analysis to criminal justice data for purposes of policy analysis and theory testing.
Prerequisites: CCJ 5705

CCJ 6770 Ind. Research-Criminalistics 3 to 6 credits
Candidates work directly with supervising faculty to conduct independent research specific to their degree concentration.
Prerequisites: CCJ 6670 OR CCJ 6709

CCJ 6910 Directed Research Projects 1 to 6 credits
Student will participate in an independent directed course of study in a specialized area of interest, as determined with the approval of the faculty member. Variable credits, from 1 to a maximum of 6 may be available. Requires faculty approval prior to registration.

CCJ 6935 Special Topics in CJ Systems 3 credits
In-depth analysis of current and emerging issues relating to Criminal Forensic Studies.

CCJ 6930 Spec Topics in CFS 3 credits
In-depth exploration, analysis and assessment of contemporary
topics of special concern to the admission of criminal/juvenile justice systems.

CCJ 6936  Justice Policy Reform  3 credits
Focus on the analysis and formulation of policies that emanate from the national, state and local administrations as they pertain to the broad field of criminal justice.

CCJ 6940  Practicum - Criminalistics  3 to 6 credits
The Criminal Forensic Practicum is a field experience in Criminalistics.

CCJ 6941  Practicum-Frnsic Bhvr Analyst  3 to 6 credits
The Criminal Forensic Practicum is a field experience in Forensic Psychology.

CCJ 6971  Thesis in Criminal Justice  1 to 3 credits
This course requires that the student design and present a thesis of his or her own conception which involves the completion of field research which should include knowledge gained from statistical analysis and research methods. This course will be completed under the direction of faculty.

CCJ 6974  Project in Criminal Justice  1 to 3 credits
This course requires that the student design and present an applied research project that will demonstrate his/her competency of some aspects of the criminal justice field. This course will be completed under the direction of faculty.

CDA 3104  Comp Org'n & Assem Lang Prog  3 credits
Covers the basic concepts of computer organization using a computer platform or a simulator and the corresponding assembly language. Topics include memory models, register and CPU structures, basic assembly instructions, procedures, stack frames, and interrupt handling. Prerequisites: COP 2006 for level UG with min. grade of C and CDA 3200 for level UG with min. grade of C

CDA 3200  Digital Systems  3 credits
Covers data paths, controllers, memory systems, and register transfer level design, as well as finite state machine design, classical logic design, and storage element design. Hardware and software tools for digital system analysis and synthesis are explored. Prerequisites: COP 1500 for level UG with min. grade of C and PHY 2048C for level UG with min. grade of C

CDA 4150  Computer Architecture  3 credits
Covers the form, function, and cost-performance tradeoffs associated with a range of computer systems implementing sequential, parallel, and distributed system models. RISC and CISC systems, as well as memory and I/O models are explored. Topics include instruction set design, processor microarchitecture, pipelining, cache and virtual memory organization, protection and sharing, I/O, interrupts, and peripherals. Prerequisites: PHY 2049C for level UG with min. grade of C and CDA 3104 for level UG with min. grade of C

CDA 4170  Data Acquis. & Control Systems  3 credits
Covers the architecture and implementation of data acquisition and control systems include analog and digital measurement techniques, sources of error, transducers and actuators, system modeling, instrumentation system architecture, computer controlled instruments and data acquisition systems, and system design techniques. Open and closed loop control, system analysis and design, system stability, and analog and digital control system implementation techniques are explored. Prerequisites: COP 2001 for level UG with min. grade of C

CEG 3011C  Soil Mechanics  3 credits
Physical properties and classification of soils; flow of water through soil, distribution of stress within soil and consolidation; design consideration for compaction, seepage, and settlement analysis; laboratory. Prerequisites: CWR 3201C for level UG with min. grade of C and EGN 3331C for level UG with min. grade of C

CEG 4012C  Geotechnical Engineering  3 credits
Earth pressure and settlement analysis, shear strength and compressibility, bearing capacity, slope stability. Introduction to foundations utilizing practical geotechnical design. Prerequisites: CEG 3011C for level UG with min. grade of C

CEN 3031  Software Engineering  3 credits
The software engineering process stages are studied and applied to the development of a significant computer application using object-oriented design. These stages include requirements, design, prototyping, implementation, documentation, testing, code reviews, maintenance, and enhancements. Tools and strategies to use at the various stages are explored, including those used in the management of large amounts of code. Prerequisites: COP 2001 for level UG with min. grade of C

CEN 3213  Embedded Systems Programming  3 credits
Programming of embedded computer systems, that is computing devices that are parts of a larger installation, from watches and cell phones, to medical devices, cars, and space vehicles. Software design principles, specific implementation constructs and operating system kernels will be taught, supported by the use of software development tools. Prerequisites: COP 2006 OR ISM 3230

CEN 4935  Senior Software Engr Project  3 credits
Students will gain an understanding of the systems design process, including analysis, design, implementation, quality assurance, and project planning. Teams will design design and develop a prototype system that satisfies the requirements of a "real" organization. Students must have senior standing. Prerequisites: COP 2532 for level UG with min. grade of C and CEN 3031 for level UG with min. grade of C

CES 3100C  Mech of Engr Structures  3 credits
This course addresses the analysis and design of basic structural forms such as beams, trusses, and frames, which are found in bridges and buildings. Classical deflection techniques such as direct integration, virtual work and moment-area; and indeterminate analysis techniques such as the force, slope, deflection and movement distribution methods are used to determine forces and deflections in elastic structures. Matrix analysis techniques are introduced, including the direct stiffness method for truss analysis. Structural analysis computer programs are introduced and directly applied in the solution of graded analysis and design problems. Approximate analysis techniques are used to check the general accuracy of computer-based results. Prerequisites: EGN 3331C for level UG with min. grade of C

CES 4605C  Steel Design  3 credits
This course teaches the engineering thought process through the design of steel structures. The course synthesizes the fundamentals of statics, mechanics of materials, and structural analysis and
Mandarin. An intensive study of basic skills: pronunciation, network infrastructure, experience with major system components, and familiarity with This includes conceptual understanding of computer operation, mission of education in schools, libraries, and other institutions. The role of computer and networking hardware to support the

CGS 6210 Microcomp Hardware Sys for Ed 3 credits
The role of computer and networking hardware to support the mission of education in schools, libraries, and other institutions. This includes conceptual understanding of computer operation, experience with major system components, and familiarity with network infrastructure.

CHI 1120 Elementary Chinese I 3 credits
Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition. Corequisites: CHI1120L

CHI 1120L Elementary Chinese I Lab 1 credits
A laboratory designed to offer additional practice using various instructional technologies and media.
Prerequisites: CHI 1120 (may be taken concurrently) OR CHI 1100 (may be taken concurrently)
Corequisites: CHI1120

CHI 1121 Elementary Chinese II 3 credits
Mandarin. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
Prerequisites: CHI 1120
Corequisites: CHI1121L

CHI 1121L Elementary Chinese II Lab 1 credits
A laboratory designed to offer additional practice using various instructional technologies and media.
Corequisites: CHI1121

CHM 1045 General Chemistry I 3 credits
Intended for science majors. Explores the fundamental laws of chemistry including: states of matter, atomic and molecular structure, the periodic table, stoichiometry, chemical bonding, enthalpy, acid-base reactions, and the gas laws.
Prerequisites: MAC 1105 for level UG with min. grade of C OR MAC 1147 for level UG with min. grade of C OR MAC 2311 for level UG with min. grade of C OR MAC 2157 for level UG with min. grade of C OR ACU5 for min. SCORE of 066
Corequisites: CHM1045L

CHM 1045C General Chem w/Lab I 4 credits
Intended for science majors. Explores the fundamental laws of chemistry including: states of matter, atomic and molecular structure, the periodic table, stoichiometry, theories of chemical bonding, acid-base reactions and the gas laws. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.
Prerequisites: MAC 1105 for level UG with min. grade of C OR MAC 1147 for level UG with min. grade of C OR MAC 2311 for level UG with min. grade of C OR MAC 2157 for level UG with min. grade of C OR ACU5 for min. SCORE of 066

CHM 1045L General Chemistry I Lab 1 credits
Intended for science majors. Laboratory experiments related to principles discussed in the lecture class of general chemistry I. Experiments include measurement and accuracy in the laboratory, determination of density, indirect gravimetric determination of a metal after an oxidation-reduction reaction, determination of the formula weight of an unknown acid, identification of an unknown gas by measuring its' formula weight, enthalpy measurements, conservation of mass, solubility and colligative properties.
Prerequisites: MAC 1105 for level UG with min. grade of C OR MAC 1147 for level UG with min. grade of C OR MAC 2311 for level UG with min. grade of C OR MAC 2157 for level UG with min. grade of C OR ACU5 for min. SCORE of 066
Corequisites: CHM1045
Fee Required

CHM 1046 General Chemistry II 3 credits
Intended for science majors. Examines solutions redox reactions, kinetics and equilibria, thermodynamics, electrochemistry, nuclear chemistry and descriptive chemistry.
Prerequisites: (CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C) )
Corequisites: CHM1046L
CHM 1046C General Chem w/Lab II 4 credits
Intended for science majors. Examines solutions, redox reactions, kinetics and equilibria, thermodynamics, electrochemistry, nuclear chemistry and descriptive chemistry. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.
Prerequisites: (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C) OR CHM 1045C for level UG with min. grade of C

CHM 1046L General Chemistry II Lab 1 credits
Intended for science majors. Laboratory experiments related to principles discussed in the lecture class of general chemistry II. Experiments include measurement of reaction kinetics, determination of activation energy, measurement of equilibrium constants, titration of a polyprotic acid, Ksp measurements, enthalpy measurements, and electrochemistry experiments.
Prerequisites: (CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C))
Corequisites: CHM1046
Fee Required

CHM 1084C Environmental Chemistry 4 credits
INTENDED for SCIENCE MAJORS. - chemistry in the context of applications to the The study of the basic concepts of organic and inorganic environmental issues of water quality, atmospheric pollution, sustainable agricultural practices, and environmental risks to human health. THE CURRICULUM IS INQUIRY BASED and FULLY INTEGRATED with A LABORATORY THAT EMPHASIZES ACTIVE LEARNING STRATEGIES.
Prerequisites: CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C)

CHM 2210 Organic Chemistry I 3 credits
Emphasizes chemical reactivity in synthetic and biochemical processes. Functional group chemistry is learned by stressing the relationship between structure and reactivity. Reactions are categorized by mechanisms rather than by functional group. Includes spectroscopy, synthesis, nomenclature and mechanisms.
Prerequisites: (CHM 1046L for level UG with min. grade of C and CHM 1046 for level UG with min. grade of C) OR CHM 1046C for level UG with min. grade of C
Corequisites: CHM2210L

CHM 2210C Organic Chemistry w/Lab I 4 credits
Emphasizes chemical reactivity and utility in synthetic and biochemical processes. Functional group chemistry is learned by stressing the relationship between structure and reactivity (why and how certain reactions proceed and others do not). Reaction types are organized by common mechanisms, rather than by functional group. Includes spectroscopy, synthesis, nomenclature and mechanism.
Prerequisites: (CHM 1046C for level UG with min. grade of C OR (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C))
Fee Required

CHM 2210L Organic Chemistry I Laboratory 1 credits
Companion laboratory to Organic Chemistry I. The experiments develop expertise using organic chemistry techniques and familiarity with equipment and glassware commonly used in organic chemistry. Some of the experiments are illustrate concepts discussed in the lecture class, such as substitution and elimination reactions.
Prerequisites: (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) OR CHM 1046C for level UG with min. grade of C
Corequisites: CHM2210

CHM 2211 Organic Chemistry II 3 credits
Continues the study of organic compounds described for organic chemistry I. Reactions, mechanisms, nomenclature and spectroscopy are discussed for benzene, substituted benzene compounds and carbonyls. Oxidation-reduction reactions are studied in greater detail. The chemistry of biologically important compounds, amino acids, and nucleic acids is discussed. Polymers and biopolymers are introduced.
Prerequisites: (CHM 2210 for level UG with min. grade of C and CHM 2210L for level UG with min. grade of C) OR CHM 2210C for level UG with min. grade of C
Corequisites: CHM2211L

CHM 2211C Organic Chem w/Lab II 4 credits
Continues the study of organic compounds as described for 2210C. The latter part of the course emphasizes structural features and specific reactions of organic compounds related to important naturally occurring and manufactured materials: including synthetic polymers and biopolymers.
Prerequisites: (CHM 2210 for level UG with min. grade of C and CHM 2210L for level UG with min. grade of C) OR CHM 2210C for level UG with min. grade of C
Fee Required

CHM 2211L Organic Chemistry II Laborator 1 credits
Companion laboratory to Organic Chemistry II. The experiments continue to develop expertise with organic chemistry techniques and familiarity with equipment and glassware commonly used in organic chemistry. Some of the experiments are illustrate concepts discussed in the lecture class such as aromatic substitution reactions with carbonyl compounds.
Prerequisites: (CHM 2210 for level UG with min. grade of C and CHM 2210L for level UG with min. grade of C) OR CHM 2210C for level UG with min. grade of C
Corequisites: CHM2211

CHM 3005C Phys Chem for Life Sciences 4 credits
A one-semester course in physical chemistry, with emphasis on biological applications. Topics covered include gases, thermodynamics, equilibria, electrochemistry, kinetics, quantum theory and spectroscopy.
Prerequisites: (CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C)) and MAC 2311 for level UG with min. grade of C

CHM 3120C Analytical Chemistry 4 credits
Principles of quantitative analysis. Topics include equilibria, titrations, precipitation, complex formation, gravimetric analysis, separation processes, photometry, statistical treatment of data and sampling methodology. Laboratory is integrated with lecture topics and introduces students to analytical techniques and data analysis. Prerequisites: CHM 1046C minimum grade C Fee required.
Prerequisites: (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) OR CHM 1046C for level UG with min. grade of C
CHM 3410  Physical Chemistry I  3 credits
The first part of a two-semester calculus-based course in physical chemistry. Topics covered include states of matter, thermodynamics, solutions, and kinetics. Prerequisites: (CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C) ) and MAC 2313 for level UG with min. grade of C (may be taken concurrently) and PHY 2049C for level UG with min. grade of C

CHM 3410L  Physical Chemistry Laboratory  2 credits
Introduction to laboratory techniques used to measure properties of matter and behavior of chemical and physical processes and may include the following topics: Behavior of solutions, properties of gases, kinetics, spectroscopy, and surface chemistry. Prerequisites: CHM 3410 for level UG with min. grade of C Corequisites: CHM3411

CHM 3411  Physical Chemistry II  3 credits
The second part of a two-semester calculus-based course in physical chemistry. Topics include electrochemistry, surface chemistry, quantum mechanics, and spectroscopy. Prerequisites: CHM 3410 for level UG with min. grade of C Corequisites: CHM3410L

CHM 4139C  Instrumental Analysis  4 credits
Instrumental Analysis introduces students to laboratory instrumentation, commonly used for analysis of chemical samples. Principles of the techniques, operation, and instrument limitations will be discussed and laboratory experiments will be performed using the instrumentation. Prerequisites: CHM 2211C for level UG with min. grade of C and CHM 3120C for level UG with min. grade of C

CHM 4140  Senior Project Chemistry  2 credits
Research project in Chemistry under the supervision of a faculty mentor. Students will apply experimental design, data collection and analysis. Senior standing is required. Permission of the program director is required. Prerequisites: (ISC 3120C for level UG with min. grade of C OR ISC 3120 for level UG with min. grade of C) and (CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C) ) and CHM 3120C for level UG with min. grade of C Fee Required

CHM 4141  Senior Proj Presentation Chem  2 credits
Students will be required to prepare and present a summary of their research project. The presentation may be oral, written, or multimedia etc. Prerequisites: CHM 4140 for level UG with min. grade of C

CHM 4610  Inorganic Chemistry  3 credits
Inorganic chemistry is an introduction to molecular orbital theory, symmetry groups, energetics, transition metal complexes, coordination chemistry, reaction pathways and mechanisms of inorganics, and synthesis of inorganic compounds and organometallics. Prerequisites: CHM 3411 for level UG with min. grade of C Corequisites: CHM4610L

CHM 4610L  Inorganic Chemistry Laboratory  2 credits
A one-semester laboratory class with emphasis on synthesis of inorganic compounds, organometallics and spectroscopy and other methods of analysis used for inorganics.
Departmental permission required.  
Prerequisites:  CHS 3501C and CHS 3505C and CHS 3533C and CHS 4531C and CHS 4511C and CHS 4534C

CJC 1000  Introduction to Corrections  3 credits
Introduction to the historical, theoretical and objective understanding of crime, the offender and the correctional process in society. Topics include custodial procedures and theory, correctional treatment, and basic social systems in relation to crime problems.

CJC 3410  Methods of Offender Treatment  3 credits
Theories and techniques which may be employed within the boundaries of probation, parole, or prison. It explores their use in altering the attitudes, values, and behaviors of persons adjudicated guilty by the criminal justice system.

CJC 4010  American Corrections  3 credits
Comprehensive examination of the U.S. correctional system, including theories of punishment and rehabilitation, the historical antecedents of modern corrections, the operation and administration of correctional facilities, prison life, and contemporary debates concerning the role of corrections in society.

CJC 4015  Issues in Corrections  3 credits
A critical analysis of contemporary issues that are plaguing the correctional system. The class will examine both, the punitive and rehabilitative perspectives on corrections.

CJC 4166  Alternatives to Incarceration  3 credits
Alternatives to imprisoning the offender, including probation, parole and diversion. Community-based intervention and treatment approaches and the impact of social, political, and economic influences.

CJC 6329  Correctional Org & Admin  3 credits
Advanced review and analysis of scientific research & policy issues associated with the major dilemmas confronting correctional management today. Topics may include gangs, control and security, human rights, privatization, budgets, overcrowding and alternatives.

CJE 1000  Intro to Law Enforcement  3 credits
Introductory survey of the historical and philosophical development of law enforcement. Overview of the purposes, functions, organization, and technical problems of the police.

CJE 3365  Crisis Intervention  3 credits
Provides law enforcement, public service personnel, and clinicians with a general understanding of crisis intervention strategies and the kinds of situations that may be encountered.

CJE 4014  Issues in Law Enforcement  3 credits
This course uses readings, discussion, lecture and research presentations to explore contemporary issues in law enforcement policy and practice. Topics vary (discuss with instructor) and this course may be repeated. Instructor permission may be required during some semesters.

CJE 4114  Law Enforcement  3 credits
Examination of the American law enforcement system at the federal, state, and local levels. Emphasis is on functions, responsibilities, and issues of local police agencies, as addressed in police research.

CJE 4240  Advanced Forensics  3 credits
Advanced course in Forensics which blends the 3 prerequisite courses. Clinical interpretation of behavior and laboratory science to interpret crime scenes and suggest offender psychological profiles. Prerequisite courses or consent of Instructor.
Prerequisites:  CCJ 4215 and CCJ 3600 and CCJ 3080

CJE 4444  Crime Prevention  3 credits
Theory, operation, evaluation of crime prevention strategies.

CJE 4612  Interview and Interrogation  3 credits
Interview and Interrogation is designed on the principle of kinesics and understanding various aspects of verbalizations. Students are exposed to the interview process in logical steps, each designed to understand deception and malingering, and mechanisms for counteracting.

CJE 4641  Advanced Criminalistics  3 credits
Advanced Forensics focuses on the death investigation which encompasses latent prints, taphonomy, blood pattern analysis, pathology, entomology, and human remains decomposition. Study also includes trauma associated with arson, blunt and sharp instruments, ballistics, poisoning, asphyxiation, and electrocution.
Prerequisites:  CCJ 3670

CJE 6168  Media & Community Relations CJ  3 credits
An in-depth study of the interaction between criminal justice agencies with the media and the community. Content will include relations with television, radio, and print, as well as public affairs officers and requirements of Freedom of Information and Florida's Sunshine laws.

CJE 6429  Forensic Financial Invest.  3 credits
Prepares students to apply methods of discovering irregularities in financial records. Focuses on fraud investigation, illegal schemes, records verification and effectiveness of compliance strategies. Experience/prior coursework in accounting strongly suggested.

CJE 6622  CSI and Laboratory Mgt  3 credits
Skills necessary to manage a Crime Scene Investigation Unit and a Forensic Laboratory including science personnel management, instrumentation calibration, logistics of managing laboratory consumables, identifying special skill needs, evaluating space requirements, insuring universal precautions are adhered to, and evidence management.

CJE 6629  Integrative Project  6 credits
This is the culmination of the MS in Criminal Forensic Studies. Each student, under the supervision of a Criminal Forensic Studies faculty member, will prepare research questions, conduct research, and author an original Master's Thesis. The student is required to orally defend the Thesis before a panel of three Criminal Forensic Studies Faculty.
Prerequisites:  CCJ 6940 (may be taken concurrently)

CJE 6645  Medicolegal Investigation I  3 credits
Principles and techniques of Death Investigation. Topics include interaction among law enforcement agencies at the federal, state, and local level; investigative tools & equipment; first responder activities & responsibilities; documenting & evaluating the scene. First of two courses to qualify students to sit for the certification examination as a Medicolegal Death Investigator.

CJE 6646  Medicolegal Investigation II  3 credits
Principles and techniques of Death Investigation. Topics include
CJL 4510 Courts & Legal Issues 3 credits
The American court system, with emphasis on jurisdiction, policies, and procedures of courts in the administration of criminal justice. Central principles of criminal law, including the substantive elements of defining conduct for specific crimes and the various culpatory conditions for criminal liability.

CJL 5021 Compliance Ethics & Control 3 credits
Covers legal/operational issues arising as entities conduct self-reviews, internal investigations and self-disclosure. Federal law and regulations as well as relevant Florida laws and regulations will be analyzed.

CJL 5085 Comparative Crim Just Systems 3 credits
Examination of various criminal justice systems in specific nations, cultures, or societies. Explores law enforcement, corrections, and the judiciary in comparative context; provides an overview of the historical bases, societal and cultural influences in the development of justice systems studied.

CJL 5087 Reg. of Bus. Conduct 3 credits
Explores core elements of business regulation. Topics include practical legal restrictions/penalties for non-compliance, ethical decision-making and avoidance of liability. Focuses upon corporations, partnerships, sole proprietorships and related entities.

CJL 5320 Legal Aspects of CJ Management 3 credits
An overview of relevant legal doctrines from state, federal, and international sources, applicable in criminal justice management. Particular attention will be paid to constitutional issues and modern developments in law.

CJL 6125 Corp & Environmental Crime 3 credits
Analysis of US corporations, EPA, and violations by these entities. Development and implementation of regulatory policies, and procedures of courts in the administration of criminal justice. Special emphasis on the creation and application of law.

CJL 6221 Rsch Legal Methods Pub Policy 3 credits
In-depth overview and analysis of legal methods in the American legal system, primarily the criminal justice system. Through instruction in legal research on the internet, the students will become familiar with various aspects of public policy throughout the world in the creation and application of law.

CJL 6621 Criminal Evidence 3 credits
In-depth analysis of Constitutional due process guarantees; particular rules of evidence. Participation in moot court as expert witness, juror, and attorney adversarial process.

CLP 3140 Basic Psychopathology 3 credits
Review of the major child, adolescent and adult psychological disorders. This course is not intended for Psychology majors. Prerequisites: PSY 2012 for level UG with min. grade of C

CLP 4143 Abnormal Psychology 3 credits
Descriptive Psychopathology, theoretical models, empirical evaluation and treatment of maladaptive behavior. Prerequisites: PSY 2012 for level UG with min. grade of C and (PSY 3044 for level UG with min. grade of C OR PSY 3017 for level UG with min. grade of C) and STA 2023 for level UG with min. grade of C
CMM 1100 Florida Native Languages I 3 credits
Florida Native Languages course teaches reading, writing, speaking, and understanding oral languages through field techniques from linguistics and anthropology and classic foreign language pedagogy. Topics include grammar, syntax, vocabulary, and orthography. Permission of instructor required.

Prerequisites: SPC 1600 OR SPC 2023

CMM 1101 Florida Native Languages II 3 credits
Florida Native Languages course teaches reading, writing, speaking, and understanding oral languages through field techniques from linguistics and anthropology and classic foreign language pedagogy. Topics include grammar, syntax, vocabulary, and orthography. Permission of instructor required.

Prerequisites: SPC 1600 OR SPC 2023

CMM 1100 Florida Native Languages I 3 credits
Florida Native Languages course teaches reading, writing, speaking, and understanding oral languages through field techniques from linguistics and anthropology and classic foreign language pedagogy. Topics include grammar, syntax, vocabulary, and orthography. Permission of instructor required.

Prerequisites: CMM 1100

CMM 3200 Florida Native Languages III 3 credits
Florida Native Languages course teaches reading, writing, speaking, and understanding oral languages through field techniques from linguistics and anthropology and classic foreign language pedagogy. Topics include grammar, syntax, vocabulary, and orthography. Permission of instructor required.

Prerequisites: CMM 1120 and CMM 1121

CMM 3201 Florida Native Languages IV 3 credits
Florida Native Languages course teaches reading, writing, speaking, and understanding oral languages through field techniques from linguistics and anthropology and classic foreign language pedagogy. Topics include grammar, syntax, vocabulary, and orthography. Permission of instructor required.

Prerequisites: CMM 1120 and CMM 1121 and CMM 3200

CMM 4314 Health Psychology 3 credits
Review of application of clinical psychology in behavioral medicine context. Emphasis on rehabilitation and prevention. Prerequisites: SPC 1600 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C OR SPC 2023 for level UG with min. grade of C

CMM 4414 Behavior Modification 3 credits
Introduction to behavior analysis and application of learning principles, behavioral assessment, single subject research designs, and interventions in treatment settings. Prerequisites: SPC 1600 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C OR SPC 3044 for level UG with min. grade of C

CMM 4433 Psych Tests & Measurements 3 credits
Consideration of the theoretical issues in psychometric test development. Review of instruments for intellectual, personality and neuropsychological assessment including development, applications, and potential abuses. Prerequisites: SPC 1600 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C OR SPC 3044 for level UG with min. grade of C

COM 3343 Rhetorical Criticism 3 credits
Studies the methods of modern rhetorical critics. Emphasizes research and writing skills for a critical evaluation of rhetorical artifacts.

COM 3344 Rhetoric of Social Movements 3 credits
Examines the rhetorical impact social movements have upon a culture, including their influence on identity formation.

COM 3407 Theories of Comedy 3 credits
Upper-level theory class exploring the rhetorical construction and societal uses of comedy. The course focuses on four theoretical approaches - cathartic, mechanistic, taboo, and superiority. Prerequisites: SPC 1600 OR SPC 2023

COM 3462 Communication and Conflict 3 credits
This course will explore communication theories, principles, and methods associated with conflict, conflict escalation, conflict management, and conflict resolution in contexts such as interpersonal, family, neighborhood and region, nation and global community as well as environmental conflict. Prerequisites: SPC 1600 for level UG with min. grade of C (may be taken concurrently) OR SPC 2023 for level UG with min. grade of C (may be taken concurrently)

COM 3510 Political Campaign Rhetoric 3 credits
Introduces students to rhetorical techniques, strategies, and constraints in political campaigns. Includes an examination of speechwriting, advertising, and organizational public relations techniques.

COM 3540 Persuasion and Propaganda 3 credits
An advanced introduction to rhetorical and behavioral theories, principles, and strategies that will be examined and applied to contemporary persuasive communications. Prerequisites: SPC 1600 OR SPC 2023

COM 4311 Research Methods 3 credits
Research methods most commonly used in the study of communication are examined. Both qualitative and quantitative methods are taught. Students are required to conduct a major communication research project. Prerequisites: SPC 3210
COP 4908 Independent Study 3 credits
Reading, problem solving, project development, simulation, laboratory investigation, field work, or a combination of these activities is done under the supervision of a faculty member. Course may be repeated with different content. (Instructor consent required)

COP 4931 Special Topics in Comp. Sci. 3 credits
A contemporary subject in the field of computer science is explored. (Instructor consent required)

COT 3400 Algorithms 3 credits
The design, implementation, analysis, and application of a range of computer algorithms are explored. Function order of growth and amortized analysis are used in analyzing algorithms. A review and extension of data structure topics including stacks, queues, trees, graphs, lists, sets, hash tables, and heaps are covered. Algorithm design strategies such as divide-and-conquer, the greedy method, and dynamic programming are studied.

Prerequisites: COP 3530 for level UG with min. grade of C

CPO 3002 Comparative Politics 3 credits
Political systems of a representative sample of developing and developed these societies to respond to the challenges of population countries. Particular attention is paid to the capacity of growth, environmental degradation, and the world economy.

CPO 3303 Latin American Politics 3 credits
An examination of the economic and cultural forces that have given rise to contemporary Latin America. Key topics include democracy, human rights, economic integration, narco-trafficking and environmental sustainability.

Prerequisites: ENC 1102 for level UG with min. grade of C

CPO 4057 Politics and Violence 3 credits
Examines contemporary perspectives on the problems posed by political violence and considers approaches for ameliorating these problems.

Prerequisites: ENC 1102

CPO 4076 Comparative Propaganda 3 credits
Comparative analysis of propaganda in Fascist, State Socialist, and Democratic political systems.

Prerequisites: ENC 1102 for level UG with min. grade of C

CPO 4204 Govt. & Pol. Affairs in Africa 3 credits
This course examines impact on imperialism on the African continent, the emergence of independent nation states, the various models of development pursued in Africa, and the political conflicts that have emerged both within and between Africa's nation states. Particular attention is paid to Africa's capacity to meet the challenges of population growth, environmental degradation, and participation within the world economy.

CPO 4930 Special Topics Comp Polities 3 credits
Examination of a selected topic within comparative politics. Topics may vary depending on instructor. Prerequisite: ENC 1102

Prerequisites: ENC 1102
CRW 2001 Intro to Creative Writing 3 credits
Practice in developing skills in composing and editing original creative work. At least 6,000 words of graded written work are required (Gordon Rule).
Prerequisites: ENC 1101 for level UG with min. grade of C

CRW 4120 Advanced Fiction Writing 3 credits
Development of an individual style in writing fiction; critiquing, editing, and revising original fiction and preparing fiction for publication.
Prerequisites: CRW 2001 for level UG with min. grade of C

CRW 4320 Advanced Poetry Writing 3 credits
Development of an individual style in writing poetry; critiquing, editing, and revising original poetry; and preparing poetry for publication.
Prerequisites: CRW 2001 for level UG with min. grade of C

CRW 6130 Fiction Writing Workshop 3 credits
Examination of the fictional genres with an emphasis on the development of individual styles, writing and revising fiction and preparing it for publication.

CRW 6331 Poetry Writing Workshop 3 credits
Examination of poetic forms with an emphasis on the development of individual styles, writing and revising poetry and preparing it for publication.

CRW 6907 Directed Individual Study 3 credits
Individual Study in Creative Writing by graduate students under direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

CRW 6910 Directed Research 3 credits
Supervised research as part of a significant creative project. Approval of the coordinator of graduate studies required.

CRW 6930 Spec Tops in Creative Writing 3 credits
Focused study of a specific topic or issue relating to creative writing. Course may be repeated once with a change in content.

CWR 3201C Engineering Fluid Mechanics 3 credits
Fundamentals of fluid mechanics; properties of fluids, hydrostatics; conservation of mass, energy in fluid flow; laminar and turbulent pipe flow; compressible flow; surface resistance; similitude and dimensional analysis; and flow measurements; laboratory.
Prerequisites: MAP 2302 for level UG with min. grade of C and EGM 3420C for level UG with min. grade of C

CWR 3202C Hydraulics 3 credits
Analysis and design of civil/environmental engineering hydraulic systems, including piping, pumps, open channel flow, weirs, and storm sewer design.
Prerequisites: CWR 3201C for level UG with min. grade of C

CWR 4101C Hydrology 3 credits
Surface water hydrology, including hydrologic cycles, watershed analyses, frequency analyses, floodplain and hydrologic modeling. Introduction to groundwater hydrology. Topics in water resources.
Prerequisites: STA 2037 for level UG with min. grade of C and CWR 3202C for level UG with min. grade of C

CWR 4540C Water Resource Design 3 credits
Application of fluid mechanics, hydraulics and hydrology in water, wastewater, systems design and watershed management. and stormwater and water quality management, including plant hydraulics, retention pond and reservoir design, management practices. Water supply, flood routing, Distribution and collection networks, treatment outlet and control structures, and stormwater best urban watersheds. Groundwater transport. Several design projects using local and state regulations.
Prerequisites: CWR 3202C for level UG with min. grade of C and STA 2037 for level UG with min. grade of C

DAA 2105 Contemporary Dance I 2 credits
This course is designed to introduce students to the concepts and the vocabulary of contemporary dance. Students will learn basic locomotor and non-locomotor movements, and will develop an understanding of the concepts of alignment, spatial awareness and movement dynamics.

DAA 2205 Ballet I 2 credits
This course is designed to develop an awareness of the concepts and vocabulary of ballet dance. Students will be introduced to elementary ballet technique with an emphasis on alignment, control, and development of the feet with proper awareness of style and musicality.

DAA 2300 Ballroom/Social Dancing 2 credits
Development of technical skills in social/ballroom dance. May be repeated once with permission of instructor.

DAA 3108 Contemporary Dance II 3 credits
This course further develops the skills and concepts introduced in Modern I. The emphasis will be on a greater level of technical proficiency and a heightened kinesthetic, spatial and musical awareness. Improvisation will be used to further develop creative expression.
Prerequisites: DAA 2105

DAA 3208 Ballet II 3 credits
This course further develops the skills and concepts introduced in Ballet I. The emphasis will be on a greater level of technical proficiency with more extensive work on turns and grand allegro.
Prerequisites: DAA 2205

DAA 3684 Dance Theatre Lab 2 credits
Experience in dance ensemble and performance work. May be repeated once with permission of instructor.

DEP 2004 Principles of Development 3 credits
Survey of the major themes and recent findings in the area of lifespan development. Emphasis will be on the major biological, psychological and social developments from conception to death.
Prerequisites: PSY 2012 for level UG with min. grade of C

DEP 4054 Developmental Psychology 3 credits
Survey of methods, empirical findings and theoretical interpretations in the study of human development across the lifespan.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

DEP 4104 Advanced Child Psychology 3 credits
This course is designed to teach students about the psychological development of infants, toddlers, and preschoolers. Classroom study of the social, cognitive, motoric, and personality of development of young children will be augmented by direct
observation and interaction with young children.

Prerequisites: PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C

DEP 4163 Cognitive Development 3 credits
The main aims of this course are to acquaint the student with approaches and methods for investigating the underlying mechanisms that result in cognitive development in the early years (0-3).
Prerequisites: PSY 3017 and DEP 4054

DEP 4404 Psych of Adulthood & Aging 3 credits
A life-span approach to human development across adulthood into late life. Cognitive aging, changes in social functioning, personality development, and adjustment in later life.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

ECD 9491 Practicum: Behavior Disorders 2 to 4 credits
Supervised field experiences in assessment, behavior management, and clinical teaching with children who have behavior disorders. Repeatable up to a total of five credit hours. First time taken for two credits, second time taken for three credits. (S/U only)

ECO 1000 Survey of Economics 3 credits
Introductory survey of basic economic principles applied to public policy issues. Not a substitute for ECO 2013 or ECO 2023, nor a prerequisite for any other ECO or ECP course.

ECO 2013 Princ of Macro Economics 3 credits
Fundamental relationships in the aggregate, or macroeconomy. Basic measures, uses and limitations of macroeconomic activity. Public policy goals and alternative policy proposals regarding inflation, economic growth, unemployment and scarcity.
Prerequisites: ECO 2023 for level UG with min. grade of C

ECO 2023 Princ of Micro Economics 3 credits
Individual components of an economic system. Special emphasis is placed on decision-making by individuals and by firms. Market structures of competition and monopoly; supply and demand; international trade and finance.
Prerequisites: MAC 1105 for level UG with min. grade of C OR ACU5 for min. SCORE of 066

ECO 3101 Intermediate Price Theory 3 credits
Behavior of individual economic units, primarily consumers and firms. Development of tools for analysis and explanation of various economic phenomena.
Prerequisites: ECO 2023

ECO 3203 Intermediate Macroeconomics 3 credits
An extension of the two principles of economics courses that evaluate the roles of the private and public sectors in the determination of national income, employment, and prices. Competing theories of the macroeconomy will be covered and at least one of the major macroeconomic models will be developed in depth. Money and monetary policy will be covered as will the interplay of domestic and international economies upon one another. Monetary and fiscal policies will be covered and critiqued.
Prerequisites: ECO 2023 for level UG with min. grade of C and ECO 2013 for level UG with min. grade of C

ECO 3410 Econometrics I 3 credits
Covers statistical methods as applied in economics and finance. Topics include estimation and hypothesis testing, ordinary least squares estimators and their properties, single and multiple regression models.
Prerequisites: ECO 2023 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C

ECO 3703 International Economics 3 credits
Gains from trade, balance of payments, exchange rate determination, balance of payments stability, and international commercial policy.
Prerequisites: ECO 2013 for level UG with min. grade of C and ECO 2023 for level UG with min. grade of C

ECO 4504 Economics of the Public Sector 3 credits
The study of the role of government in a market economy, including how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens.
Prerequisites: ECO 2013 and ECO 2023

ECO 4941 Internship in Economics 3 credits
Experiential learning course allowing for practical applications of the skills and knowledge acquired in a classroom setting. Departmental Approval Only.

ECO 5005 Foundations of Economics 3 credits
An accelerated survey of microeconomic and macroeconomic concepts. The microeconomics wealth effects of a market economy are covered. The allocation, supply and demand, market structures and the individuals and firms in a market economy. Resource component addresses economic decision-making by macroeconomic component deals with output, employment, the business cycle and policy decisions at the national background in economics. level. Open to graduate students without a previous

ECO 6905 Directed Independent Study 1 to 3 credits
Independent graduate level study and research under the direction of a faculty member. A prospectus and the product(s) of the completed research undertaken will become a permanent part of the student's file. Not automatically transferable. Permission of the instructor and/or the director of the program is required.

ECP 3006 Sports Economics 3 credits
The course examines the sports industry using microeconomic theory as a framework for analysis. Applications economics as they bear upon output markets (owners and communities), labor markets (players), pricing, sports leagues, antitrust, the theory of games, corruption and discrimination will be covered.
Prerequisites: ECO 2023 and ECO 2013

ECP 3009 Moral Foundations & Capitalism 3 credits
This course explores the philosophical underpinnings of capitalist forms of economic organization. It covers the historical foundations of these arguments with special emphasis on utilitarian and moral arguments. Cogent, philosophically-base arguments regarding capitalism and criticisms of those arguments will be covered.

ECP 3302 Economics of the Environment 3 credits
A study of the economics of natural resources, energy, their uses and their impact upon the environment; utilization of external cost and benefit analysis to study the relationship between natural resource availability alternative strategies and policies in solving the problems and growth; and an examination of of environment
making from a problem-solving orientation. Topics include an examination of theoretical of price management and decision making under various underlying business activity as it relates to the process and empirical demand and cost functions, the fundamentals market conditions and regulatory constraints, long and short-run planning, and domestic and international conditions influencing the firm's profitability and growth.

Prerequisites: ECO 6005

ECP 6930 Special Topics 1 to 3 credits
Topics of current interest in economics problems and policy. Topics will vary. The graduate courses presently offered. course may also be used to offer advanced versions of Not automatically transferable. Consent of the instructor and/or director of the program is required.

Prerequisites: ECO 6005
Fee Required

ECS 4013 Economic Development 3 credits
Problems and policies of modernization related to economic change and growth in developing countries. Empirical and theoretical case studies are used. Area study and the formulation of development projects and program are components of the course.

Prerequisites: ECO 2013 and ECO 2023

EDA 6061 Principles of Ed Leadership 3 credits
This is a survey course that introduces students to of organization, control, and support of the educational Educational Leadership as a profession. Consideration system. Typically, this is a student's first course in the program in Educational Leadership. Open to all graduate students.

EDA 6106 Admin Analysis & Change 3 credits
Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and will apply them to selected situations.

EDA 6192 Organizational Development 3 credits
Addresses leadership theory, change, and planning systems. Course focuses on historical and current best practices in leadership and change theory.

EDA 6195 Policy Development 3 credits
Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies.

EDA 6232 School Law 3 credits
Basic essentials of School Law. A review of court decisions affecting American education with emphasis on Florida state statutes.

EDA 6242 School Finance 3 credits
Financial support of education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting.

EDA 6262 Planning Educ Facilities 3 credits
Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools.

EDA 6503 The Principalship 3 credits
Organization and administration of the school. Emphasis on the competencies necessary for leadership and management by the principal as the administrator and instructional leader.
EDA 6910 Directed Research 1 to 9 credits
Supervised research.

EDA 6931 Case Studies Educational Ldshp 3 credits
Helps prescriptive administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. Develops skill in decision making.

EDA 6945 Internship in Educ Leadership 1 to 8 credits
Field experiences in school systems for identifying and analyzing educational problems and their solutions. Open only to students admitted to the Program in Educational Leadership who have successfully completed at least 30 semester hours of their coursework. Permission of faculty in Educational Leadership required.

EDA 6971 Thesis: Master's 1 to 19 credits
Supervised thesis.

EDA 7066 Organizational Leadership 3 credits
Advanced graduate level course in organizational leadership focusing on the major leadership theories and concepts as applied to organizations; focus on concepts related to leadership, culture/climate, communications, changes, and ethics.

EDA 7193 Instructional Leadership 3 credits
Examination of the research literature concerning effective teaching and instructional improvement strategies, including use of technology, appropriate for PreK-12, postsecondary, and other educational settings. Students apply models of instructional leadership, including formative and summative evaluation.

EDA 7197 Current Issues Educ & Ldshp 3 credits
Addresses major, global, issues, and reform efforts in education. Emphasis is on issues that impact student achievement and other measures of accountability; particular emphasis is on the impact of technology.

EDA 7235 Seminar in School Law 3 credits
Advanced graduate level course providing in-depth study of PK-12 American school law; focuses on selected school issues through detailed examinations of selected cases, statutes, and actions. Prerequisites: EDA 6232 for level GR with min. grade of B

EDA 7241 Economics of Education 3 credits
Study of various models of financing education used throughout the US and other countries; in-depth study of lawsuits related to funding schools; various policy issues related to school funding, including school choice; use of technology in developing budgets; economic forecast models for technology replacement and other capital expenses.

EDA 7281 Education Policy Analysis 3 credits
Advanced graduate level course providing in-depth of analytical techniques and strategies to inform policymaking. Primary treatment is given to quantitative techniques and strategies. Students will be able to judge the merits of and develop education policy analysis briefs.

EDA 7930 Special Topics in Ed Lead 3 credits
Advanced study of current topics and issues related to educational leadership, across a variety of organizational settings. Students locate, analyze and discuss current research.

EDA 7940 Internship in Leadership 3 credits
Students participate in experiences that bridge the gap between theoretical studies and application. Internship sites and field supervisors are selected and approved with the student's advisory committee to meet the educational and career goals of the student.

EDE 3260 Emerg Lit Com & Cul 6 credits
Introduction to the acquisition and development of language, literacy theories, processes, instructional strategies and assessments. Survey of cultural indices and considerations for modifications and adaptation to meet the language and literacy needs of all children. Students should reserve at least three clock hours per week during the regular public school day for field experience.
Prerequisites: EDF 3201 for level UG with min. grade of C and EDFG 3201 for level UG with min. grade of C

EDE 4301 Teaching Methods in Elem School 3 credits
Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4304 Integrated Math & Science 3 credits
Techniques and materials for integrating mathematics and science instruction in schools with a highlight on geometry, probability/statistics, environmental science, and life science.

EDE 4930 Spec Topics in Elem Educ 3 credits
The special topic will be discussed in depth based on current research and required observations in the field. The student will examine the applicability to classroom practice.

EDE 4936 Senior Seminar- Elem Ed 3 credits
Capstone experience in which trends and issues within the field of elementary education are examined from the perspective of the final internship. Taken concurrently with final internship. Corequisites: EDE4940

EDE 4940 Internship: Elementary Ed 9 credits
A ten-week internship, five days per week, to refine and demonstrate effective teaching practices. Students will assume the teacher role in selected schools or agencies. Corequisites: EDE4936

EDE 4941 Childhood Educ Internship Lev I 3 credits
Students spend six hours per week in a supervised in-school experience and attend weekly seminars.

EDE 4942 Integrated Field Exp; Elem. Ed 3 credits
Semester-long internship to observe and demonstrate effective teaching practices. Students will partially assume the teacher role in selected schools or agencies. Students will be in two integrated field experiences, three consecutive days Accomplished Practices and Florida per week, for a total of 12 weeks. Educator Performance Measurement System, in teaching skills, in making classroom decision, and in thinking reflectively about decisions. Prerequisites: EDEG 3201 for level UG with min. grade of C and EDFG 3201 for level UG with min. grade of C and EDFG 3201 for level UG with min. grade of C
Corequisites: TSL4340

EDE 6205 School Curriculum: Elem 3 credits
Organization, curriculum, and instruction of the elementary school with emphasis on the nature of the students served. Open to all education graduate students.
EDE 6206 Elementary C&I 3 credits
Analysis of curriculum theories, materials, and practices as they affect learning in the elementary school.

EDE 6225 Prob in Curric & Inst: Elem 3 credits
For teachers, supervisors and administrators. Curricular and instructional problems of the elementary school. Common problems of special interest to the participants. Normally, for certification requirements only.

EDE 6303 Eff Tchng Methods 3 credits
To provide meaningful experiences, based on Educator Accomplished Practices for the development of classroom management skills necessary for effective teaching in diverse and inclusive elementary education classrooms.

EDE 6305 Creative Teaching 3 credits
Creative processes and principles in the teaching of the art and content subjects to elementary school pupils.

EDE 6906 IndStud: Elem/EarlyChildEdu 1 to 6 credits
Independent study in which students must have a contract.

EDE 6932 Special Topics in Teaching 3 credits
Teachers in K-12 will refine and gain greater expertise in clinical teaching, peer support, and supervision of interns and beginning teachers and apply state standards for students and teachers.

EDE 6946L C&I Practicum: Elem 3 credits
A practical application for C&I theory in a supervised field experience to develop and practice effective curriculum planning and instructional practices. Field work will be conducted concurrently with Elementary C&I course.
Prerequisites: EDE 6206

EDF 2005 Introduction to Education 3 credits
Survey course to orient students to the profession of education. Focus on current issues in education and their relationship to the disciplines social, philosophical and historical foundations. Thirty hours of field experience in pre-K - 12 schools required as part of this course.

EDF 2085 Teaching Diverse Populations 3 credits
An introduction to the value of diversity in American society and the manifestations of diversity in the educational system. Focuses on providing prospective teachers with knowledge about students in American schools who are from different ethnic, racial, cultural, socioeconomic and/or linguistic backgrounds or who represent other categories of diversity. Classroom and/or community observations required.

EDF 3122 Learning & Developing Child 3 credits
Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 3201 Diversity of Human Experience 6 credits
The complexity and variety of opportunities in early explored. Each field, including childhood, elementary and special education are ESOL will be addressed within the context of human diversity. Students should reserve at least three clock hours per week during the regular public school day for field experience.

EDF 3251 Classroom Org & Management 3 credits
Development of instructional, organizational, and management knowledge and skills integrating components of classroom organization and management, school safety, professional ethics, and educational law necessary to create a positive learning environment.

EDF 3542 Philosophy of Education 3 credits
The basic cultural, social, historical, legal, financial, political, and governance, structures of American education and schooling; and, the nature of professionalism in democratic society.

EDF 3604 Sr Seminar: Social Fndns of Ed 3 credits
Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence and instruction. May be offered in Senior Seminar format in some programs.

EDF 4112 Child Growth and Development 3 credits
Understanding of child growth and development, including atypical development and knowledge of contemporary theories and theorists.

EDF 4424 Measurement Eval in Classroom 3 credits
This course is focused on providing teachers with the skills needed to evaluate K-12 student learning within the Florida accountability context. Teacher candidates learn to evaluate assessment materials provided in textbooks and district curricula to ensure that K-12 students have adequate opportunities to learn and demonstrate the Sunshine State Standards. Students learn to modify these materials, as needed, in order to evaluate the results of instruction by collecting, analyzing, and utilizing data collected through formal and informal means to improve student achievement.

EDF 4430 Measurement for Teachers 2 to 3 credits
Concepts and skills related to designing, administering, evaluating, interpreting, applying and communicating results of classroom tests to include both performance and objective assessments. Concepts and skills in administering, interpreting, applying, and communicating results of standardized assessments. Emphasis will be on the use of assessment tools to improve instruction and student achievement.

EDF 4470 Assessment & Action Research 3 credits
Concepts and skills related to designing, administering, evaluating, interpreting, applying and communicating results of classroom tests to include both performance and objective assessments. Concepts and skills in administering, interpreting, applying, and communicating results of standardized tests. Emphasis will be on the use of assessment tools to improve instruction and student achievement. Computer applications will be introduced.

EDF 5136 Teaching the Adolescent Learner 3 to 4 credits
Educational, intellectual, personality, physical, social, and environmental factors in adolescence and their importance for professionals who work with adolescents.

EDF 6125 Child Development 4 credits
Educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development.

EDF 6215 Learning Principles 3 credits
Focuses on theories of learning and their application to instruction.

EDF 6259 Classroom Mgt and Org 3 credits
Development of instructional, organizational, and management knowledge and skills integrating components of classroom
organization and school safety, professional ethics, and educational law necessary to create a positive learning environment.

EDF 6284 Instructional Design 3 credits
Hands-on experience with several systematic designs of instructional courseware. Topics include instructional strategies, comparison and implementation of instructed designs, and a simulated design environment.

EDF 6354 Theories Personality for Couns 4 credits
Survey and analysis of major personality theories with emphasis on psychosocial and cognitive development throughout a person's life span.

EDF 6401 Data and Analysis in Education 4 credits
Theory and application of statistical procedures to problems in education: descriptive statistics, probability sampling, inferential statistics, interpretation of results, and introduction to computer programming for statistical analysis.

EDF 6432 Foundation of Measurement 3 credits
Basic measurement concepts, role of education, construction of teacher-made tests and other classroom assessments, interpretation of standardized tests, and fundamental descriptive statistics for use in test interpretation.

EDF 6465 Reading Program Evaluation 1 credits
Culminating experience for MEd Reading program. An introduction to components and models of program design.

EDF 6469 Evaluation Tech Apps & Program 3 credits
Overview of evaluation in education settings: technology based applications and enhanced or supported programs. Students will critique design, development, and value of selected educational software applications in supporting teaching academic concepts and review multimedia or web-based instructional projects, developing skills to evaluate components of program design.

EDF 6481 Foundations of Educ Research 3 credits
Analysis of major types of educational research design, including experimental, correlational, ex post facto, and case studies.

EDF 6486 Inquiry Skills&Assess. Methods 3 credits
Introduction to methods of research to monitor and improve instruction and learning; includes a variety of methods of conducting research in classrooms and assessing instructional effectiveness.

EDF 6517 Historical Fdns of Amer. Ed 4 credits
History of the origins and development of American education, events, and movements that have shaped school policies and practices, and their relationship to contemporary developments.

EDF 6544 Philippic Found. of Amer. Ed 3 credits
Major philosophies of education relevant to an understanding of contemporary educational issues.

EDF 6605 Foundations of Sec Education 3 credits
Designed to introduce students to the social, historical and philosophical foundations of American education, particularly focusing on secondary schools.

EDF 6606 Socio-Eco Foundations 3 credits
Provides a systematic examination of the social, economic and political issues surrounding the organization and operation of schooling in America, past and present. The course presents a framework for understanding how schools reflect American society and how education plays a role in the social and economic narratives about our nation's future.

EDF 6705 Gender & the Educ Process 3 credits
Designed to enable public school personnel, teachers, counselors, administrators, and other professionals to identify those aspects of public education that perpetuates sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.

EDF 6812 Seminar in Comparative Edu 4 credits
Policies and practices in education in selected countries.

EDF 6939 Seminar in Action Research 3 credits
The systematic observation of one's own practice with the goal to understand, improve practice, and/or investigate the current state of education settings and practice.

EDF 7416 Quantitative Analysis 3 credits
Introductory statistics including non-parametric tests, bi-variate correlation statistics, chi-square, product-moment correlation, simple linear and t-test, and analysis of variance purposes of analyzing educational issues through and computer analysis and interpretation skills.
Prerequisites: EDF 6481 and EDF 6432

EDF 7475 Qualitative Resrh Desg & Anls 3 credits
Basic concepts and principles of qualitative research; the nature of qualitative research, developing research questions, types of qualitative research, sampling, and data analysis and interpretation.
Prerequisites: EDF 6481 and EDF 6432

EDF 7943 Cur Iss Ed Assess Dec Making 3 credits
Instruction in and linkages to issues related to measurement, assessment and evaluation concepts, which are integral to educational policy and decision-making.
Prerequisites: EDF 6481 and EDF 6432

EDG 3201 Professional Studies 6 credits
An exploration of the fundamental elements of professional studies in teacher education including an introduction to the field of curriculum and instruction. Emphasis is social, cultural, historical, political, economic, legal and philosophical foundations of American education, schooling, and the profession of teaching.

EDG 4320 Intro. to Creative Drama 3 credits
Introduction to the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theater games and role playing and story dramatization.

EDG 4343 Instructional Strategies 3 credits
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning, and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations.

EDG 4371 Creative & Affective Develpmnt 3 credits
Students gain expertise in knowledge of principles of music, visual
art, and movement and learn how to apply this knowledge of the
design of developmentally and culturally appropriate activities. A key focus is infusing the creative arts and movement into the curriculum.
Prerequisites: (EDG 3201 for level UG with min. grade of C and EDF 3201 for level UG with min. grade of C) OR EDG 4343 for level UG with min. grade of C

EDG 4620 Curriculum & Instruction 3 credits
An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

EDG 4905 Independent Study 1 to 4 credits
Specialized independent study determined by the student's needs and interests and supervision by a qualified faculty member. May be repeated.

EDG 4930 Special Topics in Education 1 to 4 credits
Topics of special or current interest. Students may repeat this course with different titles.

EDG 6250 Curriculum Design & Devel. 3 credits
Overview of curriculum development issues. Presents relationship between curriculum theories and instructional practices, interrelationship of various components of a curriculum design, and curriculum design as a basis for decision-making in constructing instructional programs. Demonstrates different applications of curriculum principles to the development of educational programs especially in technology rich environments as well as assessment of current plans and organization of the curriculum.

EDG 6285 School Curriculum Improvement 3 credits
Open only to teachers in service. Complete faculty participation required.

EDG 6326 Learning, Account & Assess 6 credits
Examines instructional leadership as it is related to curriculum development and continuous school improvement with a focus on organization of the curriculum, learning, accountability, and assessment issues.

EDG 6356 Inst Models and Strategies 3 credits
Students analyze didactic and constructivist models and strategies and demonstrate the application of those supported by the current theory and research.

EDG 6363 Capstone Seminar 1 to 3 credits
Students will design a scholarly project or write a proposal for research under the direction of the faculty advisor that integrates the principles theories, and concepts of the core courses of the C&I program and the student's concentration themes.

EDG 6391 Instructional Leadership 3 credits
Enables educational leaders to explore issues that are pertinent to curriculum planning, development, implementation, and evaluation, and to make informed, research-based decisions related to instructional design, teaching, and learning.

EDG 6627 Found. of Curriculum & Instr. 3 credits
Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels.

EDG 6631 Instruct Strat Diverse Learner 3 credits
Overview of characteristics of diverse learners and how gender, ethnicity, cultures, socio-economic status, language impact student perceptions and access to education and training opportunities. Course will identify factors and strategies essential to facilitate learning of diverse learners in different settings.

EDG 6705 Learn & Tch Except Pops, 6-12 3 credits
Course will cover the historical background of inclusion as well as best practices and accommodations for high and low incidence populations. Collaboration with special and general education personnel and parents will also be discussed.

EDG 6931 Selected Topics in Education 1 to 4 credits
Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

EDG 6935 Seminar in Curric Research 2 to 3 credits
Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to the satisfaction of research requirements.
Prerequisites: EDF 6481 for level UG with min. grade of C

EDG 6947 Internship 1 to 9 credits
Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate.

EDG 6971 Thesis: Masters 1 to 19 credits
Supervised Thesis Interdisciplinary Studies.

EDG 7046 Found Sustainability Educ Prac 1 credits
Seminar that introduces definitions, historical perspectives and issues in sustainability in education and focuses on religious, philosophical, and scientific underpinnings of sustainability. Involves field experience, discussions, and presentations as pedagogy.

EDG 7047 Sustainability: Global Issues 1 credits
Seminar focuses on global issues related to sustainability in education. Imbedded in the seminar sections of the Earth Charter on social and economic justice, democracy, and nonviolence.
Prerequisites: EDG 7046

EDG 7065 Hist Persp Crit Literacies 3 credits
Literacies, as defined at different points in history, including visual, print, non-print, numerical, technological, environmental, and cultural are examined to determine 21st century impact on curriculum of being literate.

EDG 7221 Curriculum Theory 3 credits
Advanced graduate level course providing an analysis of the theoretical and research base which supports the various dimensions of the curriculum field.

EDG 7286 Curriculum Design Evaluation 3 credits
Bridging theory into practice in curriculum design, development and evaluation; tools, processes, and issues involved in the planning, design, development, implementation, and evaluation of effective curricular initiatives across learning contexts, K-12, higher education, face-to-face, or virtual delivery.

EDG 7325 Multiple Pedagogies 3 credits
Investigates traditional, alternative, and creative models of teaching
that engender developing visionary society for cross-cultural communication. Pedagogy that foster intrinsic learning, cooperation/appreciation of differences; coaching techniques.

EDG 7347 Transf Lrng thru Narrative 3 credits
Through narrative inquiries students will encounter transformative learning theory with personal/professional insights into leadership and curriculum. Founded in adult study literature, content crosses diverse fields within responsive multicultural/global perspectives.

EDG 7362 Advanced Learning Theory 3 credits
Intensive exploration of prominent learning theories in the field of education; theoretical paradigms, philosophical epistemologies, and research related to how people learn; role of learning theory in making institutional, program, and instructional decisions.

EDG 7635 Curr Persp Exceptionalities 3 credits
Critical issues in the field of special education, nationally and internationally; a seminar format with an in-depth assignment that requires extensive school/agency based experiences.

EDG 7707 Diversity & Global Stud in Ed 3 credits
Emphasis on cultural diversity in education and comparative international education. Seminar format with an on-site experiential component. Conceptual, theoretical, and sociological foundations of education provided by examining theories and empirical research pertaining to diversity.

EDG 7908 Pedagog/Curr in Sustain in Ed 1 credits
Education leaders consider pedagogical and curricular decisions in educating for sustainability; models explored; principles developed in relation to Earth Charter issues. Includes research, discussion, presentations, and collaborative projects with practitioners of sustainability in education.
Prerequisites: EDG 7046

EDG 7930 Special Topics in Curr & Instr 3 credits
Advanced study of current topics and issues related to teaching, learning, and curriculum, across a variety of classroom settings. Students locate, analyze and discuss current research.

EDG 7940 Internship in Curr and Instr 3 credits
Students participate in experiences that bridge the gap between theoretical studies and application. Internship sites and field supervisors are selected and approved with the student's advisory committee to meet the educational and career goals of the student.

EDG 7974 Specialist Proposal Dev. 1 to 3 credits
In class students develop a proposal for their culminating specialist project in consultation with their major professor and EdS Committee.

EDG 7975 Specialist Culminating Project 1 to 3 credits
Work with major professor and EdS Committee to complete culminating project.
Prerequisites: EDG 7974

EDM 6235 School Curriculum:Middle 3 credits
Examines the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the students served. Open to all education graduate students.
Prerequisites: EDG 6627 for level GR with min. grade of B

EDM 6256 Prob in Curr &Instruc:Mid Schl 3 credits
For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems of special interest to the participants. Normally, for certification requirements only.

EDP 3004 Student Develop and Learning 3 credits
Introduction to the psychological principles applied to the education process and address them in relation to classroom instruction, classroom management, discipline, and motivation. Course examines developmental psychology of children and adolescents in relation to learning.

EDS 6050 Human Resources Development 3 credits
Focuses on critical elements of human resource development in educational settings. Particular emphasis is on staff development and on improving and evaluating instruction.

EDS 6131 Clinical Supervision 3 credits
Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance.

EDS 6239 Problems Personnel Development 3 credits
Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies.

EEC 3268 Play Development & Assessment 3 credits
Utilizing age appropriate environments for young children, effective play facilitation, and play as a tool in assessing strategies for children at risk.

EEC 4008 Lit. in Early Childhood Educ. 3 credits
Emphasis is placed on developing knowledge of literature for younger children (0-8 years) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

EEC 4203 Prog for Young Children 3 credits
Historical and sociological foundations of early childhood education, establishing professional beliefs regarding teaching young children, and developing an appropriate learning environment. Field experiences required.

EEC 4211 Integ. Sci & Math/Yng Children 3 credits
Beginning sequential science and mathematical concepts for the appropriate stages of cognitive development of young children.
Prerequisites: EDG 3201 for level UG with min. grade of C

EEC 4212 Int. Curr.: S.S., Human.,& Art 3 credits
Develops understanding of appropriate curriculum experiences in social science, humanities, and art for kindergarten and primary grades with an emphasis on how learning experiences are integrated throughout the curriculum, how these curriculum areas can be integrative stimulus, and how sociological influences such as culture, ethnicity, language and gender impact understandings, values and learning.

EEC 4300 Cognitive Exp for Yng Children 3 credits
Theoretical aspects of cognitive development for children ages zero to eight with emphasis on planning developmentally and culturally appropriate teaching-learning experiences and determining appropriate curriculum content in language arts, science, mathematics, and social studies with an emphasis on integrated experiences.
Prerequisites: (EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C) OR EDG 4343 for level UG with min. grade of C

EEC 4303 Creat/AffectExp for YoungChild 3 credits
The development of creative and affective experiences in young children ages 0 - 8, emphasizing infusing creativity into the integrated curriculum. In conjunction with the accompanying field experience, students plan and implement developmentally and culturally appropriate child-centered learning experiences in play, music, drama, arts, and movement based on the needs of individual children.

EEC 4307 Cognitive Exp for Yng Children 3 credits
Theoretical aspects of cognitive development for children ages zero to eight with emphasis on planning developmentally and culturally appropriate teaching-learning experiences and determining appropriate curriculum content in language arts, science, mathematics, and social studies with an emphasis on integrated experiences.
Prerequisites: EDG 3201 for level UG with min. grade of C

EEC 4404C Relations Across Fam-Sch-Comm 3 credits
The knowledge base and skills necessary to form partnerships with families and the community to enhance the care and education of young children, to design and environment, develop policies and adopt strategies that will assist children in developing prosocial behaviors, and problem solving and negotiating with children who exhibit challenging behaviors.

EEC 4408 Child Family & Teach Relations 3 credits
Focuses on developing understanding of traditional and nontraditional families including structural and lifestyle variations and understanding of parenting in diverse cultures including high-risk families.
Prerequisites: EDF 4112 for level UG with min. grade of C and EEC 4300 for level UG with min. grade of C and EEC 4303 for level UG with min. grade of C

EEC 4510 Infants and Toddlers 3 credits
This course is designed to teach students the knowledge base and skills necessary to provide a high-quality infant and/or toddler program. The course will integrate knowledge of individualizing care and education for all children including children with special needs and children from diverse cultural groups.

EEC 4706 Language & Emerging Literacy 3 credits
Focuses on developing an understanding of language development, processes of emerging literacy and how teachers support development through appropriate integrated curriculum experiences.

EEC 4936 Sr. Seminar: Early Childhood 3 credits
Capstone experience taken concurrently with the final internship. Trends and issues within the field of early childhood education are examined from the perspective of the final internship experience. Corequisites: EEC4940

EEC 4940 Internship: Early Childhood 1 to 9 credits
Full day, full semester internship, with field placement in a kindergarten, pre-kindergarten, or primary grade where teacher candidates demonstrate the ability to apply knowledge, skills and dispositions in authentic situations.
Corequisites: EEC4936

EEC 4942 Integrated Field Exp. - EC 3 credits
Semester-long internship, the equivalent of 2 full days per week, to observe and demonstrate effective teaching practices by assuming the teacher roles in selected schools or agencies. Students will be in two integrated field experiences, two consecutive days per week, for a total of 12 weeks. Field experiences will be carried out in selected schools and community agencies.

EEC 4943 Field Experience III 3 credits
Field placement in kindergarten or primary grade where teacher candidates have opportunity to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to curriculum planning and emphasis on self evaluation of knowledge, skills and dispositions essential for teaching.

EEC 6261 Adv Prog in Early Child Educ 3 credits
Innovative curriculum designs in Early Childhood Education, with emphasis give to related research.

EEC 6405 Home-Schl-Comm Interac/ECE 3 credits
Review of the current research on how children across the lifespan and interact reciprocally with their families and with the various levels of schooling in their learning process, collectively and in small groups, we will be critically analyzing policies and programs that address ways to mobilize schools and families to work together in educational partnerships.

EEC 6406 Social Growth in Childhood 3 credits
Principle factors that influence the social development of young children with particular emphasis upon those cultural influences that affect both child development and the educational programs for the young child.

EEC 6705 Intellec Growth in Childhood 3 credits
Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.

EEC 6926 Wkshop in Early Childhood Educ 3 credits
Individual problems and innovations related to methods and materials of instruction in early childhood.

EED 6211 EduStrat for Stud w/BehavDisor 3 credits
Advanced methods and materials for planning, implementing, and evaluating educational interventions with students with behavior disorders.

EED 6215 AdvTheories&Prac in BehavDisor 3 credits
An understanding of the theoretical bases for explaining, preventing and treating emotional and behavioral disorders, and in implementing myriad techniques to effectively meet the needs of children and youth with behavioral and emotional disorders. The course is designed for Master's level students who plan to teach students with emotional and behavioral disorders in school and clinical settings. The focus is on etiological theories and their associated interventions relative to emotional and behavioral disabilities observed in educational settings. This course will help students integrate theoretical concepts with specific culturally sensitive approaches for identifying, classifying and intervening with students with behavior disorders and their families.

EED 6246 Educating the Autistic Student 3 credits
Developing and managing appropriate and effective educational
programs and techniques for students who have autism.

EED 6943 Practicum in Behavior Disorders 1 to 8 credits  
Supervised graduate practicum experiences with children who have behavior disorders. It provides opportunities for students to demonstrate their skills in applying concepts, theories, and research when working with students with special needs.

EES 3204C Environ Chem for Engineers 3 credits  
The course will cover basic chemical principles from general, physical, equilibrium, organic, biochemistry, colloid, and nuclear chemistry, focusing on the aspects of chemistry that are particularly valuable for solving environmental problems, thermodynamics, fugacity, charge-transfer, and properties of mixing; chemistry of aliphatic and aromatic compounds; organic functional groups and toxic organic chemicals; laboratory safety. This course is inquiry based and fully integrated with a laboratory that emphasized active learning strategies. 
Prerequisites: PHY 2049C for level UG with min. grade of C and BSC 1010C for level UG with min. grade of C and (CHM 1046C for level UG with min. grade of C OR CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C)

EEX 2010 Intro to Special Education 3 credits  
Introduction to exceptionality with particular emphasis on educational aspects. This course is required by the State of Florida for certification in all areas of exceptional student education.

EEX 4012 Foundations of Special Ed 3 credits  
Survey of various exceptional student populations with a particular emphasis on the educational aspects of exceptionality. Foundations and evolution of the field of Special Education. The ethical implications of educational practice for this population will be explored.

EEX 4050 Theories & Prac in Spec Educ 3 credits  
An overview of the fields of learning disabilities, behavior disorders, mental retardation and physically impaired that focuses on the theories, issues, trends, philosophies, historical perspectives, analysis of viewpoints, definitions, and characteristics of a disability are highlighted. Types of evaluation methods for eligibility criteria, IEP development and current best teaching practices are also covered.

EEX 4070 Integ. Except. Students in Reg 2 to 3 credits  
Integrating exceptional students in the regular class.

EEX 4201 Young Children with Spec Needs 3 credits  
Comprehensive overview of the field of early childhood special education (ECSE), and in depth information on state of the art practices which facilitates both teacher and child competencies. Focus on "application," with an emphasis on "hands on" experience.

EEX 4221 Educ Assess ofExceptional Stud 3 credits  
Introduction to the complex policies, procedures, and legal mandates that guide the assessment of children for services in programs for exceptional children and to the techniques and methods commonly used in the assessment process. This course is linked to a practicum that requires students to apply concepts learned in the course. This course is required of all special education majors. Florida Department of Education standards and the Council for Exceptional Children standards both require this content.

EEX 4231 Assessing Prog Child w/Disab 3 credits  
Knowledge to plan assessments for the purposes of identification and diagnosis, program planning and program evaluation for infants and young children with and without disabilities.

EEX 4243 Edu of Excep Adoles & Adult 3 credits  
Planning and implementing multicultural educational programs for adolescent and secondary level exceptional students. Assessing curriculum models, materials, teaching strategies, and transition requirements for the full range students with disabilities, including gifted and talented. Of This course is required for all of the department's.

EEX 4254 Tching Students w/Mild-Mod Dis 3 credits  
Special instructional strategies, accommodations, and modifications needed for students with exceptionalities so they can succeed in general education settings, and achieve standard high school diplomas.

EEX 4474 Tchng Students Mod/Sev Disabil 3 credits  
Teaching students who are earning a specialized diploma II option. Particular emphasis will be given to school to career plans, community based instruction, inclusion, and functional curriculums.

EEX 4604 BehavMgmt SpecNeed/AtRisk Stud 3 credits  
Establishing and maintaining order in the classroom, requisite social skills, helping children learn how teaching children to solve problems, teaching children self-control and dealing with behavioral crises when they arise in the classroom.

EEX 4742 History & Narr Pers Exception 3 credits  
Designed to use literature as a way to interpret the lives of individuals with disabilities, their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.

EEX 4905 Independent Study 1 to 3 credits  
Independent Study.

EEX 4930 Spec Topics in Spec Ed 3 credits  
Topics of special or current interest. The special topic will be discussed in depth based on current research and required observations in the field. The student will examine the applicability to classroom practice. just prior to the final internship semester.

EEX 4936 Senior Seminar: Special Ed 3 credits  
Capstone course taken concurrently with the final internship. Trends and issues within the field of special education are examined from the perspective of the final internship experience and an action research project. Corequisites: EEX4940

EEX 4940 Internship: Special Ed 9 credits  
A ten-week internship, five days per week, to refine and demonstrate effective teaching practices. Students will assume the teacher role in selected schools or agencies. Corequisites: EEX4936

EEX 4942 Integ Field Exper in Spec Ed 3 credits  
A semester-long internship, the equivalent of two full days per week, to observe and demonstrate effective teaching practices. Students will partially assume the teacher role in selected schools or agencies.
EEX 5752 Work w/Fam: Pluralistic Persp  3 credits
A broad systemic view of family theory amenable to the panorama of ethnic and cultural diversity. Stresses the multi-faceted role of the special education teacher, an increased emphasis on today's pluralistic society, the need to keep abreast of the changing discipline of exceptional education, the importance of collaboration with other child-caring disciplines, and the ability to identify and intervene with families and children at risk.

EEX 6017 Typical & Atypical Development  4 credits
A comprehensive presentation of child development theory, developmental sequences and stages and developmental risk factors. Foundational knowledge for developmental assessment skill.

EEX 6025 Foundations of Special Educ   3 credits
Current state of the art trends as well as issues related to the education of exceptional students are addressed. In addition to the specific exceptional student populations, including the culturally diverse attention will be directed to the issues of definitions, identification and assessment practices.

EEX 6206 Cur Plan Intervention Yng Chld  4 credits
An overview of building developmentally appropriate interventions and instructional strategies built on assessment findings, family concerns and team consensus. Comprehensive address of strategies to deliver services in integrated, natural learning environments as part of typical family/child routines.

EEX 6207 MedicallyComplex YoungChildren  3 credits
Introduction to risk factors, developmental delays and syndromes including genetic, environmental and medical. Family perspectives and diversity issues are discussed.
Prerequisites: EEX 6017

EEX 6213 Assessment of Young Children  4 credits
Comprehensive overview of assessment models and tools utilized for young children with special needs. Emphasis on the role of the family in the assessment process and methods of identifying family concerns. Overview of linking assessment results to interventions and instructional strategies.

EEX 6222 AdvPsychoEd Assess-Excep Stud  3 credits
Primary goals are to review and critique a variety of assessment procedures that are commonly used in special education programs and to examine the assessment process and the attendant policies and legal issues in special education. Preferred courses in Measurement and Introductory Special Ed.

EEX 6245 TransProg-Adol&Young ExepStu  3 credits
Designed to provide teachers of individuals with disabilities with skills to enhance opportunities for successful transitions. Specific skill areas addressed include strategy, social skill and career/vocational instruction.

EEX 6248 Instr Approaches for Excp Pops  3 credits
Indepth study of instructional strategies that are effective when teaching students with behavior disorders, mental retardation (developmental disabilities) and learning disabilities. Content includes techniques for curriculum adaptation, IEP development, direct, database and metacognitive strategy instruction, and technology applications.

EEX 6511 Admin of Excep Student Prog  3 credits
Procedures that local, state, and national administrators may use to implement services for exceptional students.

EEX 6612 Mgmt &Motiv Excep &at-RiskStud  3 credits
A critical look at the conceptual and research bases of disciplinary approaches commonly seen in classrooms for exceptional students, with particular attention to those systems that support the inclusion and success of students with disabilities. Understanding and dealing with challenging student behaviors, reviewing theories commonly used, critiquing intervention research, and examining teacher beliefs that underlie teacher interventions.

EEX 6708 Teaching in Early Childhood  3 credits
A study of team models for service delivery, team development and team member roles. Emphasis on the family of the young children with special needs as critical team members and family systems theory. Closely looks at the Florida service delivery system for young children.

EEX 6732 Consult & Collab in Spec Ed  3 credits
Collaborative/consultative models for special education majors including theories and research pertaining to consultation, working with teams of other professionals, and collaborating with parents and professionals.

EEX 6775 Interperson Interact & Sk Dev  3 credits
An understanding of methods of providing instruction in interpersonal and intrapersonal skills including personal care, self-advocacy, self-determination, workplace skills, family life skills, social skills, and adaptive life skills.
Prerequisites: EEX 6025

EEX 6906 IndependentStudy:Special Educ  1 to 6 credits
Independent study in which students must have a contract with an instructor.

EEX 6939 AdvSem: Paradigms,Prac & Pol  3 credits
Critical examination of the field of special education and evaluation of controversies and ethical dilemmas confronting the field. Skills to systematically evaluate the conceptual, practical, and ethical challenges they encounter and critically assess the impact of changes on their professionals practices.

EEX 6943 Practicum-Excep Stu Educ  3 credits
Supervised field work in exceptional student education with children (including preschool handicapped) who have learning disabilities, mental handicaps, emotional and behavioral disabilities, physical disabilities, or multiple disabilities. Can repeat up to 6 credit hours.

EGI 5051 Nature in Needs of the Gifted  3 credits
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.

EGI 5307 Creative Prob Solving forChild  3 credits
Explores the concept of creativity, its factors, theories, measurement, and nurturance. A focus on formal and informal applications will include educational programs, curriculum and strategies.
EGI 6232  Adv Educ Strat for the Gifted  3 credits
Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring.

EGI 6415  Consult Couns&Guid-GiftedStud  3 credits
Primary emphasis will be on awareness, knowledge and understanding of the unique guidance and counseling needs of students who are gifted and talented of from special populations.

EGI 6936  Sem & Educ of Gifted:Spec Popu  3 credits
A critical survey of the research, issues, policy, ethics, and practices related to culturally diverse, economically disadvantaged, limited English proficient, twice exceptional, highly gifted, or very young.

EGM 3420C  Engineering Mechanics  4 credits
Engineering mechanics (statics and dynamics) examines the effect of forces acting on particles and rigid bodies. Vector mechanics is used extensively. Statics addresses the topics of equilibrium in two and three dimensions, to include distributed loads, trusses, frames, friction, and cables. Dynamics addresses kinematics, including translating and rotating reference frames and coriolis acceleration and two-dimensional kinetics methods of force-acceleration, work-energy, and impulse-momentum.
Prerequisites:  PHY 2048C for level UG with min. grade of C

EGN 1006L  Intro to the Engineering Prof.  1 credit
The course provides an overview of the important aspects of the engineering disciplines offered at FGCU, including professional components, career opportunities, the role of the engineering approach to problem-solving, and the engineering design process. The course is built around active learning concepts as well as team-based learning.
Prerequisites:  MAC 1105 OR MAC 1147 OR MAC 2157 OR MAC 2311 OR ACU5 for min. SCORE of 066

EGN 1041C  Problem Solving & Design Engrs  2 credits
Introduction to problem solving strategies and the design process in engineering. Also includes an introduction to computation tools for engineers.
Prerequisites:  MAC 2311 for level UG with min. grade of C and EGN 1006L for level UG with min. grade of C (may be taken concurrently)

EGN 2111C  Engineering Computer Graphics  2 credits
Spatial visualization, descriptive geometry and design communication methodology. Computer graphics techniques used to conceive, model, analyze, simulate, and evaluate design ideas. Emphasis on state-of-the-art Computer-Aided design and geometric modeling software tools.

EGN 3331C  Mechanics of Materials  3 credits
Analysis of deformable solids subjected to force systems. One, two, and three-dimensional stress and strain relationships for linear elastic solids. Statically determinate and indeterminate axial force, torsion, and bending members. Stress transformations, pressure vessels, and combined loading. Introductory aspects of column buckling.
Prerequisites:  EGM 3420C for level UG with min. grade of C

EGN 3373C  Circuits for Bioengineers  3 credits
Principles of circuit design, simulation, and analysis; DC and AC circuit theory; principles of electronic devices and amplifiers for bioengineering applications.
Prerequisites:  EGN 1006L for level UG with min. grade of C and PHY 2049C for level UG with min. grade of C

EGN 3374C  Signals Syst Bioengineers  3 credits
Introduction to analysis of signals arising from both living and non-living systems. Basic processing of signals with emphasis on analog models and processes. Linear systems and an introduction to closed-loop control. Includes Laplace and Fourier transforms and use of computers for signal and system analysis and control within bioengineering applications.
Prerequisites:  BME 3403C for level UG with min. grade of C and EGN 3373C for level UG with min. grade of C

EGN 3641C  Engineering Entrepreneurship  3 credits
Introduces students to engineering entrepreneurship through case studies and the process of defining an engineering service learning project.
Prerequisites:  EGN 3833C for level UG with min. grade of C

EGN 3833C  Engineering Service Learning  2 credits
Team-based community service activity that incorporates engineering and responds to a community need. Topics emphasize the societal context of engineering, the use of the design methods and engineering analysis, team skills, project management, communications, engineering standards and liability, and components of critical thinking and self discovery.
Prerequisites:  EGN 3331C for level UG with min. grade of C and EGN 1041C for level UG with min. grade of C

EGN 4410L  Engineering Senior Design I  1 credit
Engineering capstone design is a cornerstone in engineering education. During this first course in senior design, the students will develop a team, identify a client, and propose a project, as well as begin data gathering and analysis necessary for Engineering Senior Design II.
Prerequisites:  EGN 3641C for level UG with min. grade of C and (BME 4800C for level UG with min. grade of C and EGN 3374C for level UG with min. grade of C and BME 3261C for level UG with min. grade of C) OR (ENV 3006C for level UG with min. grade of C and CEG 3011C for level UG with min. grade of C and CES 3100C for level UG with min. grade of C) OR (ENV 3006C for level UG with min. grade of C and CEG 3011C for level UG with min. grade of C and EES 3204C for level UG with min. grade of C)

EGN 4411C  Engineering Senior Design II  3 credits
Engineering capstone design is a cornerstone in engineering education. During this second course in engineering senior design, the students will develop alternative solutions, prototype, test, and deliver products, systems, or processes to their client.
Prerequisites:  EGN 4410L for level UG with min. grade of C

EGN 4900  Directed Engineering Research  1 to 4 credits
Supervised research on an engineering topic. Content is selected by students in conjunction with the faculty advisor and is usually specific to the students' engineering discipline. Research is conducted by students directly under the supervised direction and with the consent of a faculty mentor. ~ Admission to the U.A. Whitaker School of Engineering and approval of the student's Department Chair are required. The course may be repeated with different content.
EME 4908 Engineering Independent Study 1 to 4 credits
Independent study for students under the direction of a faculty mentor. The topic will be determined between the student, the faculty mentor, and the department chair. Instructor permission required. This course may not cover engineering topics already covered in the curriculum.

EMG 4930 Special Topics in Engineering 1 to 4 credits
This course will be developed to allow the inclusion of contemporary engineering content that will be suitable for any of the engineering degree disciplines. The course will also contain interdisciplinary content which exposes recent developments in engineering science and design.

EME 5932C Special Topics Engineering 1 to 4 credits
Courses centering around topics of current interest or of special interest to students or faculty. Topics may vary according to interests and need of students. The course may be repeated with different content.
Prerequisites: EGN 4411C

ELD 4941 Pract. Specific Learn Disabiili 2 to 4 credits
Supervised field experiences in assessment, behavior management, and clinical teaching with children who have learning disabilities. Repeatable up to a total of five credit hours. First time taken for two credits, second time taken for three credits. (S/U only) A corequisite of EEX 4604 or 4846 based is required based on level of practicum.

ELD 6015 AdvTheo/Prac-Spec LearnDisab 3 credits
A review of the role of theory in the development of the field of learning disabilities. Students will be given the opportunity to study the major theories that have shaped the field and should acquire information about multicultural issues in relationship to historical perspectives, current trends and future directions.

ELD 6146 EduStrat:Stud w/Learning Disabl 3 credits
Advanced educational procedures and material development for the student with specific learning disabilities.

ELD 6943 Practicum-Learning Disabil. 3 credits
Supervised experiences with students who have learning disabilities. It provides opportunities for students to demonstrate their skills in applying concepts, theories, and research when working with students with special needs. Can be repeated twice for six credit hours.

EME 2040 Intro to Computers in Educ. 3 credits
Introduction to computers and technologies, and their function in the classroom to augment the teaching and learning processes.

EME 4402 Infusing Technology in Ed 2 credits
An introduction to the use of technology in the K-12 classroom.

EME 5053 Intro toEducational Technology 3 credits
Provides an overview of media and technology in education and issues of integration of technology. Course will survey theoretical issues and trends in educational technology and impact on selection, design, utilization, and evaluation of instructional media.

EME 6207 Web Design and Development 3 credits
Website development and editing, including graphics configuration, using Macromedia's Dreamweaver/Fireworks Suite.
Prerequisites: EME 5053 OR EME 5054

EME 6209 Graphics and Animation Design 3 credits
Advanced features of Macromedia's Dreamweaver and Fireworks and online animation for web pages.
Prerequisites: (EME 5054 OR EME 5053) and EME 6207

EME 6225 Integrating Tech: PreK-8 3 credits
Application of computing and related technology to teaching and learning. Discussion will focus on software, media, internet resources for PreK-8.

EME 6403 Intro to Networking 3 credits
Covers vendor neutral industry-standard certifications for basic networking skill for communication systems incorporated into classroom computers and school networks. Course is designed to include items covered in CompTIA Network+ Certification exam and CompTIA A+ operating system exam.

EME 6405 Integrating Tech: 6-12/Adult 3 credits
Application of computing and related technology to teaching and learning process. Some discussion will focus on telecommunications, image/sound processing, interactive media, artificial intelligence, and data acquisition.

EME 6408 Adv Tech Ap:Internet Res K-12 3 credits
An exploration of teaching resources located on the Internet.

EME 6413 Adv Tech Ap:Logo/Robotics K-12 3 credits
Child-ready programming language for understanding math, language arts, science, music concepts. Lego constructed robots programmed by Logo.

EME 6425 Technology for School Leaders 3 credits
Provides information and skills necessary for administrators and teachers to effectively use the computer and application software to manage information. Students use programs such as word processors, database managers, and spreadsheets to facilitate management tasks at the school and classroom level. In addition, general computer education topics are covered which provide for the computer literacy of school administrators.

EME 6930 Intro to Programming 3 credits
Development of concepts, strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as Logo, VisualBasic, Hyperscripting, Java, and Javascripting. (Computer literacy advised)

EME 6936 App. of Comp as Ed Tools 3 credits
Selected topics in the application of computing and related technology to the teaching and learning process. Separate sections will focus on topics such as telecommunications, image and sound processing, interactive media, artificial intelligence, data acquisition, and information systems. (Computer literacy advised)

EME 6938 Capstone Seminar: Ed Tech 1 to 3 credits
Candidates will design a scholarly project under the direction of the faculty advisor that integrates the principles, theories, and concepts of the core courses of the C & I program and the student's concentration. Students may register for up to 2 additional hours in subsequent semesters. Permission of instructor required.

EMR 4941 Supvsd. Pract.: Mental Ret. 2 to 4 credits
Supervised field experiences in assessment, behavior management, and clinical teaching with children who have learning disabilities. Repeatable up to a total of five credit hours. First time taken for
two credits, second time taken for three credits. (S/U only) A corerequisite of EEX 4604 or 4846 is required based on level of practicum.

EMR 6052 AdvTheories&Prac-Mental Retard 3 credits
An in-depth study of the complex social and biological aspects of mental retardation with a particular theoretical emphasis on the education of individuals with mental retardation, as well as the philosophical and ethical underpinnings of the field of mental retardation.

EMR 6255 EduStrat-Stud w/Mental Retard 3 credits
In-depth study of the specific curriculum and methodological problems in teaching students with mental retardation.

EMR 6943 Superv. Practic-Mental Retard 1 to 12 credits
Supervised experiences with students who are Mentally Retardation disabilities. It provides opportunities for students to demonstrate their skills in applying concepts, theories, and research when working with students with special needs.

ENC 1101 Composition I 3 credits
Instruction and practice in the skills of writing and reading. At least 6,000 words of graded written work are required (Gordon Rule).

ENC 1102 Composition II 3 credits
Instruction and practice in the skills of writing and reading. At least 6,000 words of graded written work are required. (Gordon Rule)
Prerequisites: ENC 1101 for level UG with min. grade of C

ENC 2160 Introduction to Nature Writing 3 credits
Analysis of the major techniques used in creative nonfiction, thematically based in nature. Students develop skills in reading, reviewing, and editing creative nonfiction prose that is steeped in an environmental awareness. At least 6,000 words of graded written work are required (Gordon Rule),
Prerequisites: ENC 1101 for level UG with min. grade of C

ENC 3250 Professional Writing 3 credits
Techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities. At least 6,000 words of graded written work are required (Gordon Rule).
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

ENC 3310 Expository Writing 3 credits
Techniques for writing effective prose, excluding fiction, in which student essays are extensively workshopped, edited, and discussed in the classroom and with the instructor. At least 6,000 words of graded written work are required (Gordon Rule).
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

ENC 4930 Special Topics in Exp. Writing 3 credits
Focused study of a specific type of expository writing. Course may be repeated once with a change in content.

ENG 3014 Intro to Lit & Cultural Stds 3 credits
Introduction to the English major, including learning goals and portfolio development. A review of the literary periods of English and United States literature, an introduction to literary terms and applied theory, and a review of research and writing in the field of English.

ENG 3240 Romantic Lit. & Culture 3 credits
Readings course on the literature of Great Britain as it reflected and influenced culture during the Romantic period. Readings include canonical as well as marginal and non-literary texts.

ENG 3251 Victor Lit. & Culture 3 credits
Readings course on the literature of Great Britain as it reflected and influenced culture during the Victorian period. Readings include canonical as well as marginal and non-literary texts.

ENG 4060 History of English Language 3 credits
A study of the evolution of language from Anglo-Saxon through Middle English to Modern English, including the development of the English lexicon, the change in pronunciation, syntactic and semantic systems, and the forms which influenced them.

ENG 4906 Individual Research 1 to 4 credits
Directed study in special projects. Permission of the chair of the Division of Humanities and Arts is required.

ENG 4930 Senior Seminar 3 credits
Seminar focusing on the assessment of student learning in the English program.
Prerequisites: ENG 3014 for level UG with min. grade of C

ENG 6058 Lit.,Language, and Society 3 credits
Examines the function of language in social groups with special focus on the relationships among the individual, social institutions, and literature. This is the introductory course for students enrolled in the M.A. program in English.

ENG 6966 Master's Comprehensive Exam 0 credits
Written examination assessing students' progress toward achieving the English Program Student Learning Outcomes. Approval of Coordinator of Graduate Studies required.

ENG 6971 Thesis 1 to 3 credits
Supervised writing of the master's thesis.

ENL 2012 British Literature/Culture I 3 credits
Survey of the literature of Great Britain as it reflected and influenced culture from Medieval times through the late eighteenth century. Readings include both canonical and marginal texts.

ENL 2022 British Literature/Culture II 3 credits
Survey of the literature of Great Britain as it reflected and influenced culture from the early romantic period through the
present day. Readings include both canonical marginal texts.

ENL 3210 Anglo Saxon & Medieval Lit 3 credits
Readings course on the literature of Great Britain as it reflected and influenced culture in medieval times. Readings include canonical as well as marginal and non-literary texts.

ENL 3220 Renaissance Lit/Culture 3 credits
An examination of the literature of Great Britain as it reflected and influenced culture during the Renaissance.

ENL 3230 Restoration & 18th Century Lit 3 credits
An examination of the literature of Great Britain as it reflected and influenced culture during the Restoration and eighteenth century.

ENL 3240 Romantic Lit & Culture 3 credits
Readings course on the literature of Great Britain as it reflected and influenced culture during the Romantic period. Readings include canonical as well as marginal and non-literary texts.

ENL 3251 Victorian Lit & Culture 3 credits
Readings course on the literature of Great Britain as it reflected and influenced culture during the Victorian period. Readings include canonical as well as marginal and non-literary texts.

ENL 3270 20th Cent British Lit &Culture 3 credits
Readings course on the literature and culture of the 20th century in Great Britain. Intense study of authors/works and their contexts.

ENL 3323 Shakespeare Survey 3 credits
Introduction to Shakespeare's language, poetry, and plays within the context of Elizabethan culture. Intended for majors who have limited experience with Shakespeare.

ENL 4112 18th Century British Novel 3 credits
This seminar is an in-depth study of the British novel as it developed from its origins to about 1780. The course focuses on the emergence of the early novel form, the cultural forces leading to the writing of novels, the culture as reflected in novels, and the influence of the novel on traditions of writing and thinking in England.
Prerequisites: ENG 3014

ENL 4122 British Novels of 19th Cent 3 credits
Seminar with in-depth study of the British novel from 1780 to 1900. The course focuses on the developing forms of the novel, the cultural forces at work within the novels, and the ways that the novels both reflected and influenced the culture at large.
Prerequisites: ENG 3014

ENL 4132 British Novels of 20th Cent 3 credits
Seminar with in-depth study of the novel from 1900 to present. The course focuses on the developing forms of the novel, the cultural forces at work within the novels, and the ways that the novels both reflected and influenced the cultural at large.
Prerequisites: ENG 3014

ENL 4218 Medieval British Romance 3 credits
Exploration of British romance from earliest times to the advent of the Renaissance, with an in-depth focus on the legends involving King Arthur and his knights of the Round Table and the complex British culture out in which these tales proliferated.
Prerequisites: ENG 3014

ENL 4295 Literature of the Plague 3 credits
Exploration of some of the earliest and most powerful British literature written on epidemic disease, with an in-depth examination of bubonic plague in Britain as it traveled in two forms: as a literal disease and as a metaphor.
Prerequisites: ENG 3014

ENL 4303 Selected British Authors 3 credits
Seminar with in-depth study of two or three selected authors in British literature and culture. This course may be repeated with a change of content for up to 6 hours.
Prerequisites: ENG 3014

ENL 4338 Shakespeare & Eliz Culture 3 credits
Seminar with in-depth study of Shakespeare's plays within the context of Elizabethan history and culture. The course focuses on major themes and issues, on close critical reading of Shakespeare's plays, and on related Elizabethan social, political, religious, and cultural contexts.
Prerequisites: ENG 3014

ENL 4930 Selected Topics/British Lit 3 credits
Seminar with in-depth study of a particular topic or issue as it is dealt with in British literature and culture.
Prerequisites: ENG 3014

ENL 6305 Major British Authors 3 credits
Examines the life and times of one or more British author. May be repeated once with a change in content.

ENL 6335 Studies in Shakespeare 3 credits
Study of Shakespeare's works within the context of Elizabethan society and culture.

ENL 6507 British Literature before 1900 3 credits
Examines British literature and criticism within a cultural context prior to the beginning of the twentieth century.

ENL 6508 British Literature after 1900 3 credits
Examines British literature and criticism within a cultural context since the beginning of the twentieth century.

ENL 6907 Directed Individual Study 3 credits
Individual Study in British Literature by graduate students under the direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

ENL 6910 Directed Research 3 credits
Supervised research in preparation for writing a thesis on a topic in British literature. Approval of the coordinator of graduate studies required.

ENL 6920 SpecTop in British Literature 3 credits
Focused study of a specific topic or issue in British literature and culture. Course may be repeated once with a change in content.

ENS 3385 Tching & Lming in English 2 credits
Intended for non-native English speakers with some prior instruction. The course will combine all aspects of communicating in English with special attention to practice of English and to using English in teaching and learning situations. Admission to Swiss Summer Institute or special permission required.
ENV 3006C Fundamentals of Environ Engrg 3 credits
Prerequisites: (CHM 1046C for level UG with min. grade of C OR (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) ) and PHY 2049C for level UG with min. grade of C and (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) )

ENV 4101C Atmospheric Pollution 3 credits
Source, effects, and regulations of air pollutants. Meteorology and dispersion of air pollution. Sampling and analysis of gaseous and particulate air pollutants. Photochemical air pollution and mobile sources.
Prerequisites: ENV 3006C for level UG with min. grade of C

ENV 4341C Solid & Hazardous Waste Mgmt 3 credits
Generation of solid and hazardous waste. Collection, methods, equipment, and costs. Rules, separation and disposal regulations, and management systems for proper control of solid and hazardous wastes. Resource recovery systems. Life cycle analyses for recycling and reuse. Evaluation of engineering systems to minimize costs and maximize sustainability.
Prerequisites: ENV 3006C for level UG with min. grade of C

ENV 4417C Water & Wastewater Treatment 3 credits
Synthesis of physical, chemical and biological concepts Determination of reaction rates and design parameters. relevant for Environmental Engineering practice. Understanding, analysis, synthesis and design of potable water treatment, wastewater treatment, and residuals treatment systems. Field trips to water and wastewater plants.
Prerequisites: ENV 3006C for level UG with min. grade of C

ENV 4612C Sustainability in Engineering 3 credits
This course approaches engineering from a "green" engineering perspective where sustainability is the focus for strategic planning, project scoping, and management as well as throughout the engineering design process. The impact of policy on engineering is investigated, where one of the primary objectives is minimization of environmental impacts.
Prerequisites: CCE 4031C for level UG with min. grade of C

ESE 6215 School Curriculum: Secondary 3 credits
Examines the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the students served. Open to all education graduate students.

ESE 6256 Prob in Curt&Instruc:Secondary 3 credits
For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems of special interest to the participants. Normally, for certified requirements only.

ESE 6342 Teaching & Learn in Sec School 3 credits
Curriculum and instruction principles as applied to content course in secondary settings. Admission to the MAT program or permission of instructor required.

ESE 6344 Classroom Mgt and Organization 2 credits
Development of instructional, organizational, and management knowledge and skills necessary to create a positive classroom learning environment. Admission to the MAT program or permission of instructor required.

ESE 6930 Profession Educator Symposium 1 credits
A team-taught forum that serves as the vehicle through which students link theory, research, and practice. Education faculty will introduce students to an array of topics, including the Educator Accomplished Practices, and outside speakers will familiarize participants with topics of special interest. The PES may be taken more than one time as each semester will focus on a different theme.

ESE 6947 Methods Practicum: 6-12 2 credits
Students spend on day per week in a ten-week supervised field experience to observe and develop effective teaching practices. Field work will be preceeded by an orientation seminar and followed by a post-field assignment seminar.

EUH 1000 Western Tradition, Part I 3 credits
Survey of the development of Western Civilization from ancient times through the Greeks, Romans, Middle Ages and early Renaissance. Interdisciplinary approach will emphasize political, social, economic, religious, and cultural development and periods.

EUH 1001 Western Tradition, Part II 3 credits
Survey of the development of Western Civilization from the late Renaissance through the Reformation, Age of Absolutism, Enlightenment, Age of Revolutions, and regional and world wars. Interdisciplinary approach will emphasize political, social, economic, religious and cultural development and periods.

EUH 2011 Ancient European History 3 credits
Survey of the ancient world from the rise of Near Eastern civilizations through the rise and fall of Greek and Hellenistic cultures. Strong emphasis is given to understanding the nature and contributions of Classical civilizations through the Hellenistic period.

EUH 2021 Medieval European History 3 credits
History of medieval Europe from c. 500-1400 A.D.

EUH 2031 Modern Euro History 3 credits
Thematic survey of Europe in the modern age from the French Revolution to the present.

EUH 3142 Renaissance and Reformation 3 credits
Examination of European history from the Renaissance to the Thirty Years' War (1400-1618), emphasizing the cultural, social, political, and economic character of these times.

EUH 3202 Hist of 17th & 18th Cent Eur 3 credits
Examination of the history of Europe from the Thirty Years' War to the French Revolution. Includes political, intellectual, and economic movements, as well as discussions of the visual arts, literature, and music from the Baroque Era through the Enlightenment.

EUH 3206 History of 20th Century Europe 3 credits
Comparative examination of the social, cultural, intellectual, political, and economic currents in twentieth century Europe. Includes discussions on the significance of arts and letters in the shaping of modern Europe.
EUH 3241 The Holocaust 3 credits
Nazi Holocaust is placed in historical perspective, tracing the history of European antisemitism and analyzing the factors that let to Hitler's victory and the "Final Solution."

EUH 3462 German History 1870-Present 3 credits
Examination of the rise of the German Empire and the vagaries of nationalism, totalitarianism, war, and democracy that have resulted in the modern German state.

EUH 3502 Modern Britain 3 credits
Survey of the social, cultural, economic, and political history of modern Britain since 1750.

EUH 3530 British Empire & Commonwealth 3 credits
History of the British empire and commonwealth from the 16th century to the present.

EUH 3572 Russian Hist 1865 to Present 3 credits
Examination of the nature and fall of late imperial society, the Russian Revolution, the roots of Marxist-Leninist society, and dissolution of the Soviet Empire. Attention will be given to the past and present role of Russia as an international power.

EUH 6915 Research European History 3 credits
Research in primary and secondary sources on aspects of important subjects in European history.

EUH 6939 Seminar in European History 3 credits
Readings seminar in selected topics and problems in European history.

EVR 1001C Intro. Environmental Science 3 credits
An introductory science course emphasizing air and water pollution, water resources, solid waste management, and energy resources. Environmental science explores the interactions between humans and Earth's environment, and the science concepts needed to understand and critically think about current environmental issues.

EVR 2264 Environmental Health 3 credits
Provides a broad overview of environmental health within a human and ecological health context. Students become familiar with a broad range of environmental health issues.

EVR 2861 Intro to Environmental Policy 3 credits
This interdisciplinary course surveys the history and current conditions of environmental policy development and decision-making in the U.S., introducing: the process of environmental policy making; the context in which environmental policy is made; and the conceptual structure, practical implementation, and underlying rationale of environmental policies and regulations.

EVR 3020 Environmental Philosophies 3 credits
Examination of a number of different environmental philosophies as they have been presented through a variety of forms of human expression. Topic center on environmental thought in North American, but philosophies from other cultures, particularly indigenous peoples, will also be studied.

EVR 3021 Environmental Literature 3 credits
Fictional and nonfiction written expression of the natural environment and its significance to different cultures and philosophies will be studied in relation to ecological concerns and cultural values by means of integrated lectures and class projects.

EVR 3025 Cultural Ecology 3 credits
Relationships between human cultures and their environments with emphasis on the adaptive importance of culture and cultural development to the human species and the modification of environments by human cultures.

EVR 3090 South Pacific Environments 3 credits
This Area Studies course is designed to provide an understanding of the ecological principles operating in South Pacific environments. It addresses the biological, physical, and chemical processes and interactions that regulate ecosystems as well as the ways in which humans affect and are affected by these ecosystems. The status of South Pacific environments will be put in perspective of the assessment of global ecosystems. This course also addresses the relationships and conflicts between structured Western science and traditional indigenous cultures and knowledge.
Prerequisites: BSC 1051C

EVR 4026 Human Ecology and Systems 3 credits
Studies human community patterns from a systems perspective to include energy use, food production, population growth, and interactions with other species. Applying ecological principles, students examine the interactions of the human population, the use of renewable and non-renewable resources and pollution problems and solutions.

EVR 4028 Simulation and Modeling 3 credits
Systems simulation and modeling techniques are used in this course to investigate environmental problems and issues and to develop practical solutions. Students will work in teams to develop models for selected issues. The use of models for predicting future impacts and developing policy will be discussed.

EVR 4035 Environmental Law 3 credits
The evolution of environmental law at international, federal, state, and local levels will be studied in relation to the development environmental issues, technologies, and attitudes. Florida-oriented issues will be emphasized in the course with integrated lectures and class projects.

EVR 4323 Restoration Ecology 3 credits
Principles and practices of environmental restoration. Examines ecological theory in relation to restoration using case studies from terrestrial and aquatic ecosystems in South Florida and other areas of the world.
Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L) ) and (BSC 1011C OR (BSC 1011 and BSC 1011L) ) and PCB 3043C

EVR 4324 Integrated Ecosystems Mgmt 3 credits
Holistic approach to planning and management, incorporating ecological, social, and economic concepts into an examination of selected case studies.

EVR 4326 Conservation Strategies Future 3 credits
Conservation strategies enabling communities to build sustainable futures, including the maintenance of healthy and diverse natural environments, renewable natural resources, and sustainable economies. Case studies will be used to identify practical problem-solving approaches by means of integrated lectures and class projects. Prerequisites: Any introductory ecology, environmental biology, or environmental science course.

EVR 4867 Risk Assessment 3 credits
Techniques associated with risk assessment, including dose-
response assessment, threshold responses, exposure assessment, risk characterization, and risk-benefit analysis. Case studies will be used to illustrate these techniques and students will work collaboratively to assess the risk associated with selected environmental hazards. The application of risk analysis to policy development will be discussed.

EVR 4872 Environmental Policy/Law 3 credits
An introduction to environmental policy emphasizing climate change, biodiversity, and economic growth. Also includes discussion of regulatory policies, taxes, market solutions, and other policy solutions applied to energy policy, transportation policy, endangered species, and materials used.

EVR 4905 Ind. Study in Enviro. Studies 1 to 4 credits
Individual study by students under the direction of a faculty member.

EVR 4910 Sr Proj Rsch Environ Studies 1 to 3 credits
Research projects are developed by one or more students under the supervision of a faculty mentor. The research project is designed to hone skills in applying research principles, obtain practice in data collection and analysis, and to develop knowledge and skills in potential professional areas.

EVR 4911 SrProj Pres in Environ Studies 1 to 3 credits
A continuation of the senior project, students will be expected to prepare and present a summary of their research. The presentation may be oral, written, multimedia, or in another form but accompanied by a report. Work will be completed with a faculty mentor.

Prerequisites: EVR 4910 for level UG with min. grade of C
Fee Required

EVR 4920 Current Topics Environ Studies 1 credits
Special sessions exploring the current issues in Environmental Studies. Topics may vary; they are selected on the basis of what is new or currently relevant in the field.

EVR 4924 Environmental Education 3 credits
Survey of historical and current philosophies and their applications in practice. Explores interpretations of what the content and processes of environmental knowledge and understanding ought to be.

EVR 4930 Spec Topics in Environ Studies 1 to 4 credits
Topics of current or special interest to students or faculty. Topics or focus vary depending on student/faculty interest.

EVR 4934 Environmental GIS 3 credits
To provide a basic understanding of geographic information system concepts as applied to environmental science using ArcGIS.

Prerequisites: PCB 3043C (may be taken concurrently)

EVR 4940 Internship in Environ Studies 1 to 3 credits
An internship provides the student with an opportunity to work on a project in the field or laboratory setting, with an environmental agency or education program. This work is usually completed off-campus and the student will have a qualified supervisor at the site as well as a faculty mentor who will jointly evaluate the student's progress.

Prerequisites: ISC 3120

EVR 5039 Soc & Cult Dims of Env Movements 3 credits
This course provides a theoretical perspective on environmental movements and includes brief overviews of environmental philosophy, such as deep ecology and environmental ethics. The course also looks at contemporary issues and trends of study such as environmental justice, global environmentalism, ecofeminism, public participation, and political ecology.

EVR 5145 Ecotoxicology 3 credits
Studies of the principles of pharmacology and toxicology, toxicity testing, various types of toxicants (natural and anthropogenic), their transport and fate, risk assessment, and examination of case studies. Prerequisites: (CHM 1084 OR CHM 1084C OR (CHM 1045C and CHM 1046C) OR (CHM 1045 and CHM 1045L and CHM 1046 and CHM 1046L)) and EVS 4814

EVR 5414 Interpreting the Environment 3 credits
An in-depth examination of the theory, methods, and contemporary practices in interpretation or the environment from literature review, field analysis and research investigations. Design and assessment of exhibits, trails, signage, creative drama, comprehensive programs and their staffing, management and funding. (Permission of instructor required)

EVR 5925 Environmental Education 3 credits
The history, content, strategies, methods, assessment, funding, in the context of environmental education, its evolution to education for a sustainable future will be examined in the framework of local to global programs and trends.

EVR 6022 Environmental Rsch Methodology 3 credits
An introduction to practice and principles of scientific methods. Includes basic observational, sampling and analytical techniques in environmental science. Topics include hypotheses testing, data collection, quality control/quality assurance, statistical analyses of data, and preparation of scientific reports.

EVR 6038 Soc Sci Res Meth / Env Stu 3 credits
An in-depth review of the research process and methodological techniques used in the social sciences, emphasizing the process and techniques most relevant to the field of environmental studies.

EVR 6216 Sci Basis for Wtr Qual Policy 3 credits
A critical analysis of U.S. policies for water quality protection and scientific methods used to develop policy and make management decisions. Students learn the regulatory framework, master selected quantitative analytical methods, and apply methods to real-world data from recent watershed management plans.

Prerequisites: EVR 2861 OR EVR 4872 OR EVS 6937 and (ISC 3120 OR EVR 6022)

EVR 6230 Natural Resource Management 3 credits
The course combines economics, policy, and science to study how natural resources and ecosystems are managed and considers environmental resource management issues as relating to wilderness, recreational, agricultural and urban areas.

EVR 6322 Con App Sustainability 3 credits
Concepts and applications of sustainability will be discussed in the context of conserving healthy and diverse natural ecosystems and renewable natural resources, and the design of sustainable economies on local, regional, national, and international levels.

Prerequisites: EVR 6022 OR PCB 6064 OR OCE 6934
EVR 6404  Environ Operations Mgt  3 credits
Introduces concepts and techniques related to managing and operating environmental agencies and programs and emphasizes essential skills needed to realize strategic goals and outcomes. Course includes fiscal and personnel management, board relations and federal regulation.

EVR 6447  Environmental Risk Mgt  3 credits
This course presents a multi-disciplinary approach for identifying, evaluating, and managing risks from environmental contaminants and technological hazards. An environmental risk management framework is also examined as a strategy for addressing multiple sources of risk.

EVR 6449  Environmental Design  3 credits
Focus is on integrating the built environment with local ecosystems, cultural values, and aesthetics. Understanding. Students will interpret and create blueprints, maps, and designs using software such as Autocad. Emphasis on community design issues and inputs. Includes analysis for selection of native, non-invasive, and drought-resistant plants appropriate for Southwest Florida.

EVR 6907  Independent Stdy Environ Scien  1 to 4 credits
Individual study by graduate students under direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

EVR 6936  Special Topics in Enviro Scien  1 to 4 credits
Courses will be developed based on topics of special interest to students or faculty. Topics or focus will vary.

EVS 4008  Environmental Technologies  3 credits
Appropriate technologies to address resource issues in human societies such as energy use, water use, waste water treatment, solid waste, land use, and food production on a sustainable basis will be studied in this course along with examples of inappropriate and unsustainable technologies in integrated lectures and field exercises.

EVS 4814  Environmental Toxicology  3 credits
Ecotoxicology, natural and anthropogenic contaminants, toxicological assessments, bio-indicators, biological effects of contaminants and mechanisms of response inorganisms, properties, transport, fate and effects of various contaminant groups in terrestrial and aquatic environments, risk assessment and remediation efforts. Prerequisites: CHM 1084C for level UG with min. grade of C OR (CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C).

EVS 6920  Grad Seminar in Current Topics  1 credits
Current issues, concepts, research, and practices related to the areas of ecosystems conservation, green building/design, and sustainability will be investigated and discussed. Prerequisites: Graduate standing or permission of instructor

EVS 6937  Environmental Policy  3 credits
An overview of major environmental and natural resources issues, emphasizing the development of public policies to address them and current controversies. Particular attention will be given to identifying and evaluating the influence of diverse political and economic interests on environmental policy development.

EVS 6941  Environmental Practicum  3 to 6 credits
An internship in the workplace for the purpose of completing his/her study of environmental principles. The course provides the opportunity for students to apply learning derived from the topics covered throughout the master's curriculum within a practice setting. Students will be placed in various work site locations and will be assigned an ergonomic project within that site. To be included in the project are problem identification, hazard analysis, and problematic corrective actions. Each student practicum will be assigned a faculty advisor.

EVS 6970  Master's Thesis  1 to 9 credits
Original research in Environmental, biological, and Marine Sciences. Project to be chosen by the student in consultation with Thesis Major Advisor, advising committee and the Dean of the College of Arts & Sciences. Prerequisites: EVR 6022

EXP 3202  Sensation & Perception  3 credits
Psychophysical and neurophysiological data and theory underlying sensory systems and perceptual processes. Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

EXP 3640  Psychology of Language  3 credits
The purpose of the course is to introduce students to the scientific study of psycholinguistic phenomena. It will cover a broad range of topics from psycholinguistics, including the origin of language, processes involved in reading, computational modeling, the acquisition of language, and the brain bases of language. Prerequisites: PSY 2012 and PSY 3017

EXP 4404  Psychology of Learning  3 credits
Survey of methods, empirical findings and theoretical interpretations in respondent and instrumental conditioning. Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

EXP 4604  Human Memory and Cognition  3 credits
Survey of methods, empirical findings and theoretical interpretations of human learning, attention, memory, verbal learning, judgment, and decision making. Prerequisites: PSY 3044 for level UG with min. grade of C OR PSY 3017 for level UG with min. grade of C

FIL 2000  Introduction to Film  3 credits
Introduction to the basic terminology, techniques, and contributions of film-making and critical analysis skills of film form and content.

FIL 3033  History of Film  3 credits
An overview of film as an art form, an industry, mass medium from its beginnings, the silent era, the sound development, the studios, the rise of the independents, and the current circumstances, including foreign films.

FIN 2100  Personal Finance  3 credits
Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership and personal investing with attention to current economic and legal constraints. This class also covers personal tax considerations, budgeting, retirement, and estate planning. Note: This course is not
FIN 3144 Personal Finance for BusMajors  3 credits
An introductory course to help students achieve their personal financial goals. Topics include personal budgeting, taxes, credit management, major expenses, insurance, investments, and retirement planning.
Prerequisites: FIN 3403

FIN 3244 Money & Capital Markets  3 credits
An examination of money and capital markets with primary emphasis placed on the role of interest rates within these markets.
Prerequisites: FIN 3403

FIN 3324 Commercial Banking  3 credits
An examination of the administrative areas of commercial banking including operations, management of bank assets and liabilities, lending policies, trust and fiduciary activities, and the international and regulatory aspects of finance.
Prerequisites: FIN 3403

FIN 3403 Business Finance  3 credits
A study of financial decision making in the corporate form of enterprise. An analysis of the sources and uses of funds. Emphasis is placed on working capital management, capital budgeting techniques, short and long term financing, and capital structure and value of the firm.
Prerequisites: ACG 2021 for level UG with min. grade of C and ACG 2071 for level UG with min. grade of C and ECO 2013 for level UG with min. grade of C and ECO 2023 for level UG with min. grade of C and CGS 1100 for level UG with min. grade of C and MAC 2233 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C

FIN 3414 Financial Management  3 credits
An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditure, acquisitions, mergers and reorganizations. No case study.
Prerequisites: FIN 3403 for level UG with min. grade of C and (QMB 3200 for level UG with min. grade of C (may be taken concurrently) OR ECO 3410 for level UG with min. grade of C)

FIN 3470 Financial Mgt for Entrepreneur  3 credits
Emphasizes how entrepreneurs can create value and obtain and manage financial resources. Topics may include alternative sources of capital, the impact that alternative forms of organization have on the availability of capital, the management and sources of short-term working capital, and the advantages and disadvantages of going public.
Prerequisites: FIN 3403 for level UG with min. grade of C

FIN 3504 Principles of Investments  3 credits
An introduction to investment/security analysis. Includes an examination of investment instruments, the investment environment, the concepts of risk-return, and the interactive forces between the economy, industries, and individual firms.
Prerequisites: FIN 3403 for level UG with min. grade of C and (QMB 3200 for level UG with min. grade of C (may be taken concurrently) OR ECO 3410 for level UG with min. grade of C)

FIN 3604 Multinational Financial Mgt  3 credits
Introduction to the environment of international capital and foreign exchange markets with examination of the effects of the international business environment on risk, capital budgeting, working capital management, and capital structure decisions of the firm.
Prerequisites: FIN 3403 for level UG with min. grade of C

FIN 3930 Special Topics Seminar  1 to 4 credits
Study of contemporary topics in finance and other issues of special interest.
Prerequisites: FIN 3403 for level UG with min. grade of C

FIN 4244 Case Studies-Corporate Finance  3 credits
Applications-oriented course designed to confront students with the challenges of making complex financial decisions. A variety of corporate finance topics such as working capital management, capital structure decisions, capital budgeting decisions, and dividend policy will be discussed and analyzed.
Prerequisites: FIN 3414

FIN 4443 Financial Policy/Sr. Seminar  3 credits
A capstone course for seniors majoring in finance. Involves quantitative and qualitative analysis of financial policies on independent readings and empirical research. Integrates all areas of business. Coursework may be based from an internal managerial policy-making perspective and
Prerequisites: FIN 3414 for level UG with min. grade of C and FIN 3244 for level UG with min. grade of C and FIN 3504 for level UG with min. grade of C

FIN 4514 Security Analysis  3 credits
An advanced and comprehensive coverage of investment topics including bond analysis, stock options, commodities, interest rate futures, options on futures contracts, portfolio analysis and management, and security market efficiency.
Prerequisites: FIN 3504

FIN 4533 Derivative Securities  3 credits
Introduction to the valuation of derivative securities and their use in risk management. Topics covered include options and futures pricing models, options and futures strategies, arbitrating, and portfolio issues.
Prerequisites: FIN 3414 and FIN 3504

FIN 4900 Independent Study in Finance  1 to 4 credits
Individual study by students under the direction of a faculty member. Topics vary and are usually selected on an individual basis. (Permission of the instructor and department required.)
Prerequisites: FIN 3403

FIN 4934 Student Managed Investment Fund  3 credits
A seminar in security analysis and portfolio management. Students will experience the actual investment management process by analyzing and investing designated funds into a variety of securities. The primary purpose of the course is to give students practical experience in the selection and management of an actual securities portfolio. It is not to maximize gains within the current semester.
Prerequisites: FIN 3504
Corequisites: FIN4514

FIN 4941 Internship in Finance  3 credits
Experiential learning exercise that allows classroom. (Department approval required) (S/U only) for practical application of knowledge acquired in the
FIN 5405 Foundation of Business Finance 3 credits
An introduction to the terminology, methodology, and basic decision models of business finance with emphasis on working capital management, capital budgeting, capital structure, and the dividend decision.
Prerequisites: ACG 6025 and ECO 5005

FIN 6246 Money & Capital Markets 3 credits
A survey of financial markets structures, operations, and instruments with emphasis on flow of funds, interest rate determination, and allocation of resources.
Prerequisites: FIN 5405

FIN 6326 Commercial Banking 3 credits
An examination of theory, practices and policies of management of commercial banks with emphasis on strategic planning and decision-making in banking.
Prerequisites: FIN 5405

FIN 6406 Financial Management 3 credits
Explores the process of securing and allocating funds with the business organization with emphasis on relevant financial decision-making and policy aspects.
Prerequisites: FIN 5405

FIN 6478 Financial Mgt for Entrepreneur 3 credits
An advanced treatment of how entrepreneurs can create value and obtain and manage financial resources. Topics covered include alternative sources of capital, how alternative forms of organization impact availability of capital, and advantages and disadvantages of going public.
Prerequisites: FIN 5405

FIN 6515 Analysis of Investments 3 credits
Covers the investment of objectives, environment and institutions. It deals with the theory models, and tools of analysis required in the management of financial assets.
Prerequisites: FIN 5405FIN 5405

FIN 6525 Portfolio Management 3 credits
An advanced and comprehensive coverage of investments topics including both valuation analysis and portfolio construction and management for debt and equity portfolios. Fund analysis. Coverage will include individual portfolios and mutual Prerequisites: FIN 6406 and FIN 6515

FIN 6605 Multinational Financial Mgt 3 credits
An exploration of the environment of international markets and institutions, with emphasis on implications of international business on capital budgeting, working capital management, capital procurement, and financial market theory.
Prerequisites: FIN 5405

FIN 6900 Independent Study 1 to 3 credits
Individual study and research under faculty direction. Topics vary and are usually selected on an individual basis. Detailed project and/or paper must be completed. (Permission of instructor and department required)
Prerequisites: FIN 5405

FIN 6930 Special Topics Seminar 1 to 3 credits
A comprehensive survey of selected contemporary issues and topics in finance at the graduate level. Individual investigation and reporting emphasized in seminar fashion.
Prerequisites: FIN 5405

FIN 6943 Internship in Finance 3 credits
An experiential learning exercise that allows for practical application of knowledge acquired in the classroom. (Permission of department required)

FRE 1120 Beginning French I 3 credits
This is the second course in the first-year French sequence and introduces students to the French language and culture. Includes grammar, syntax, vocabulary building, cultural readings. Not open to native or bilingual speakers of French.
Corequisites: FRE1120L

FRE 1120L Beginning French I Lab 1 credits
This is the lab that accompanies FRE 1120.
Corequisites: FRE1120

FRE 1121 Beginning French II 3 credits
This is the second course in the first-year French sequence and continues to introduce students to the French language and culture. Includes grammar, syntax, vocabulary building, and cultural readings and discussions. Not open to native or bilingual speakers of French.
Prerequisites: (FRE 1100 and FRE 1100L) OR (FRE 1120 and FRE 1120L)
Corequisites: FRE1121L

FRE 1121L Beginning French II Lab 1 credits
This is the lab that accompanies FRE 1121.
Prerequisites: (FRE 1120 and FRE 1120L) OR (FRE 1100 and FRE 1100L)
Corequisites: FRE1121

GEA 2000 Intro to Geography 3 credits
Comparative analysis of representative regions of the world with emphasis on cultural, political, economic, environmental and physical diversity.

GEB 1011 Introduction to Business 3 credits
Introduction to the many facets of the private enterprise system and the business that operate within it. Exploration of the business arena and the professions and functions needed within any business enterprise.

GEB 3375 Foundations International Bus 3 credits
An overview of the principle aspects of conducting international business. Domestic and international business characteristics are compared. International political and legal environments and their affect on international business are studied. Topics include international trade theory, foreign exchange, export and import strategies, negotiations and diplomacy and human resource management in the global marketplace.
Prerequisites: MAN 3025 for level UG with min. grade of

GEB 3956 Study Abroad in Business 1 to 6 credits
This course provides the opportunity to learn about business practices and cultural differences through the opportunity to visit and learn in a global location outside of the United States.
Prerequisites: MAN 3025

GEB 4890 Business Strategy 3 credits
Senior level capstone experience requiring student teams to analyze and implement solutions to complex business problems and opportunities. Students are required to incorporate knowledge acquired in all areas of their College of Business course of study in actual business situations. (Senior standing and advisor permit
required.
Prerequisites: MAN 3025 for level UG with min. grade of C and MAR 3023 for level UG with min. grade of C and FIN 3403 for level UG with min. grade of C
Fee Required

GEB 6445 Business, Ethics, and Society 3 credits
This class delves into the issues surrounding business' role within society as a whole. Students will use current ethical and societal issues to analyze, discuss, and make recommendations consistent with sound business concepts.

GEB 6895 Business Strategy 3 credits
MBA capstone experience that requires students to analyze and implement solutions to complex organizational problems and opportunities. Students are required to incorporate knowledge acquired in all areas of the MBA program in actual business situations and present their findings in highly professional oral and written formats. Course taken student's final semester.
Prerequisites: ACG 6025 and ECO 5005 and FIN 5405 and MAN 6055 and MAR 6815

GEB 6930 Intro to the Executive MBA 3 credits
Introduces the concepts of critical thinking as a tool for personal and organizational success, working within teams, interpersonal skills, and the utilization of computer applications software to support organizational problem-solving. (Executive MBAs only)

GER 1120 Beginning German I 3 credits
This is the first half of a first year introduction to the language skills in German, reading, writing, listening, comprehension, speaking, and the culture of modern Germany.
Corequisites: GER1120L

GER 1120L Beginning German I Lab 1 credits
Lab that accompanies GER 1120. It elaborates on the topics discussed in the lecture part by stressing oral comprehension, listening, speaking, further reading, writing, and culture plus use of the Internet in German.
Corequisites: GER1120

GER 1121 Beginning German II 3 credits
This is the second half of a first year introduction to the language skills in German, reading, writing, listening comprehension, speaking, and the culture of modern Germany.
Prerequisites: GER 1120 and GER 1120L
Corequisites: GER1121L

GER 1121L Beginning German II Lab 1 credits
This is the lab that accompanies GER 1121. It elaborates on the topics discussed in the lecture part by stressing oral comprehension, listening, speaking, further reading, writing, and culture plus use of the Internet in German.
Prerequisites: GER 1120 and GER 1120L
Corequisites: GER1121

GEY 3001 Introduction to Gerontology 3 credits
The study of aging from an interdisciplinary perspective useful to the beginning health and social service practitioner or individuals interested in learning more about gerontology.

GEY 3002 Family Issues and Aging 3 credits
Interdisciplinary course focuses on issues affecting diverse older adults, families, and others who care for them. Roles and responsibilities, family relationships, Topics include demographics,
intergenerational interactions and strategies that meet care and service needs through education, ethics and practice. (20 hours service learning)  
Prerequisites: GEY 3001 OR GEY 3302

GEY 5005 Orientation to Gerontology 3 credits  
Introduces the study of aging from an interdisciplinary perspective. Emphasis is placed on the field of gerontology, the biological, physiological, psychological, social and societal contexts of aging.

GEY 5038 Advancing Prac in Elder Care 3 credits  
Use of tools for self-directed learning, and application of evidence-based and occupation-centered practice with elders. Students will identify specific goals for learning and apply new knowledge to work in their current practice settings.

GEY 5255 Aging and Adaptation 3 credits  
The societal, environmental and physical barriers that isolate and segregate older adults are examined. Work, education, formal and informal volunteering are analyzed from a productive aging perspective. Adaptive techniques and technology that promote successful aging are examined.

GEY 5325 Programs & Svcs Older Adults 3 credits  
Examines federal, state and local programs and services for frail and well older adults. The course provides an analytical base for understanding the major issues and trends involved in existing and proposed services in the field of aging. Topics include, but are not limited to, long term care, housing and Older Americans Act services.

Prerequisites: GEY 5005

GEY 5619 AAT and the Older Adult 3 credits  
This course provides the necessary content and experiences for Delta Society Pet Partners certification. In addition, this course includes the systematic study of assessment, program design and evaluation techniques for animal assisted therapy with older adults.

GEY 5630 Economics of Aging 3 credits  
Examines the basic economic systems, and their impact on the older adult. Emphasis is placed on the applied aspects of economic planning such as work, pensions, insurance, social security and other support systems that are relevant to gerontology.

GEY 5934 Topics in Gerontology 1 to 6 credits  
A current concept, selected problem or issue pertaining to gerontology is examined. The topic varies according to recent developments in gerontology. This course may be repeated for different topic areas.

GEY 6324 Adv. Prac. Gero TR II 3 credits  
Practice issues for older adults living in institutional settings. Includes nursing home recreational therapy techniques and practice components beneficial to therapists providing care to older adults in long term care settings.

Prerequisites: GEY 6645

GEY 6334 Adv. Prac Gero TR I 3 credits  
Practice issues for older adults living in the community. Includes home health recreation therapy and adult day health programs. The intent is to emphasize therapeutic recreation practice to benefit frail older adults in community-based settings.

Prerequisites: GEY 6645

GEY 6613 The Science of Aging 3 credits  
Examines the biological, physiological, and health theories. Models of health behavior and strategies for health promotion with older adults are discussed. Emphasis is placed on the effects of stress, medications, nutrition, exercise, and other lifestyle factors on the health of older adults. Alternative therapeutic interventions are explored.

Prerequisites: GEY 5005

GEY 6626 Ethnogerontolgy: Diversity Age 3 credits  
Examines the causes, processes, and consequences of race, national origin and culture on individual and population aging. The effect of ethnicity on health behavior, family structure, family behavior, independence, beliefs, and values is analyzed.

Prerequisites: GEY 5005

GEY 6645 Psychosocial Aspects of Aging 3 credits  
Examines the current research on personality, intelligence, cognitive functioning, information processing, behavior in older adults. with an emphasis on assessment, adjustment to change and Psychosocial issues are explored loss, spirituality, depression, dementia, sexuality, and substance abuse.

Prerequisites: GEY 5005

GEY 6655 Assessment of Older Adults 3 credits  
Comprehensive assessment includes evaluation of the older adult in several domains, physical, mental, social, economic, functional, and environmental.

Prerequisites: GEY 5005

GEY 6903 Directed Study in Gerontology 1 to 6 credits  
Students enter a learning contract for supervised study of a topic in gerontology. A substantive problem or issue is identified and selected by students in conjunction with their course director.

GEY 6942 Gerontology Internship 3 credits  
This is a directed field experience in a gerontology program or institution under the guidance of a community gerontology preceptor. The internship experience is based on the student's coursework and career interest.

Prerequisites: GEY 5325 and GEY 6613 and GEY 6645

GIS 5306C Geographic Information Systems 3 credits  
The course provides students with the theoretical and practical knowledge necessary to understand the use and limitations of GIS. Using GIS software, the course will emphasize the relevance of GIS to natural resource management and human systems.

GLY 1000C Physical & Historical Geology 4 credits  
Introduction to the materials which compose the earth, the processes that have changed those materials, and the history of change that has occurred throughout the planet's 4.5 billion years of existence. Topics may include historical development of the sciences, formation of rocks and minerals, deformation of rocks, mountain building and ocean basin formation, surface processes and landform evolution, and geological hazards.  
Fee Required

GLY 2030 Environmental Geology 3 credits  
Environmental issues as they relate to earth science systems, which include volcanic and earthquake hazards, energy resources, air and water pollution, waste disposal, and other global change topics.

GLY 3420C Tectonics and Marine Geology 4 credits  
This course will cover the basic principles of plate tectonics, and
Prerequisites: PHY 2053C for level UG with min. grade of C

PHY 3063C Geobiology 3 credits
Reviews the basic principles of paleontology and its application to problems in the geological, biological & environmental sciences.
Prerequisites: PHY 1010C for level UG with min. grade of C OR PHY 1000C for level UG with min. grade of C

GLY 4074C Meterology & Climatology 3 credits
Atmospheric processes of weather and climate and their effects upon marine and terrestrial systems are explored. Historical records of climate and the methods employed in their study are introduced and used to understand modeling of future climate change.

GLY 4244C Biogeochemistry 3 credits
The importance of chemical cycling of life's most critical elements (e.g. carbon, oxygen, nitrogen, phosphorus, & sulfur) among the earth's spheres is considered in this upper division, INS course.
Prerequisites: CHM 1084C for level UG with min. grade of C and (CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C) and GLY 1000C for level UG with min. grade of C

GLY 4574C Sediment Dynamics 3 credits
Covers fundamental sedimentary processes (erosion, transport and deposition) of coastal and estuarine environments and their effects on the coastal geomorphologic features.
Prerequisites: GLY 4702C for level UG with min. grade of C OR GLY 4700C for level UG with min. grade of C

GLY 4700C Coastal & Watershed Geology 3 credits
Considers those geological and hydrological processes that occur at the Earth's surface. Topics include: physical and chemical weathering, soil formation, sedimentology and stratigraphy, geomorphology and physiography, surface and groundwater hydrology, and human-induced effects and environmental problems.
Prerequisites: GLY 1010C for level UG with min. grade of C OR GLY 1000C for level UG with min. grade of C

GLY 4952 Carbonate Deposition Environrs 3 credits
Summer course in San Salvador, Bahamas. Pleistocene and Holocene limestones are compared against modern tropical environments using principles from sedimentology, stratigraphy, petrology, and paleontology. Provides intensive field and laboratory experiences for geologists and environmental scientists.
GLY 4702C with a C or better or permission of instructor is required.
Prerequisites: GLY 4702C for level UG with min. grade of C

GLY 5575C Sediment Dynamics 3 credits
Surveys theoretical description of fluid and sediment dynamics, fundamental sedimentary processes (erosion, transport and deposition) of coastal and estuarine environments, and their effects on the geomorphic features such as estuaries, deltas and coasts.
Prerequisites: PHY 2053C for level UG with min. grade of C and MAC 2311 for level UG with min. grade of C and GLY 4702C for level UG with min. grade of C

GLY 6566 Carbonate Sed Petrol Stratigr 3 credits
Summer course in San Salvador, Bahamas. Pleistocene and Holocene limestones are compared against modern tropical environments using principles from sedimentology, stratigraphy, petrology, and paleontology. Provides intensive field and laboratory experiences for geologists and environmental scientists. Permission of Instructor required.

GRA 2190 Graphic Design I 3 credits
Fundamental concepts and practices in graphic design, including iconography, signs and symbols, basic typography, and conceptual problem-solving in design methodologies.
Prerequisites: ART 1201 for level UG with min. grade of C OR ART 1201C for level UG with min. grade of C

GRA 3193 Graphic Design II 3 credits
This course covers intermediate issues and practices in typography and production, and explores the design process through specifically applied design problems, taking students through concept refinement to final implementation.
Prerequisites: GRA 2190 for level UG with min. grade of C

GRA 4110 Advanced Graphic Design 3 credits
Advanced exploration of graphic design principles and techniques. Students will produce a body of related work as preparation for a professional-level review.
Prerequisites: GRA 3193 for level UG with min. grade of C

HFT 1000 Intro to Hospitality/Tourism 3 credits
The many different segments of the hospitality and tourism industry are discussed. Scope, size and industry trends are examined. Theories, examples and industry case studies are used to provide students with examples of problem solving of management. Basic industry terminology and management concepts are studied. The important role of service is stressed.

HFT 1382 Intro to Golf Management 3 credits
Basic introduction to Golf business. Overview, People, Business, Game components of PGA courses, teaching golf, History of golf, club repair and fittings, golf club operations, model golf shop principles, career path overview, preliminary skills assessment, day in the life profiles.

HFT 1930 Intro to Hospitality/Tourism 3 credits
The many different segments of hospitality and tourism are discussed. Scope, size and industry trends are examined. Theories, examples and industry case studies are used to provide students with examples of problem solving tools of management. Basic industry terminology and management concepts are studied. The important role of service is stressed.

HFT 2350 Golf for Business and Life 3 credits
The Golf for Business and Life course allows a non-PGM concentration student to develop an appreciation and knowledge of the skills and abilities required to play the game of golf, and to learn the value of golf to networking in the business climate. Available to all majors except the PGM concentration in RHM.

HFT 2352 Player Development 1 credits
PGA required course on the theoretical principles associated with proper golf swing technique. Analysis of the individual students golf game in relation to these principles, development of practice plan to overcome swing flaws, and student preparation for passing the PGA required "Playing Ability Test."

HFT 3003 Intro Resort,Hosp &Tourism Mgt 3 credits
Psychographics survey of Resort, Hospitality and Tourism...
Industries with focus on history, terminology, demographics, psychographics, financial significance, destination. Planning and development, trends and social impacts. Companies, operations and career opportunities are examined.

HFT 3203 Spa Services and Treatments 3 credits
The evolution of the spa industry from ancient civilization to now is explored, tracing the influences of spa traditions from ancient civilizations. Through description, demonstration, and experience, students will understand and evaluate the wide array of spa products, treatments, and services.
Fee Required

HFT 3204 Spa Operations & Management 3 credits
Understanding operations, staffing, and administrative procedures unique to the spa industry. Topics will include legal aspects, safety and sanitation, client file management, retail operations, employment selection, contracts, licensure, and financial management.

HFT 3221 Mgmt Resort Hosp Human Resource 3 credits
Role of Human Resource Management in Resort/Hospitality spectrum. Tight labor management demands dictate the need to attract and retain productive employees. Schedules, tracking, job satisfaction, labor relations and union issues are examined.

HFT 3271 Intro to Club & Spa Management 3 credits
Development, operation and marketing of private clubs: country, yacht, military, city, professional and athletic. Clubs and Resort Spas, Amenities Spas, Destination Spas. Types of Spa treatments and the equipment needs are introduced. Revenue generation, technology, client preferences and marketing of Clubs and Spas.

HFT 3353 Golf Facility Oper. 2 credits
Advanced study of operating a comprehensive golf facility. Non-traditional approach to training personnel in a golf operation and the marketing of a golf course. Principles of developing organizational policies and procedures as applicable to a golf course. Practical application of golf principles in the development of a "model golf shop" (best practices in golf operations) and development of analytical tools necessary in multiple golf facility management.

HFT 3383 Adv. Golf Merchandising Oper. 2 credits
Advanced study of retail operations specifically focusing on retail golf merchandising business operation. Students apply management principles to golf retail operation including preparing "Open-to-buy" budget forecasts and "merchandise assortment plans".

HFT 3407 Resort & Hosp Mgmt Accounting 3 credits
Resort & Hospitality accounting combines financial and managerial accounting for the industry. The focus is on how resort managers use the accounting information that is available to them to guide actions in planning, developing, and controlling their organization.

HFT 3443 Hospitality Info Technology 3 credits
Computer applications for Resort & Hospitality functional areas. Students learn the basics of purchasing, implementing and managing today's information systems. The internet and web site impact on hospitality industry is explored.

HFT 3471 Event Operations/Financial Mgt 3 credits
Focus on operations and financial knowledge required to manage all elements of events including infrastructure, site, human resources, leadership, communications and technology. Financial management will include budgeting, cost control, pricing and cash flow as well as return on investment in both profit and not-for-profit sectors.

HFT 3543 Spa Customer Service 3 credits
Students will gain an understanding of the spa client base and learn marketing practices to attract and retain customers. Provides a comprehensive review of integrative healthcare approaches for nourishing the mind, body, and spirit.

HFT 3572 RHM Sales,ADV&Public Relations 3 credits
Introduction to Resort and Hospitality sales, marketing and public relations.

HFT 3573 R&H Marketing 3 credits
An analysis of marketing process as it relates to resort, club, spa, recreation and hospitality services. Explanations of target and service marketing, customer relationships, experience marketing; hospitality supply and demand, the internet's impact; marketing research and current issues of future trends in resorts, club, spas, and tourism.

HFT 3670 R&H Law,Legal Issues&Risk Mgmt 3 credits
Legal considerations and Risk Management in Resort & Hospitality businesses and organizations, are studied. contracts, safety, loss and government regulations

HFT 3754 Conventions and Meetings Mgt 3 credits
Focuses on the meetings and expositions industry and covers the history, current players technology, management, funding, venues, types of meetings, trade shows and conferences specific to the resort industry. A review of the business structure of conferences/conventions will provide knowledge of human resource issues, supplier challenges, markets by segment and legal issues.

HFT 3757 Principles of Event Management 3 credits
Overview of the event industry including conventions, expositions, and major national and international events and their operational requirements.

HFT 3802 Catering & Special Events 3 credits
Study of special events & catering operations, menu planning and pricing, food procurement, safety and sanitation, human resource management, sales and relationships with other departments, and outside vendors. Emphasis on logistical operations and different market segments.

HFT 3806 Mgt Food & Beverage Operations 3 credits
Principal analysis of directing a food and beverage operations with examination of Food and Beverage in Resort operations.
Fee Required

HFT 3854 Wellness & Healthy Cuisines 3 credits
Education and wellness knowledge necessary to develop a personalized spa and fitness plan. Students will learn basic nutrition and be able to identify and create menus of healthy cuisine for the array of customers in the spa and hospitality industry.

HFT 3930 Spec Top: Resort & Hospitality 3 credits
In depth exploration, analysis, and assessment of topics of special concern to the Resort and Hospitality Management Program.
Fee Required
HFT 4253 RHM Lodging Operations Man 3 credits
Course prepares students with a basic understanding of the detailed workings and theory of Resort and hotel lodging operations and management.

HFT 4273 Resort Timeshare Condo Vac Int 3 credits
Introduction to the fast growing segment of resort condominium operations. Differences between traditional/non-traditional lodging are examined.

HFT 4275 Resort Development & Mgt. 3 credits
Analysis of Management systems and methods for development of full service resorts. Considers management responsibilities for project development, construction, supervision, pre-opening, requirements and operations. Industry tested techniques for attracting travelers and meetings the expectations of resort guests.

HFT 4277 R & H Mgmt. Strateg. Issues 3 credits
Current Resort & Hospitality Management concerns and issues are examined. Problem identifications and solutions explored.

HFT 4286 RHM Prof. Communications&Pres. 3 credits
Practical understanding of communication practices affecting Resort/Hospitality work places. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communications technologies and multi-cultural diversity. Emphasis on using technology to create written and oral presentations and reports with impact.

HFT 4294 R & H Internship 1 to 9 credits
Field Experience - Students gain work experience in industry. A minimum of 500 hours is required.

HFT 4321 R & H Mgmt. Strategic Issues 3 credits
Resort & Hospitality Direct Individual Study by students under the direction of a faculty mentor. The topic will be selected based on mutual consensus between the student and the faculty mentor. Permission of instructor required.

HFT 4380 Golf Course Ownership 3 credits
Business principles and business enterprise theory associated with golf course acquisitions, business planning for golf course investors, bank financing for golf course investors, and theories of appropriate business legal status for golf course ownership. Tax and liability issues in the golf sector, ownership vs. leasing a golf course, golf demographic research and assessing the competition in the golf course industry.

HFT 4381 Golf Exec. Mgmt 3 credits
Theory and principles behind golf association management and PGA of America section management. Project management theory in a golf operation, variance analysis systems as it relates to golf course operations, theories of "yield management," principles of building an employment team, and analysis of golf-specific financial statements and business documents, time management strategies, strategic planning, and long-term planning.

HFT 4408 RHM Budgeting & Finance 3 credits
Course prepares students with a basic understanding of finances that is increasingly demanded of all manager's in the Resort/Hospitality industry. Students sharpen their skills of budgeting and finances. Prerequisites: HFT 3407

HFT 4791 Event Mgt Senior Project 3 credits
Students choose between participation in the planning, marketing and implementation of an actual event for a profit or not-for-profit organization within the university or greater community or a research project and paper. (Event Management Concentration)

HFT 4912 Resort & Hosp. Direct Study 3 credits
Resort & Hospitality Direct Individual Study by students under the direction of a faculty mentor. The topic will be selected based on mutual consensus between the student and the faculty mentor. Permission of instructor required.

HFT 4934 PGM Senior Seminar 3 credits
Senior seminar requiring the student to research a challenging golf industry issue and provide a solution paper and presentation on this topic. Corequisites: PEL4129

HFT 4944 RHM Field Experience 3 credits
Field Experience - Students gain work experience in industry. A minimum of 500 hours is required.

HFT 4945 R & H Internship 1 to 9 credits
Students have the opportunity to relate theory to practice through observation and work experience at approved/ designated industry organization. Students work for a minimum 500 hours to 1500 hours for the agency, and may elect to diversify their internship experiences with more than one organization. Students will be graded by the faculty taking into account the grade the agency representative assign the student for the internship effort and internship paper requirements.

HFT 4955 Resort & Hosp Mgt Study Abroad 3 credits
Intensive study tour, including preparatory work, research, focusing on resort/hospitality management operations in the global market. Differences and similarities between U.S. resort/hospitality industry and foreign markets. Students will tour, meet, and shadow resort management during their study abroad.

HIS 2930 Special Topics 3 credits
Emphasizes selected historical issues or problems. Topics vary and will incorporate interdisciplinary approaches.

HIS 3064 Theories and Methods History 3 credits
Introduces students to the skills, approaches, and theories used by historians; includes both discussion and practice of the craft of the historian.

HIS 3065 Introduction to Public History 3 credits
The course explores the intellectual and career challenges of practicing applied history in the public sector. It emphasizes the various roles played by public historians, for example, writers, administrators, managers, researchers, site evaluators, and policy analysts. Students will learn that public history draws on a wide range of skills and knowledge of other disciplines.

HIS 3470 History of Science &Technology 3 credits
Examines the development of scientific thought and demonstrable technology and their impacts on societies, cultures, and economies. Incorporates material from numerous disciplines, including mathematics.
HIS 3930 Special Topics in History 3 credits
Emphasizes selected historical issues or problems of particular interest to students. Topics vary and will incorporate interdisciplinary approaches.

HIS 3938 Issues Interdisciplinary Hist 3 credits
Interdisciplinary examination of specific historical issues and their relation to at least one of the following perspectives: aesthetic sensibility, cultural diversity, ecology, ethical responsibility, and community awareness. This is a service learning course.

HIS 3955 Study Abroad 1 to 6 credits
An intensive study-travel program.

HIS 4104 Philosophy of History 3 credits
Analysis of historical schools of thought and methodologies from ancient times through the present.
Prerequisites: HIS 3064 for level UG with min. grade of C

HIS 4900 Directed Readings 1 to 4 credits
Intensive readings in selected historical topics. Students should be prepared to read literature across disciplines and to synthesize that material into meaningful intellectual discourse for mid-term and final course examinations or exercises. To registration for this course. Approval from the instructor is required prior.

HIS 4920 Colloquium in History 3 credits
In-depth examinations of selected historical problems or issues.

HIS 4931 Special Topics 4 credits
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

HIS 4936 Pro-Seminar in History 3 credits
Emphasis on the techniques of conducting quality research and on completing a major research paper. Topics will vary. May be repeated one time.

HIS 4940 Internship in History 1 to 6 credits
Provides a supervised work experience in an area historical or cultural organization. Junior standing required.

HIS 5930 Special Topics 1 to 4 credits
An examination of specific topics or themes in history. The theme will vary from semester to semester, and with a change of content, the course may be repeated.

HIS 6067 Public History 3 credits
The theory, methods and practice of history in non-academic settings including museums, national parks, governmental agencies, corporations and community organizations.

HIS 6159 Historiography 3 credits
Development of schools, theories, and philosophies of history since the Enlightenment.

HIS 6445 Postcolonial Theories 3 credits
Readings in the history and theory of aftermaths of European imperialism, with emphasis on passage from colonial to postcolonial regimes and on critiques of colonialism and nationalist decolonization in the nineteenth and twentieth centuries.

HIS 6905 Directed Readings 1 to 3 credits
Independent study under the supervision of a faculty mentor.

HIS 6915 Research Public History 3 credits
Research in primary and secondary sources on aspects of important subjects in public history.

HIS 6939 Seminar in Public History 3 credits
Readings seminar in selected topics and problems in Public history.

HIS 6971 Master's Thesis 1 to 3 credits
Work towards completion of a Master's Thesis.

HLP 4722 Health & PE for the Child 3 credits
Methods and materials of health and physical education in the elementary classroom.

HSA 3110 Prins of Health Services Admin 3 credits
Introduction to the underlying principles of health services administration. Emphasis on health policy, health planning, marketing health care services, current health problems, personal health care services, bioethical decisions, and health personnel.

HSA 3111 US Health Care Systems 3 credits
An overview of health care delivery in the US including hospitals, ambulatory care, medical education and workforce, financing health care, managed care, long term care, mental health services, the role of government, and technology.

HSA 3124 Comparative Hlth Srv Del Sys 3 credits
Overview of the major models for provision and financing of health care used around the world.

HSA 3150 Health Care Policy in US 3 credits
Overview of health care policy and policymaking in the US, including the historical perspectives, the policy formulation process, role of government, Medicaid, Medicare, policy reform, politics and consumer protection.

HSA 3184 Leadership & Super in Hlt Svcs 3 credits
Leadership theories, philosophies, concepts, and applications to roles of supervisors and managers in health services organizations. Emphasis on organizational theory and the economic and financial aspects of the health care delivery systems.
Prerequisites: HSA 3117

HSA 3412 Transcultural Health Care 3 credits
Explore the culture, values and belief systems of health care clients who speak different languages and come from distinct cultural backgrounds.

HSA 4109 Principles of Managed Care 3 credits
An overview of the evolution of managed care, including its structure and function, payment incentives, relation to the market, physicians, public programs, public policy, and ethical issues.

HSA 4140 Program Planning & Evaluation 3 credits
Basic concepts of planning and evaluation as the fundamental tools of program design and development in health services organizations.
Prerequisites: IHS 4504

HSA 4170 Financial Mgt in Health Care 3 credits
Models and principles of health care financial management and their implications for decision-making. Focus on health care...
reimbursement policies and related accounting principles, financial principles, and tools employed to manage finance in a health service organization.

HSA 4191 Health Care Info Systems 3 credits
Introduction to health care information systems. Emphasis on advances in information technology, the general applications and management of information, databases and database management systems, microcomputer, internet, and medical informatics concepts and applications.

HSA 4222 Long Term Care Administration 3 credits
Overview of the administrative structure, services and regulatory requirements of long term care facilities. Focus on licensing, structural requirements, roles and duties of administrators, staffing patterns, services, resident care issues, and reimbursement. Special emphasis on organizational management and operations control, federal and state regulations, codes and statutes related to long term care in the United States, and particularly in Florida.

HSA 4223 Advanced Long Term Care Admin 3 credits
Application of management principles and practices in long term care administrations.
Prerequisites: HSA 4222

HSA 4251 Food Service Management 3 credits
Basic principles of food service management in both commercial and non commercial sectors of the food service industry. Areas of focus include general principles of food service, food production, purchasing and storage, menu planning, nutrition, and dining services.

HSA 4340 HR Mgmt in Health Servcs Orgs. 3 credits
Theories, principles and concepts related to human resources management in health services organizations. Focus on the human resource policies, procedures, functions, and outcomes that influence the effectiveness of an organization's employees.

HSA 4502 Risk Mgmt in Health Services 3 credits
Introduction to principles of risk management in health services organizations. Focus on activities of health care practitioners to reduce losses associated with clients, employees, property, or potential organizational liability. Special emphasis on federal and state laws and regulatory agencies.

HSA 4811 Practicum I in LTC Admin 3 credits
This course is a 250 hour internship at a long term care facility under the supervision of a qualified Administrator-in-Training preceptor. This is the first half of the 500 hour internship. (Advisor approval needed.)
Prerequisites: HSA 4223

HSA 4812 Practicum II in LTC Admin 3 credits
This course is a 250 hour internship at a long term care facility under the supervision of a qualified Administrator-in-Training preceptor. This is the second half of the 500 hour internship. (Faculty/advisor approval needed.)
Prerequisites: HSA 4811

HSA 4817 Practicum in Health Serv Admin 3 credits
Under the supervision of a community health services administrator, the student gains practical experience and applies knowledge gained in health services administration. Program in Health Science Special Conditions: Admission to the B.S. and completion of all prerequisite courses or consent of the Department Chair.

HSA 4901 Dir Study in Hlth Serv Admin 1 to 6 credits
Supervised study of a health services administration topic. Content is selected by students in conjunction with their course director. The course broadens knowledge and may include a practice experience. Prerequisites may be required depending on the directed study. Consent of the Department Chair is required.

HSA 4931 Topics in Health Services Admin 1 to 6 credits
Current concept, selected problem, or issue in health services administration. Topics vary according to recent developments in health services administration. May be repeated for different topic areas. Prerequisites may be required depending on the directed study. Consent of the Department Chair is required.

HSA 5103 US Models-Health Care Practice 3 credits
This course examines various models of health care practice in the United States, including services in home health care, acute care, hospice, private and non-traditional holistic health care practices. Issues related to scope and method of practice in a dynamic health care environment are addressed. Special Conditions: Admission to the College of Health Professions MS in Health Professions MS in Health Science program and completion of prerequisite courses: or consent of the Department Chair.
Prerequisites: HSA 5117

HSA 5112 Comp. Hlth Svcs. Delivery Syst 3 credits
Introduces and contrasts the organization and structure of health care delivery in the United States and other countries. Special emphasis is placed on the different models of health care systems from selected countries, representing various social, national, and fee-based health care systems. The conceptual framework of the systems are analyzed and issues such as access, quality, reasonable cost, and rationing are discussed. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.

HSA 5115 Health Svcs Mgmt & Operations 3 credits
Introduces the student to the study of management and leadership, and the concepts, models, and research findings associated with organizational theory and its applicability to the health service organization. The course focuses on the skills and techniques the health care leader will use to strategically plan and organize the health care organization. The course provides an approach for assessing, mobilizing, and motivating a health care organization's work force. Leadership issues, organizational behavior, motivation, The content includes management styles, communications, public speaking, planning, decision-making, team building, and inter- and intra-organizational relationships. The course focuses on ethical considerations, quality control, risk management, labor relations, and organizational change on health service management and operations. Special conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.

HSA 5126 Concepts/Princ of Managed Care 3 credits
Introduces the student to the principles, structure and operations of managed care. The aspects of managed care contracting and the organization and delivery of health care services under this type of system are organized and delivered. Negotiate a managed care contract and its complex Students gain skills necessary to interpret and provisions. Issues concerning consumer behavior, rationing, access, cost containment, regulation, competition, ethics regarding...
managed care and the implications of government sponsored programs including Medicare and Medicaid are also addressed.

Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the department chair.

HSA 5225 Long Term Care Administration 3 credits
Presents an overview and examination of the administrative structure, services and regulatory requirements of long term care facilities. Licensing, structural requirements, roles and duties of administrators, staffing patterns, services, resident care issues, and reimbursement are the focus. Special emphasis organizational management and operations is placed on control, federal and state regulations, codes and is placed on statutes related to long term care in the United States, and particularly in Florida. Admission into the College of Health Professions MS in Special Conditions: Health Science program and completion of all prerequisite courses; or consent of the Department Chair.
Prerequisites: HSA 5115 (may be taken concurrently)

HSA 5425 Reg. of Medical Industry 3 credits
Acquaints students with laws regulating the healthcare marketplace. Explores federal and state regulations bearing upon healthcare transactions and practices as well as risk identification requiring analysis and corrective actions.

HSA 6149 Planning/Marketing Health Serv 3 credits
Focuses on the analysis of strategic planning and marketing processes used by health care managers. The student develops and applies strategies for management and marketing of health care services. Course topics include fundamentals of marketing strategies including pricing, promotion, distribution, and product/service mix, organizational planning, creation of business plans, and feasibility analysis for strategic planning in health care organizations. Special emphasis is placed on incorporating the concepts of strategic planning models and marketing methodologies as they apply to patients, physicians, and managed care buyers as separate markets for health care services. Special conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of department chair.
Prerequisites: HSA 5115

HSA 6155 HealthPol & Econ Issues in HSO 3 credits
Focuses on the principles of health economics essential to understanding current trends in the health care field and the development and implementation of health policy. Principles of microeconomic theory, including supply and demand for health care and how it applies to health service delivery are addressed. The relationship between economics and health policy formulation, implementation, and modification and its relationship to payment plans including health insurance are explored. Emphasis throughout the course is on applying economics to understand the current health care system and the development and impact of health policy in the United States. Case studies and group projects are integrated to reinforce the concepts and theories presented. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.

HSA 6179 Models of Fin Mgmt-Health Svs 3 credits
Introduces the student to the fundamentals of financial management and managerial accounting necessary for successful management decision making in health care institutions. Financial management models including managed care, health maintenance organizations, individual choice payment plans including fee for service, Medicare and Medicaid are examined. The principles and application of billing, including use of diagnostic codes is also emphasized. Additional topics include financial accounting and reporting, program auditing, budgeting, analyzing financial statements, utilization review, cost measurement analysis, pricing of health services, and capital investments as related to models of financial management. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.

HSA 6198 Inform & Hlth Mgmt Info System 3 credits
The course integrates the study of information systems science and technology and applies it to the health services administrator. Emphasis is placed on the management of information systems and the application of information technology in health service administration, databases, database management systems, computerized models for clinical and administrative decision-making, and operations in health service organizations. Special Conditions: Admission into the College of Health Professions MS in Health Sciences program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: HSA 5115

HSA 6342 Human Res Mgmt for HC Mgrs 3 credits
Principles and concepts related to human resource management in health services organizations, with an emphasis on application of knowledge and skills for health care managers.

HSA 6385 Planning, Eval & Quality Mgmt 3 credits
An overview of the tools and techniques of planning, evaluation and quality management in health services organizations with a focus on applied decision-making tools for managers.
Prerequisites: HSA 5115 and IHS 5508 and IHS 6500

HSA 6520 Managerial Epidemiology 3 credits
Use epidemiological tools to inform management decisions in health services organizations.
Prerequisites: IHS 5508

HSA 6905 Dir Study-Health Services Admin 1 to 6 credits
Students enter a learning contract of supervised study of a topic in health services administration. A substantive problem or issue is identified and selected by the student in conjunction with their course director. The course broadens expertise in health services administration. Prerequisites may be required depending on the directed study. Consent of the Department Chair is required.

HSA 6930 Topics in Health Services Admin 1 to 6 credits
A current concept, selected problem or issue pertaining to health services administration is examined. The topic covered varies according to recent developments in health services administration. The course may be repeated for different topical areas. Prerequisites may be required depending on the topic. Consent of the Department Chair is required.

HSA 6933 Entrep in Health Serv Admin 3 credits
The course focuses on the principles and application of traditional and non-traditional techniques of planning, implementing, and managing a new health service organization; the fundamentals of organizational management, and market analysis. Emphasis is placed on conducting market analysis and relating the data to the organization, community, and region. Special focus is placed on understanding the policy and economic challenges that face the
president/owner of a new health service organization. Testimonials from entrepreneurs and simulations are integrated within the course to allow students to develop entrepreneurial skills. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite course; or consent of the Department Chair.

HSA 6942 Health Serv Admin Internship 3 credits This is a directed field experience in a health service organization under the guidance of a community health services administration preceptor. The student gains internship experience in an assigned agency selected by the student and faculty advisor based on the student's background and career interest. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of core courses; or consent of the Department Chair. Prerequisites: IHS 6112 and IHS 6500

HSC 2106 Choosing Wellness 3 credits Survey of topics in health and wellness of concern and interest for university students. Offers guidelines for self-directed responsible living. Emphasis placed on practical application of health concepts to university students personal, community, vocational, and leadership roles.

HSC 2577 Nutri Human Health & Wellness 3 credits Principles of human nutrition and the relatedness of nutrition, health, disease and wellness. Emphasis on dietary goals, food pyramid and recommended allowances; psychosocial influences and perceptions related to diverse populations; nutrition, nutritional risk factors and related diseases.

HSC 3032 Intro to Health Prof Practice 4 credits Introduction to principles of health professions practices, and roles of health care professionals. Emphasis on models of care including case management, total quality management (TQM), continued quality assessment (CQI), clinical outcomes assessment, and basic clinical skills.

HSC 3131 Health Counseling 3 credits Emphasizes health counseling skills with attention to self-understanding; community outreach and provider training for culturally-sensitive health and wellness services; application to individuals and groups utilizing a psycho-educational approach. Prerequisites: HSC 3201 (may be taken concurrently) and HSC 3582 (may be taken concurrently).

HSC 3201 Healthy Communities 3 credits Factors that impact the health of the global and local community using World Health Organization concepts and Healthy People 2010 health indicators. Roles of community services that promote healthy lifestyles and environments are pursued.

HSC 3208 Health Education Foundations 3 credits Health education as a process and profession for promoting healthy individuals, groups, and communities. Seven areas of responsibility of health education are outlined; task analysis and basic curriculum elements are also covered.

HSC 3243 Teach & Learn in Health Prof 3 credits Styles of learning and teaching strategies and their application to individualized, small, and large group instruction, structured classroom teaching, presentations, and practitioner training. Evaluation and analysis of each learning method and teaching strategy are utilized by students to determine effective selection for implementation in training and educating clients.

HSC 3531 Medical Terminology 3 credits A study of the language of medicine including Greek and Latin roots, suffixes and prefixes, word construction, and word application.

HSC 3582 Occupation and Participation 3 credits Introduction of everyday occupations of people in a community and the influence of active participation in meaningful activities of one's health. Occupational interests and activities of individuals and groups are studied across the lifespan.

HSC 3720 Health Persp & Assessment 3 credits Holistic approach to various health perspectives, assessment principles and methods.

HSC 4007 Accred for HP Educators 3 credits Accreditation guidelines for health professions practice facilities and education programs, the different types of accreditation agencies, and the process of self-assessment in accreditation. Introduction to legislation and other forces which impact and influence certification, licensure, and accreditation standards and guidelines. Prerequisites: HSC 4250

HSC 4150 Impacts of Substance Abuse 3 credits Examination of multiple impacts of substance abuse on individuals across the lifespan, the family, and the community; trends in treatments of substance use disorder; associated problems of mental illness and homelessness are also considered.

HSC 4231 Client Ed in Health Care 3 credits Methods for training and educating health care professionals and clients. Emphasis on a working relationship with the community and health care service organizations to develop educational programs related to health, wellness, disease, disease prevention, and quality of life as defined by organization of community needs, culture, and strategic planning. Prerequisites: HSC 4250

HSC 4241 Needs Assmt & Program Plan 3 credits Utilizing community partnerships, students develop skills for conducting needs assessment, planning health and wellness programs, and selecting outcome measures to determine their effectiveness. Prerequisites: HSC 3201 for level UG with min. grade of C

HSC 4250 Task Analys & Curr Dev in HP 3 credits Task analysis techniques as they apply to the classroom and practice settings, and a broad overview of theoretical approaches to curriculum and program development. Prerequisites: HSC 3243

HSC 4265 Cont Educ for the Health Prof 3 credits Theories and principles of adult education and the applications to health professions continuing education and professional development are examined. Emphasis is also placed on the history, philosophy, process and requirements for obtaining continuing education and continuing education credits (CEUs) in various health professions. Students and student teams participate in projects that involve development of a continuing education program thereby enhancing their understanding of materials presented. Special Conditions: Admission to a program in the College of Health Professions completion of the prerequisite
courses or consent of the Department Chair.

HSC 4500 Epidemiology 3 credits
Epidemiology principles, concepts, and applications to health professions practice and health policy. Epidemiological studies, research methods, and distribution studies and determinants of health, disease, injuries, environmental relationships to diseases, and methods of evaluating patterns as disease determinants are examined. Prerequisites: IHS 4504

HSC 4510 Statistical Meth for Hlth Care 3 credits
Introduction to statistical techniques for their applications to the analysis and evaluation of health services delivery. Basic descriptive and inferential statistics and application of statistical methods and techniques to health services.

HSC 4555 Health Conditions 3 credits
Overview of disease processes, interventions, and impairments. Implications of disease or acute and chronic conditions on the individual's participation in everyday activity.

HSC 4736 Health Profs Pract Correlation 2 credits
Application of theories and models of health professions. Students select a case or problem in consultation with the course director, interpret and relate to the problem, and develop and recommend solutions. Prerequisites: HSC 3720 and IHS 4504

HSC 4818 Practicum in Health Prof Educ 3 credits
Under the supervision of a community health profession the student gains practical experience and applies knowledge gained in the health professions education core. Prerequisites: HSC 3231

HSC 4819 Practicum in Health Prof Prac 3 credits
Under the supervision of a community practitioner preceptor, the student gains practical experience and applies knowledge gained in the health professions practice core. Selected projects are jointly decided by the faculty, preceptor, and student. Special Conditions: Admission to the B.S. in Health Science program in the College of Health Profession and completion of prerequisite courses; or consent of the Department Chair. Prerequisites: HSC 4736 and HSC 4906

HSC 4905 Dir Study: Hlth Prof Education 1 to 6 credits
Supervised study of a topic in health professions education. Content is selected by students in conjunction with their course director.

HSC 4906 Dir Stud: Health Prof Prac I 1 to 3 credits
Supervised study of practice topics in the health professions. Content is selected by students in conjunction with their course director, and is usually specific to the student's practice discipline.

HSC 4907 Dir Stud: Health Prof Prac II 3 credits
Supervised study of practice and/or practice topics in the health professions. Content is selected by students in conjunction with their course director, and is usually specific to the students' practice discipline. This course broadens practice expertise. Special Conditions: Admission to the B.S. in Prerequisites may be required depending Health Program and consent of the Department chair. on the directed study.

HSC 4910 Capstone in CHS 3 credits
Variable field experience for applying community health and/or health education concepts and skills learned to a specific community setting. Prerequisites: HSC 4241 for level UG with min. grade of C and (HSC 4703 for level UG with min. grade of C OR HSC 3243 for level UG with min. grade of C) and IHS 3101 for level UG with min. grade of C and IHS 3203 for level UG with min. grade of C and IHS 4504 for level UG with min. grade of C and IHS 4938 for level UG with min. grade of C

HSC 4932 Topics in Health Prof Educ 1 to 6 credits
Current concept, selected problem, or issue in health professions education is examined. The topic covered varies according to recent developments in health professions education. The course may be repeated for different topic areas. Prerequisites may be required depending on the topic. Consent of the Department Chair is required.

HSC 5009 Accred in the Health Prof 3 credits
The structure, function, and role of accreditation agencies for academic and health services institutions in the health professions are examined. Emphasis is placed on the examination of the accreditation process and mechanisms that allow institutions to be in compliance with accreditation standards and guidelines. Legislation and regulations, and their relationship to Federal, state, and local accreditation and approval are addressed. Students participate in simulated accreditation projects including writing components of a self-study document, reviewing self-study documents, performing an accreditation site visit, and participating in an accreditation agency review process. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.

HSC 5260 Teaching Meth for Health Prof 3 credits
Presents the different learning methodologies and teaching strategies utilized in health professions education programs. Particular emphasis is placed on coordination and integration of the practice and didactic education components, learning-centered, technology-assisted and competency-based models of instruction. Independently to research a teaching strategy and to apply Students work that strategy through development and/or presentation of a unit of instruction.

HSC 5268 H.P. Faculty Roles & Responsib 3 credits
Outlines the different roles of faculty involved in providing health professions education at academic institutions and practice sites. The educational and experiential qualifications, special skills, responsibilities, and duties of health professions faculty are examined.

HSC 5269 Cont Educ for the Health Prof 3 credits
Focuses on the development of continuing education and professional development programs. Various theories of adult education and curriculum; and acquisition of continuing education credits (CEUs) from professional agencies and/or academic institutions are emphasized. Selections of continuing education topics, program development, and marketing strategies for continuing education programs are addressed. Students participate in the development of a continuing education project within a selected health professions discipline. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: HSC 6258

HSC 6236 Client Education in the HP 3 credits
Application of instructional design principles for training and educating clients in the health care setting.
Prerequisites: HSC 6715

HSC 6258 Curric Devel-Health Prof Educ 3 credits
Serves as a comprehensive study of the philosophies, principles, and practices utilized in the development and implementation of health professions education curricula. Current research on learning theory and curriculum development is stressed. Emphasis is placed on mechanisms utilized to integrate the didactic and practice education components of health professions education programs. Students are required to independently develop a curriculum specific to their discipline or elaborate on a select component of the curriculum as a term project. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: HSC 5260

HSC 6715 Ed Measrmt & Eval in Hlth Prof 3 credits
Presents the different methods of measurement, evaluation, and assessment of practice and didactic competencies as they relate to the cognitive, psychomotor, and affective domains. Students develop, validate, and apply assessment objectives in both the practice and didactic setting. Identification of various evaluative instruments and the rationale for selection is explored. Students interpret and evaluate standardized tests with regard to validity and reliability and relate this knowledge to their own test-making abilities. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: HSC 6258

HSC 6856 Adv Pediatric Practicum 3 credits
Each student registered for this practicum designs, with instructor approval, a clinical learning experience. Learning goals for the practicum are student identified, address a professional need, and reflect a semester long commitment. Each individually designed clinical learning with the goals and mission of the experience must be consistent student's supporting work site. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: IHS 5600 OR IHS 5605 OR IHS 6606 OR IHS 6607

HSC 6905 Directed Study in Hlth Prof Ed 1 to 6 credits
Students enter a learning contract for supervised study of a topic in health professions education. A substantive problem or issue is identified and selected by students in conjunction with their course director. The course broadens expertise in health professions education. Prerequisites may be required depending on the directed study. Consent of the Department Chair is required.

HSC 6911 Health Prosfs. Capstone Project 2 to 6 credits
The capstone project is an applied experience that integrates the principles, theories and concepts of the student's career concentration with problems or issues existing in the health field.
Prerequisites: IHS 6112 and IHS 6500

HSC 6912 Grant Writing-Health Professin 3 credits
Provides students with a conceptual framework and mechanics for grant writing. Emphasis is placed on sources of grants for health professions and practice, critical analysis and evaluation of the literature, technical and scientific writing. Minor emphasis is placed on the comparison of grant writing with writing journal articles, reports, presentations and manuals. Students are expected to write a grant proposal for a simulated or actual grant.
Completion of prerequisite courses required or consent of the department chair.
Prerequisites: IHS 6112 and IHS 6500

HSC 6935 Topics: Health Prof Education 1 to 6 credits
A current concept, selected problem, or issue pertaining to health professions education is examined. The topic covered varies according to recent developments in health professions education practice. The course may be repeated for different topical areas. Prerequisites may be required depending on the topic. Consent of the Department Chair is required.

HSC 6943 Health Prof Educ Internship 3 credits
This is a directed field experience in a health professions education program or institution under the guidance of a community health professions education preceptor. The student gains internship experience in an assigned agency selected by the student and faculty advisor based on the student's coursework and career interest. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: IHS 6112 and IHS 6500 and HSC 6715

HSC 6975 Health Professions Thesis 1 to 6 credits
The thesis experience is based on student consultations with a faculty advisor to focus on a health professions research endeavor related to the student's career concentration. The student evaluates and synthesizes materials learned throughout the program to conduct a sophisticated research project including a review of the literature, research design, data analysis, formulation of conclusions, and a written thesis. This course is recommended for students who desire to pursue a doctoral degree or a research-oriented career. The course may be taken in increments of a minimum of two credits in a given semester with a minimum of six credits necessary for completion of thesis requirements. Students must be registered for credits in the course in the semester in which the thesis is defended. Special Conditions: Admission into the College of Health Professions MS in Health Science program, completion of prerequisite courses and completion of career concentration core; or consent of the Department Chair.
Prerequisites: IHS 6112 and IHS 6500

HUM 1931 First Year Humanities Seminar 3 credits
A general education humanities elective, this seminar is designed around the marquee-learning outcome and the first-year reading project. The content of the book and the specific learning outcome selected for the year will focus the direction of the content of the course. Material from philosophy, literature, the arts, communication, and religion will be used to expand on the themes raised in the first year reading project book. This course also addresses the theme of community awareness and involvement and requires service-learning.

HUM 2395 Environmental Humanities 3 credits
This course will explore central concepts of environment, community, and sustainability, through the lens of the humanities disciplines including literature, the arts, communication, religion and philosophy. Students will engage in a service project through the "Wings of Hope" Program.
HUM 2510  Underst Visual & Perform Arts  3 credits
This survey provides students with an understanding of and exposure to both the visual and performing arts. Basic components of this course will be on introduction to theory and structure of a variety of art forms combined with visits to theaters, music productions, and art galleries. Emphasis will be on personal and critical responses to these experiences.
Prerequisites: ENC 1101 for level UG with min. grade of C

HUM 2930  Intro to Humanities  3 credits
Using the methods of the Humanities, the course explores three to four stories, themes, figures, etc. through interdisciplinary analyses of texts and artifacts.

HUS 1001  Introduction to Human Services  3 credits
Exploration of the field of human services including health, mental health and retardation, public administration, education, social welfare, recreation, criminal justice, youth services, and rehabilitation. Emphasis is placed on the variety of expectations and perceptions of consumers of human services. Basic helping and communication skills will be developed by the students.

HUS 2110  Basic Counseling Skills  3 credits
Emphasis is placed on the encouragement of personal growth and the development of fundamental interpersonal helping skills, as well as the promotion of knowledge of styles of helping fostered in a variety of human service settings.

HUS 3020  Human Growth & Development  3 credits
The nature of social systems perspective for analyzing the impact of family, culture, societal institutions and ethnicity on individual growth and development. Focus on major theories of human growth and development across the life span, interdependence of social functioning, and the impact of such factors as race/ethnicity, minority status, developmental disabilities, sexual orientation, socio-economic status.

HUS 3021  Interventions w/Gps &Commun  3 credits
The structure and function of groups in society. Focus on the community and its formal, informal helping networks, and applications in human service organizations and client interventions. Topics may include group processes and team functioning, treatment groups and problem solving, task groups and communication systems.
Prerequisites: HUS 1001 for level UG with min. grade of D and HUS 2110 for level UG with min. grade of D

HUS 3304  Intervention w/Indiv &Families  3 credits
Introduction to practice knowledge and skills necessary for beginning human services practice. Focus on pluralistic, eclectic frameworks for planned orderly change processes with individual and family client systems. Topics may include self-awareness, personal values, observation skills, basic assessment skills, relationship development skills, communication skills, interviewing skills.

HUS 3410  Case Mgmt Prob Solving-HumServ  3 credits
Approaches used by the human services professional to meet the service needs of the client. Case management with children and families, elderly, chronically mentally ill, developmental and physically disabled, and those in health care settings.
Prerequisites: HUS 1001 for level UG with min. grade of D and HUS 2110 for level UG with min. grade of D

HUS 3601  Human Services Delivery System  3 credits
Systems servicing health and welfare needs at the local, state, and national levels. Focus on institutional origins of human services systems types of systems, and similarities and differences among fields of practice.
Prerequisites: HUS 1001 for level UG with min. grade of D and HUS 2110 for level UG with min. grade of D

HUS 3720  Evaluative Rsrch in Human Svcs  3 credits
Experimental and quasi-experimental research and program evaluation tools. Emphasis on gathering data; operationalizing research and evaluative hypotheses, and analyzing, interpreting, and critiquing evaluative research produced by other human services professionals. Introduction of basic statistical applications and the use of program software in generating statistics.

HUS 4500  Ethics in Human Services  3 credits
Ethical issues encountered by human services professionals and ethical theory within the context of administrative discretion, vary.

HUS 4508  Substance Abuse & the Family  3 credits
Definition and scope of substance abuse as a social and family problem. The impact of substance abuse on family relationships. Substance abuse education in families. Approaches to support for families of persons with substance abuse problems. Treatment and intervention strategies for families of substance abusers.

HUS 4539  Elder Abuse & Neglect  3 credits
Elder abuse and neglect within the society. Emphasis on differentiation among the various forms of elder abuse (emotional, physical, financial and institutional) and how elder abuse differs from neglect. Contextualization of elder abuse and neglect within the larger family violence literature with approaches for prevention and intervention.

HUS 4554  Int'l & Multicultural Programs  3 credits
Comparative study of international and multicultural human services programs. Usually requires a foreign study tour at student expense.

HUS 4560  Social Problems & Policy  3 credits
Survey the political and administrative context in which public policies are developed, implemented, and evaluated. Emphasis on program funding and financial reporting requirements and the policy cycle. Topics may include long term care, gerontology, mental health, substance abuse, homelessness, child and family programs, migration/immigration, and juvenile crime and criminology.

HUS 4604  Issues in Health Services  3 credits
Current issues and topics in health services of concern to Human Services providers in Southwest Florida.

HUS 4683  Substance Abuse Treat&Resource  3 credits
Survey of contemporary treatments available to substance abusers. Examination of multidisciplinary approaches to substance abuse treatment. Compare available treatment facilities with model programs. Review educational materials and resources for use with substance abusers.
HUS 4850 Experience in Human Services  3 to 9 credits
Supervised field internship required of all Human Services majors. Placement is made by the Field Coordinator. Five hundred contact hours are required over one or two semesters. Departmental approval required.
Prerequisites: HUS 3020 and HUS 3201 and HUS 3304 and HUS 3410 and HUS 3601 and HUS 4500
Corequisites: HUS4931

HUS 4901 Directed Study in Human Svs  1 to 3 credits
Individualized instruction to meet the needs for study in areas of a particular area of interest.

HUS 4931 Human Svcs Integrat Senior Sem  3 credits
The capstone course in the Human Services Program. Classroom and field learning are integrated. Students prepare to enter the professional field of practice.
Prerequisites: HUS 3410 for level UG with min. grade of D and HUS 3304 for level UG with min. grade of D
Corequisites: HUS4850

HUS 4932 Issues in Aging  3 credits
Current issues in aging of interest to Human Services providers in Southwest Florida are examined. This includes policy, practice, service delivery, and community needs. Exact content varies with current conditions.

HUS 4935 Issues in Families  3 credits
Current issues in families of interest to Human Services providers in Southwest Florida are examined. This includes policy, practice, service delivery, and community needs. Exact content varies with current conditions. May include alternative family groups, cultural variations, dispensed families, and others.

HUS 4937 Issues in Vulnerable Pop  1 to 3 credits
Current issues in vulnerable populations providers in Southwest Florida are examined. This includes of interest to Human Services policy, practice, service delivery, and community needs. Exact content varies with current conditions and faculty expertise.

HUS 4940 Human Services Field Seminar  1 to 3 credits
This seminar is taken concurrently with Experience in Human Services, which is an individually tailored field experience. The seminar integrates classroom theory and practicum experiences. All basic human services generalist knowledge is integrated and skill development is reinforced from field practice.
Prerequisites: HUS 3410 for level UG with min. grade of D and HUS 3304 for level UG with min. grade of D

IDH 1001 Honors Seminar I  3 credits
This is the first of a series of courses required of all students in the honors program. In the Honors Seminar I, students will explore issues important in self-discovery and understanding, as well as the student's role in the educational process. Topics include styles and ways of learning, basics of computer use (which will include building a web page for the honors program), methods of inquiry, logic and writing a persuasive argument, building a life philosophy career exploration, and dealing with stress and perfectionism.
Prerequisite: Admissions into the Honors Program.

IDH 1930 Honors Readings  1 credits
Each semester, we will discuss 3 books. Groups comprised of no more than 4 students per faculty will meet at a mutually acceptable time. The three books will have a common theme and the theme will lend itself to an interdisciplinary approach. Ideally, the books will be a mix of fiction and nonfiction. In these small groups, the students will have the chance to freely express their thoughts. They will also have the opportunity to develop a close association with dedicated faculty members, which is one of the foundations of our Honors Program. At the end of the semester, we hope to get the students and faculty together with one of the authors of the books for a discussion of the ideas and themes discussed over the semester. To take the course, students must be in the University Honors Program, or must have a cumulative GPA of a least 3.5, or by permission of the instructor. ~ May be repeated for credit up to four times when topics vary.

IDH 2002 Honors Connections  2 credits
Explores the role of the active relationship of the self to content, context, and to other people. Students are encouraged to explore the diverse and connected knowledge of how we get to be who, what, and where we are as humans. Students are asked to see the connections among the ideas they encountered in the general education course they took and to see how this work lays the foundation for the continuation of their intellectual journey.
Prerequisites: IDS 1301L OR IDH 1001

IDH 2931 Honors Humanities Seminar  3 credits
An honors special topics course examining objects of culture using the methods of the Humanities. Topic selection will be within the broad framework of communication, culture, the arts, letters, popular culture, concepts, or the life of the mind. ~ This class meets both the Gordon Writing Rule and General Education Humanities criteria.

IDH 3910 Honors Directed Ind. Research  1 to 3 credits
Directed, independent research under a faculty member on a topic related to the student's main area of academic or professional inquiry. Must be an honors student in good standing.

IDH 4638C Honors Service  1 to 3 credits
Courses with large service learning and service team components. May be repeated when topics vary. Must be an active member of the FGCU Honors Program.

IDH 4945 Honors in Washington  3 to 6 credits
Honors in Washington provides academic credit for student internship experiences arranged through the Washington Center, in Washington, D.C. Students develop a portfolio of their internship experience. The composition of the portfolio and the criteria for grading it are determined by FGCU faculty. FGCU faculty also grade the portfolio. Second semester sophomore standing required to participate in program.

IDH 4975 Honors Thesis  1 to 3 credits
Honors students working to complete an Honors Thesis can register for 1-3 credit hours. May be repeated once. Must be an active member of the FGCU Honors Program.

IDS 1301L Styles & Ways of Learning  1 credits
Introduction to the interdisciplinary and multidisciplinary nature of the curriculum in the General Education program at Florida Gulf Coast University. A mechanism for establishing a shared understanding of the mission of the university and the intention of and approaches to the curriculum. Provides students with training in the basic skills necessary to perform well in the university setting (e.g., time management, intergroup skills, facilitative and interactive learning, effective utilization of technology). Required of all entering freshmen. The students will gain insight into various
IDS 1356 Applied Critical Thinking 3 credits
Interdisciplinary approach to critical thinking about ecological issues from a variety of social science perspectives. Students explore ecological issues, frame problems, construct cogent arguments, articulate reasoned judgments, and critically compare different points of view.

IDS 2110 Connections 2 credits
Capstone interdisciplinary experience for general education. Summarizes major points in the bodies of knowledge acquired while participating in the General Education Program; illustrates the integration of the Program; and provides opportunities for the students to utilize the knowledge and skills gained from the General Education experience in an applied manner. Involves research, application of theoretical models, and utilization of learned skills.
Prerequisites: IDS 1301L for level UG with min. grade of C- OR SLS 1501 for level UG with min. grade of C- OR IDH 2002 for level UG with min. grade of C- OR IDH 1001 for level UG with min. grade of C-

IDS 2930 Selected Topics 1 credits
Exploration of selected topics in interdisciplinary studies.

IDS 3197 Reflecting on the Holocaust 3 credits
Explores the impact of the Holocaust on a variety of aspects of world culture, possibly including literature, art, philosophy political theory, and/or religious reflection.

IDS 3300 Foundations of CivicEngagement 3 credits
Introductory course for the Collegium of Interdisciplinary Learning that teaches civic engagement through: ethical responsibility, ecological and culturally diverse perspectives and community awareness.
Prerequisites: ENC 1102 for level UG with min. grade of C

IDS 3301 Issues in Culture & Society 3 credits
Examines selected contemporary cultural/social issue and problems and their intellectual histories through a variety of interdisciplinary perspectives and methods. Stresses critical, creative, and collaborative thinking and application of communication, information, and technological skills.
Prerequisites: IDS 3300 for level UG with min. grade of C

IDS 3302 Issues in Politics & Economics 3 credits
Examines selected contemporary political/economic issues and problems and their intellectual histories through a variety of interdisciplinary perspectives and methods. Stresses critical, creative, and collaborative thinking and application of communication, information, and technological skills.
Prerequisites: IDS 3300 for level UG with min. grade of C

IDS 3303 Issues in Science & Technology 3 credits
Examines selected contemporary science/technology issues and problems and their intellectual histories through a variety of interdisciplinary perspectives and methods. Stresses critical, creative, and collaborative thinking and application of communication, information, and technological skills.
Prerequisites: IDS 3300 for level UG with min. grade of C

IDS 3304 Issues in Ecology & Environ. 3 credits
Examines selected contemporary ecology/environmental issues and problems and their intellectual histories through a variety of interdisciplinary perspectives and methods. Stresses critical, creative, and collaborative thinking and application of communication, information, and technological skills.

IDS 3305 Issues in Media, Lit. & Arts 3 credits
Examines selected contemporary media, literature, and arts issues and problems and their intellectual histories through a variety of interdisciplinary perspectives and Stresses critical, creative, and collaborative thinking and methods. Application of communication, information, and technological skills.

IDS 3920 University Colloquium 3 credits
The University Colloquium brings together students from all five colleges in a series of interdisciplinary learning experiences. These experiences are designed to address the ecological perspective outcome in relations to other university outcomes and guiding principles. Critical thinking and communication skills will be enhanced through field trips, discussion, projects, and a journal to be maintained by each student. (Advisor approval needed for virtual sections only) (Gordon Rule)
Fee Required

IDS 4158 Southwest Florida Bioregion 3 credits
Designed to allow students from outside the College of Arts and Sciences to develop environmental literacy through an investigation of regional environmental issues and is intended to help students meet the university goal of developing an ecological perspective. The course content focuses on a systems perspective of our bioregion as we discuss historical, cultural, economic, and ecological factors that affect our ability to manage native ecosystems and natural resources sustainably.

IDS 4901 Directed Individual Study 1 to 6 credits
Supervised study or project in an approved interdisciplinary area of interest. Permission of instructor required.

IDS 4910 Integrated Core Senior Seminar 3 credits
Capstone experience for the Collegium of Integrated Learning. In conference with selected faculty, students will devise a senior project that will emphasize the use of synthesis thinking and skills. The project may be related to, or have grown out of, previous courses in the Collegium of Integrated Learning and/or be connected to the student's discipline. This course should be taken during the student's final semester after successful completion (C or better) of at least two Collegium courses numbered IDS 3300-3305.
Prerequisites: IDS 3300 for level UG with min. grade of C and (IDS 3301 for level UG with min. grade of C OR IDS 3303 for level UG with min. grade of C)

IHS 3101 Shaping Hlthcare in 21st Cent. 3 credits
Investigation of the interdisciplinary concepts of health and dynamics of healthcare delivery systems. Ethical, legal and social considerations for the 21st century healthcare practitioner are examined.
Fee Required

IHS 3112 Legal & Ethical Princ of HC 3 credits
A focus on the legal and ethical issues encountered in health services organizations as they relate to health care delivery.

IHS 3203 Mgmt. & Leadership in Hlthcare 3 credits
Interdisciplinary analysis of leadership and management concepts; managerial skills and techniques; fiscal responsibility; human resource development; outcomes assessment; building strategic
This interdisciplinary course examines the impact on families of working relationships with families. Perspective of families, and understand how to forge positive alliances in changing environments; and organizational ethics. Fee Required

IHS 4504 Research Methods in HealthCare 3 credits Introduces qualitative and quantitative methods of inquiry; critical evaluation of health research literature; ethical integrity issues in research; interdisciplinary proposal preparation for health care scholarship; and application of research findings in health profession's practice. Fee Required

IHS 4938 Senior Seminar 3 credits Course synthesizing career and life experiences across disciplines, via exploration of interdisciplinary issues and civic projects. Prerequisites: IHS 4504 and IHS 3101 and IHS 3203 Fee Required

IHS 5117 Global Persp of Health Policy 3 credits This interdisciplinary course examines health policies and perspectives globally, and the impact of health policy making in health care delivery systems nationally and internationally. Health policies in selected countries including the United States, Canada, Great Britain, Germany, and Sweden are compared and contrasted. care issues and their effects on health professions, The course evaluates health interdisciplinary health professions practices, and health services policies in the various selected countries. Special emphasis is placed on health policies from an economic; political, and social context internationally.

IHS 5508 Statistical Analysis for HP 3 credits This interdisciplinary courses introduces the student to selected statistical techniques and applications to the analysis and evaluation of health services delivery. The content includes descriptive and inferential statistics, probability theories, applied probability distributions, regression analysis, and selected nonparametric methods. Application of statistical methods, and techniques within the course and through for health services are integrated interdisciplinary student projects on such topics as total quality management and health services research areas, including outcomes assessment.

IHS 5600 Adv Ped:Children Birth-Sch Age 3 credits This interdisciplinary course explores the various dimensions of development of young children (prenatally through age five) within the context of family and culture. Special attention is given to the development of children from birth to three. The broad goal of the course is to understand the typical sequence of development, across domains, by age. The interrelated nature of development is emphasized throughout the course. The focus is on typical development, with special emphasis placed on the implications of risk conditions and atypical development for each of the developmental processes and sequences reviews. Attention is given to individual differences and variations in development.

IHS 5605 A Ped-Fam of Children w/Disab. 3 credits This interdisciplinary course examines the impact on families of individuals with disabilities and explores strategies for establishing partnerships with families while accomplishing family centered interventions. A family systems perspective is introduced and applied to understanding families of children with disabilities. Students are required to reflect on their own experiences as family members, challenge their own assumptions about families of children with disabilities, actively practice strategies that take the perspective of families, and understand how to forge positive working relationships with families.

IHS 6112 Legal & Ethic Asp Hlth Care 3 credits Focuses on the U.S. legal system, legal principles, ethical issues that affect health care services, and interdisciplinary health care practices. Students are introduced to legal aspects of health care at the federal, state, and local levels. Liability, legal and ethical issues encountered in health service organizations as they specifically relate to health care delivery, health professions education, research, client interactions, policy and ethical decision making are investigated. integrated within the course to enhance Projects and simulations are critical thinking, communication, ethical decision making, and to foster interdisciplinary approaches to addressing issues. Special Conditions: Admission into the College of Health Professions MS in Health Science and completion of the prerequisite course; or consent of the Department Chair.

IHS 6500 Research in Health Professions 3 credits Provides students with theories and principles of research designs and a broad conception of disciplined inquiry; and interdisciplinary team approaches to research in the health professions. It enables students to evaluate and apply various research designs, methods and techniques, and related statistical processes to research in the health professions and health services. Ethics and issues as related to research in the health professions are Students demonstrate synthesis of course content and emphasize. research skills through a research project. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of prerequisite course; or consent of the Department Chair. Prerequisites: IHS 5508

IHS 6506 Qualitative Research Hlth Care 3 credits Examination of qualitative methods and applications to health disciplines; basic skill development in data analysis; development and initiation of a naturalistic study that students may continue in subsequent research requirements.

IHS 6606 Ad Ped: Atyp Child with Disab. 3 credits This interdisciplinary course increases students' understanding of the complexity of early development and the influence of risk factors on development. Students gain knowledge of common disabling conditions, including their etiologies and potential effects on development. Ethical issues related to diagnosis and treatment decisions are emphasized. Students are engaged in a process of obtaining information and resources related to delayed or atypical development and outcomes in young children.

IHS 6607 Ad Ped:Team App Child with Dis 3 credits This interdisciplinary course examines the functions of teams in various early intervention and service delivery settings. Students become familiar with the roles of a variety of professionals in assessment, planning, intervention, service coordination, and interagency coordination. Developmental stages of teams, models of team processes, and the dynamics of team interaction are explored, including approaches to problem solving, decision making, communication and conflict resolution.

IHS 6939 Health Policy Capstone Seminar 3 credits This capstone course emphasizes the student's culmination of courses through demonstration of synthesis and evaluation of knowledge and experiences across disciplines via interdisciplinary and presentation of a health policy project. The course prepares students for their professional roles as interdisciplinary planners, change agents, educators, administrators and/or practitioners. Special Conditions: Admission into the College of Health
The prospectus of these traditions. Examination of major theoretical traditions of international development. An interdisciplinary approach is used in analyzing international relations, with a special emphasis upon sustainable patterns, food, energy and human resources, the structure of problems. The course content includes changing demographic Introduction to the realities of current global issues and political dynamics, and philosophical perspectives that can illuminate the emergence of societal conflicts and the prospects of their peaceful resolution.

Prerequisites: ENC 1102 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

INR 2005 Peace Conflict Public Sphere 3 credits
Interdisciplinary examination of the communicative practices, political dynamics, and philosophical perspectives that can illuminate the emergence of societal conflicts and the prospects of their peaceful resolution.

INR 2015 Global Studies 3 credits
Introduces the student to the realities of current global issues and problems. The course content includes changing demographic patterns, food, energy and human resources, the structure of international relations, with a special emphasis upon sustainable development. An interdisciplinary approach is used in analyzing the issues.

INR 3002 Theories of Intl Relations 3 credits
Examination of major theoretical traditions of international relations and interpretation of current international realities from the prospectus of these traditions.
Prerequisites: ENC 1102 for level UG with min. grade of C

INR 3084 International Terrorism 3 credits
A study of contemporary and historical terrorism is provided in this course. Topics include causes, types and implications of terrorism. An analyses of actual case studies is an intricate parts of this course.

INR 3955 Overseas Study 1 to 3 credits
This course is a program of individual or group research in a foreign country.

INR 4075 International Human Rights 3 credits
Examines international human rights issues and their impact on politics. Major topics include: international human rights organizations and legal conventions; ethical and political ambiguities in international human rights; conflicts between human rights, local culture, and economic globalization.
Prerequisites: ENC 1102 for level UG with min. grade of C

INR 4004 Intro to Indus/Organiz Psych 3 credits
Applications of psychological principles to industry. Topics include selection, training, job satisfaction, supervision and decision making.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

INR 4254 Africa in World Affairs 3 credits
This course examines the place and role of Africa in world affairs. It includes an analysis of post colonial Africa, the relations of African States with major World Powers, the UN and its agencies, and among themselves.

INR 4303 U.S. Foreign Policy 3 credits
Examination of U.S. foreign policy, including economic policy, counter-terrorism, national defense, U.S. diplomacy toward key countries and regions of the world, and the governmental machinery through which foreign policy is formulated and implemented.
Prerequisites: ENC 1102 for level UG with min. grade of C

INR 4703 International Political Econ 3 credits
Examines the major structures and key actors within the contemporary global economy. Topics include international monetary order, regional and multilateral trade regimes, international financial flows, the roles of multinational corporations, economic development strategies, and world cities. These topics will be investigated from a variety of theoretical perspectives (e.g., liberal, mercantilist, structuralist).
Prerequisites: ENC 1102

INR 4900 Directed Reading 1 to 3 credits
Under the guidance and supervision of an instructor, students develop a program of reading and possibly research which fits their individual interest, needs, or topic.
Prerequisites: SYG 2000 for level UG with min. grade of D

INR 4910 Directed Independent Study 1 to 3 credits
Provides an opportunity for students to engage in academic research that will facilitate their participation in Model United Nations conferences.
Prerequisites: INR 2015 for level UG with min. grade of C OR INR 3002 for level UG with min. grade of C

INR 4926 Model UN Practicum 3 credits
Enables students to engage in academic research that will facilitate their participation in Model United Nations conferences.
Prerequisites: INR 2015 for level UG with min. grade of C OR INR 3002 for level UG with min. grade of C

INR 4930 Special Topics Intl Relations 3 credits
Examination of a selected topic within international relations.
Topics may vary depending on instructor. Prerequisite: ENC 1102
Prerequisites: ENC 1102

INR 4931 Selected Topics 3 credits
As a telecourse, the content provides an overview of the Americas. It discusses the sociocultural, historical, economic, and political nature of the region.

ISC 1002C Systems of Physical Science 3 credits
Investigates physics and chemistry from a systems perspectives. Topics include physical and chemical fundamentals, such as atomic structure, interactions between matter and energy, electricity, changes of state, chemical reactions and the relation to organisms, environment and nature.

ISC 1004C Integrated Natural Sciences I 3 credits
Students will examine integrative concepts in biology, chemistry, geology and physics relative to the human organism. Topics include: human physiology, diet and nutrition, genetics, disease, neural systems and computer technologies, and environmental health risks. This course is inquiry based and fully integrated laboratory experiences which emphasize active learning strategies.

ISC 1005C Integrated Natural Sciences II 3 credits
Students will examine integrative concepts in biology, chemistry, geology and physics relative to the environment. Topics include: the atmospheric pollution, water pollution, sustainable agriculture, production of energy, and natural catastrophic events. This course is inquiry based and fully integrated with both laboratory and field experiences which emphasize active learning strategies.

ISC 1210C Integrated Science & Math I 4 credits
This course will develop fundamental ideas in science and
mathematics relative to earth systems from a qualitative and quantitative viewpoint. A variety of disciplines will be included in this development.

ISC 1211C Integrated Science & Math. I 4 credits
This course will develop fundamental ideas in science and mathematics relative to the human organism from a qualitative and quantitative viewpoint. A variety of disciplines will be included in this development.
Prerequisites: ISC 1210C for level UG with min. grade of C

ISC 2212C Integrated Science & Math. II 4 credits
This course will develop fundamental ideas in science and mathematics relative to technology from a qualitative and quantitative viewpoint. A variety of disciplines will be included in this development.
Prerequisites: ISC 1211C for level UG with min. grade of C

ISC 2213C Integrated Science & Math. III 4 credits
This course will develop fundamental ideas in science and mathematics relative to the regional environment from a qualitative and quantitative viewpoint. A variety of disciplines will be included in this development.
Prerequisites: ISC 2212C for level UG with min. grade of C

ISC 2930 Selected Topics 1 to 4 credits
Topics of current or special interest to students or faculty. Topics or focus vary depending on student/faculty interest.

ISC 3120 Scientific Process 3 credits
Introduction to the philosophy, methodology and ethics of scientific practice via classroom discussion and literature review. Focus on philosophical and practical differences between physical & historical science; hypothesis generation and testing; experimental design; construction of a research proposal; composition of a scientific paper; oral presentation; and critical review.
Prerequisites: OCE 3008C for level UG with min. grade of C OR BSC 1051C for level UG with min. grade of C OR PCB 3063C for level UG with min. grade of C OR PCB 3023C for level UG with min. grade of C OR (CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C) ) and (STA 2023 for level UG with min. grade of C OR STA 2037 for level UG with min. grade of C)

ISC 3145C Global Systems 3 credits
Interdisciplinary introduction to the dynamic and interactive process which shape our planet. Focus on the physical, biological, and chemical processes which have defined the composition of each of the four "spheres" of the planet (biosphere, hydrosphere, atmosphere, and lithosphere) throughout the earth's 4.5 billion years of history.
Prerequisites: (CHM 1046C for level UG with min. grade of C OR (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) ) and PHY 2054C for level UG with min. grade of C and (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) ) and (GLY 1010C for level UG with min. grade of C OR GLY 1000C for level UG with min. grade of C)

ISC 4131 Scientific Entrepreneurship 3 credits
This course addresses the nature of basic and applied research in biotechnology, how basic research and development drives the generation of Intellectual Property and how Intellectual Property can be commercialized.
Prerequisites: ISC 3120 OR ISC 3120C

ISC 4910 Sr.Proj Rsch Intrdisc Nat Sci 2 credits
Research projects designed to hone skills in applying research principles and obtaining practice in data collection and analysis, or certain aspects of research are carried out by one or more students under the supervision of a faculty member.

ISC 4911 Sr Proj Pres Intrdisc Nat Sci 2 credits
A continuation of the senior project, students will be expected to prepare and present a summary of their research. The presentation may be oral, written, multimedia, etc. Work will be completed with the faculty mentor.
Prerequisites: ISC 4910 for level UG with min. grade of C

ISC 4930 Current Top in Intl Nat Scienc 1 to 3 credits
Special or current topics in the interdisciplinary natural sciences. Students are encouraged to choose topic courses which are relevant to their prospective research thesis or internship. Students will receive a grade of Satisfactory "S" or Unsatisfactory "U".
Prerequisites: ISC 3120C for level UG with min. grade of C OR ISC 3120 for level UG with min. grade of C

ISC 4940 Internship in Interdis Nat Sci 2 to 4 credits
Supervised internship in a field or laboratory setting. A Satisfactory "S" or Unsatisfactory "U" grade will be assigned.
Prerequisites: CGS 1100

ISM 2940 Exploration of Info Technology 1 to 3 credits
This course prepares students as website developers who can create an attractive, socially, culturally sensitive site containing dynamic components as well as static components using an integrated tool with a database.
Prerequisites: CGS 1100

ISM 2051 Intro Website Development w/DB 3 credits
Overview of information technology, including flow and control of information in an organization and use in decision making. Focuses on information systems’ strategy case studies, current security issues, and technology platforms to prepare students to utilize IT for exploring opportunities and solving problems in a global business environment. (Junior standing required)
Prerequisites: CGS 1100 OR COP 1500

ISM 3011 Information Systems 3 credits
Overview of information systems technology, including flow and control of information in an organization and use in decision making. Focuses on information systems’ strategy case studies, current security issues, and technology platforms to prepare students to utilize IT for exploring opportunities and solving problems in a global business environment. (Junior standing required)
Prerequisites: CGS 1100 for level UG with min. grade of C OR COP 1500 for level UG with min. grade of C

ISM 3113 Systems Analysis & Design 3 credits
Systems concepts, structured methods, techniques, and computerized tools used in information systems analysis and design. Both procedural and object-oriented analysis design approaches are covered. Students will work on a real life projects to apply concepts and methods learned in class. (Fundamental computer programming knowledge required.)
Prerequisites: ISM 3212 for level UG with min. grade of C and COP 3003 for level UG with min. grade of C OR ISM 3232 for level UG with min. grade of C

ISM 3212 Database Concepts & Admin 3 credits
Principles of database administration. Information systems design
and implementation with database management systems. This course covers conceptual, logical, and physical design of database; SQL; differing models for databases (relational, hierarchical, various database administration issues; and network, and object oriented). Students will design and construct a physical database system to implement the logical design. Prerequisites: (COP 2006 for level UG with min. grade of C OR ISM 3230 for level UG with min. grade of C) and (ISM 3011 for level UG with min. grade of C OR CEN 3031 for level UG with min. grade of C)

ISM 3220 Data Communications 3 credits
Fundamentals of data communications based on the OSI reference model. Introduction to media, signaling, error control, protocols, and network operating systems. Local area networks are emphasized. Installation, configuration, troubleshooting and management of technologies are practiced in a project environment. Prerequisites: (COP 2006 for level UG with min. grade of C OR ISM 3230 for level UG with min. grade of C) and (ISM 3011 for level UG with min. grade of C OR CEN 3031 for level UG with min. grade of C)

ISM 3221 Data Communications II 3 credits
This course builds on the basic concepts of data communications, focusing on network planning, evaluation, and security. Prerequisites: ISM 3220

ISM 3230 Introduction Bus Programming 3 credits
Introduction to problem-solving and business application development. modern programming language. Students learn programming concepts in a Principles of programming style are emphasized. Projects programming constructs. Topics include user interfaces, file i/o, and basic and assignments cover business applications. Prerequisites: (CGS 1100 OR COP 1500) and (MAC 2233 OR MAC 2311)

ISM 3232 Intermediate Bus Programming 3 credits
Intermediate programming of business applications using a modern programming language. Topics include data structures, databases, web applications, Principles of programming style are and user interfaces. emphasized. Projects and assignments cover business applications. Prerequisites: ISM 3230 OR COP 2006
ISM 3238 Advanced Business Programming 3 credits
Advanced business application development, problem solving, and testing and maintenance using a modern programming language. Projects cover business applications. Prerequisites: COP 2001 OR ISM 3232
ISM 3400 Decision Support Tools 3 credits
This course prepares business students to be able to use a variety of tools and technologies used in business decision making in functional areas such as management, accounting, human resources, finance, and marketing. Those tools and technologies include data warehouse, OLAP, data mining, and visual presentations. Prerequisites: ISM 3011
ISM 4094 Enterprise Systems 3 credits
State of the art information technologies used by organizations to improve their products, operations and decision making in every aspect of their global collaborative value chains will be studied. Prerequisites: ISM 3011

ISM 4154 Systems Integrations Strategies 3 credits
This course prepares students so they can integrate cross-functional systems and analytical systems into an enterprise systems, as well as developing inter-organizational systems. Different approaches to systems integration, issues related to changes in business processes, and necessary technology components such as ERP, web services, EDI, API, XML, SOAP, and semantic webs will be covered. Prerequisites: ISM 3113 and ISM 3220
ISM 4243 Intro Computer Graphics Pgrm 3 credits
Students will learn how to create computer graphics programs in a modern object-oriented programming language. The basics of lighting, shapes, textures, transformations, and human interface design will be applied to the representation of data, virtual reality, and simple animations. Prerequisites: ISM 3232
ISM 4332 IS Project and QA 3 credits
Students will gain an understanding of the entire information system development process via team projects, including problem identification, analysis, design, implementation, estimation, resource allocation, scheduling, and quality assurance. Teams will design and develop a prototype system that satisfies the requirements of a "real" organization. Prerequisites: ISM 3113 for level UG with min. grade of C and ISM 3220 for level UG with min. grade of C
ISM 4905 Directed Independent Studies 1 to 3 credits
Independent studies as directed by designated faculty. Permission of the instructor and department chair required. Prerequisites: ISM 3113
ISM 4930 Topics in Computer Info Sys 3 credits
Selected topics in information systems. Prerequisites: CGS 1100 for level UG with min. grade of C
ISM 4941 Practicum in Computer Info Sys 3 credits
Joint faculty/industry directed remote and/or on-site course experience in information systems development. (Department approval required) (S/U only) Prerequisites: ISM 3113
ISM 5405 Business Intelligence 3 credits
Study of the use of analytical tools to transform operational data into complex and competitive information for decision makers. Topics will include data warehouse, data mining, and data cleansing. Prerequisites: ISM 6021 OR ISM 3011
ISM 5910 Directed Independent Studies 1 to 3 credits
Individual study and research under faculty direction. Topics vary and are usually selected on an individual basis. Detailed project and/or paper must be completed. (Permission of instructor and department required) Prerequisites: ISM 6021
ISM 5930 Topics in Computer Info Sys 3 credits
A comprehensive survey of selected contemporary issues and topics in information systems at the graduate level. Individual investigation and reporting emphasized in seminar fashion.
ISM 6021 Management Info Systems 3 credits
Introduces computer information systems technology (IT) principles, tools and strategies used to gain competitive advantage
in the marketplace. The emphasis is on addressing business problems in the "information-age" and communicating--in writing and with commonly used desktop software--the results of one's analysis of a business IT problem or situation. In addition, students will learn how to program and debug traditional and web-based applications.

Students will examine how technology shapes, and is shaped by business, social, legal, and political issues.

Prerequisites: ISM 6021 OR ISM 3011

ISM 6121 Info Requirements Analysis 3 credits
Study and application of systems development approaches. Covers structured methods, object-oriented analysis methods and other methods. Also covers computer aided system engineering tools. Students as a group will work on a real life project to apply concepts and methods they have learned.
Prerequisites: ISM 6021 OR ISM 3011

ISM 6122 Information Systems Design 3 credits
An in-depth study of the problem of determining an efficient design to meet the requirements specified by the user. The course will cover alternative designs of networks, databases, programs, and user interfaces. Both structured and object-oriented methodologies will be discussed.
Prerequisites: ISM 6121

ISM 6155 Enterprise Systems 3 credits
Strategies and technologies for the implementation of enterprise-wide computer information systems. Study of business processes and enterprise resource planning (ERP) systems for decision-making, process design, and control.
Prerequisites: ISM 6021 OR ISM 3011

ISM 6217 Data Management 3 credits
Advanced principles of database administration. Information system design and implementation in a database environment. Topics may include conceptual, logical, and physical design of databases; SQL; database administration, distribution, security, and recovery issues; and differing models for databases (relational, hierarchical, network, and object oriented). Students will design and construct a physical database system to implement the logical design.
Prerequisites: ISM 3212

ISM 6226 IT Infrastructures & Networks 3 credits
Telecommunications fundamentals including data, voice, image, and video. Major issues in the design, implementation, and management of networks. Issues related to the development of an integrated technical architecture to serve organizational needs in a rapidly changing competitive and technological environment.
Prerequisites: (ISM 6201 OR ISM 3011) and (ISM 3230 OR COP 2006)

ISM 6239 Adv Application Development 3 credits
Application of object oriented programming for business. Students will learn how to program and debug traditional and web-based programs using a modern object-oriented language. Includes instruction in exception handling, graphic user interface (GUI) design, database access, networking and other advanced topics.

Prerequisites: ISM 3212 and ISM 3232 OR COP 3003

ISM 6316 Project Mgt &Quality Assurance 3 credits
The course introduces the use of scheduling, resource-allocation, and capacity planning in the design, development, and implementation of information systems and/or systems changes. The course covers state of the art models such as the Capability Maturity Model and the People Maturity Model developed at the Software Engineering Institute.
Prerequisites: ISM 6021 OR ISM 3011

ISM 6488 IT Function & Infrastructure 3 credits
This course focuses on the design and management of an overall system of three interacting subsystems: the enterprise itself, the IS function, and the IT architecture. The alignment of competitive strategy, core competencies, and information systems, as well as approaches to managing the IS function will be covered.
Prerequisites: ISM 6121 and ISM 6155 and ISM 6217 and ISM 6231

ISM 6946 Practicum in CIS 3 credits
An experiential learning exercise that allows for practical application of knowledge acquired in the classroom. S/U only.
(Permission of department required)
Prerequisites: ISM 6121

ISS 2011 Interdisciplinary Social Science 3 credits
Examination of current social science issues from an interdisciplinary perspective. Topic selection will be within the broad framework of political ideologies, social structures, manifestations technological changes, economic conditions, of culture and impacts on changing social patterns.

ISS 2200 Intro to International Studies 3 credits
Introduction to International Studies, the interdisciplinary nature of International Studies, the basic theoretical perspectives used in analyses and the specific areas for concentrated research or further reading.

ISS 3010 Intro to Social Sciences 3 credits
Interdisciplinary examination of social institutions and social issues from the perspectives of the various social sciences. Emphasis on different approaches to the analysis of issues, strategies for addressing needs relating to those issues, and relationships among the disciplines.

ISS 3930 Selected Topics 3 credits
Topics of current interest to students and faculty in the field of interdisciplinary social sciences.

ISS 4910 Directed Independent Research 1 to 3 credits
Supervised research in areas of special interest. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting.

ISS 4934 Program Evaluation 3 credits
Develops students' knowledge base and skills in program evaluation. Students study the theoretical bases for evaluation, examine the types of program evaluation and apply them in field assignments and case studies.

ISS 4935 Sr. Seminar in Soc. Sciences 3 credits
Capstone experience integrating the various paradigms explored in other courses. Focus on a topic of interest.
ISS 4940 Interdisciplinary Practicum 3 credits
Practical application of knowledge and skills in the classroom in supervised field settings. Hours may vary and are based upon the nature of the practicum.

ISS 4955 Study Abroad 3 credits
This course provides the student with a practical application of knowledge in a real setting.

JOU 3101 Journalism 3 credits
An overview of topics including news gathering techniques, investigative reporting, story construction, and press law and ethics. This writing workshop allows students to experience newspaper reporting firsthand, testing concepts in journalism by producing articles for the university community.

LAE 3334 Reading & Writing Content Area 4 credits
Prepares secondary teacher trainees to integrate reading and writing into their content classrooms in order to improve learning.

LAE 4314 Language Arts in Child. Educ. 3 credits
Implements a coordinated and integrated language arts curriculum and guides the developmental language experiences of children in elementary school. Explores the content, organization, and instruction of oral and written expression in childhood education.

LAE 4323 Methods of Teach Eng. Middle 3 credits
Methods of integrating reading, writing, speaking, listening, viewing and critical thinking activities into a literature-based program for middle school students. Must be taken one or two semesters prior to internship. Includes school-based practicum. Includes strategies for working with lower-level readers.

LAE 4335 Lang Arts Methods 6-12 3 credits
Methods of instruction for middle and high school language arts and English teaching. Knowledge of state curriculum standards and assessment methods. Emphasis on integrating skills with literature-based programs at middle and high school level. Includes strategies for working with lower-level readers.

LAE 4414 Lit. in Childhood Education 3 credits
Selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education. Addresses the literature and writing component of the liberal arts exit requirements and the following skills and dimensions: analytical thinking, writing skills, oral expression, race and ethnicity, and gender.

LAE 4416 Children's Literature 3 credits
The selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education. Included in this course are analytical thinking, writing skills, oral expression as they are applied to the study of children's literature.

LAE 4464 Adolescent Literature 3 credits
Study of the types of literature read by adolescents. Emphasis on criteria for selection of literature and teaching materials for middle and high school teaching. Correlation of literature-based materials with state curriculum standards and assessment procedures.

LAE 4936 Senior Seminar: Eng. Ed. 2 to 3 credits
Senior standing, Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

LAE 4940 Internship in English Ed 9 credits
One full semester of internship in a public or private school. Intern takes Senior Seminar in English concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9-12 semester hours. (S/U only)

LAE 4941 Methods of Teach Eng: Pract 3 credits
Taken one semester prior to internship. Required concurrently with LAE 4335 or LAE 4325.

LAE 5295 Writing Workshop I 3 credits
Students will engage in exploration and practice of effective writing strategies. Will include teaching strategies demonstrations. Permission of Instructor only.

LAE 5816 Trends in Lit Diverse Society 3 credits
Nature, scope, and uses of literature for instructional, informational, and recreational purposes and implications of current theory, significant research, and issues in literature study as they relate to diverse learners.

LAE 6301 Language Learning in Childhood 3 credits
Research used to assess the language behavior of normal children and application of selected research methodology to understand linguistic behavior of children.

LAE 6315 Teaching Writers and Writing 3 credits
Methods of teaching writing as part of the language arts curriculum. Development of writing as a process and product instructional strategies, functions of writing, conventions of writing in the K-12 curriculum.

LAE 6325 Lang Arts Meth: 6-12 3 credits
Review of contemporary approaches to instruction in literature, language and language development, oral and written composition, corrective and developmental reading, and study skills. All components will be considered in the context of adolescent learning characteristics. Correlation of methods and materials with state and national curriculum standards and assessment procedures with special attention to Sunshine State and Goal Three Standards.

LAE 6326 Lang Arts Methods: High School 3 credits
Review of contemporary approaches to instruction in young adult literature, language and language development, oral and written composition, corrective and developmental reading, and study skills. All components will be considered in light of older adolescent learning characteristics.

LAE 6337 Reading & Writ in Content Area 3 credits
Integration of listening, speaking, reading and across the curriculum and reading in the content writing into content classrooms using language area methods to improve classroom learning across the disciplines. Correlation of methods and materials with state and national curriculum standards and assessment procedures with special attention to Sunshine State and Goal Three Standards.

LAE 6339 Lang Arts Methods: High School 3 credits
Review of contemporary approaches to instruction in young adult literature, language and language development, oral and written composition, corrective and developmental reading, and study skills. All components will be considered in light of older adolescent learning characteristics.
LAH 3470 History of the Caribbean 3 credits
Survey of the thematic factors that have shaped life in the Caribbean region from pre-Columbian time to the present. Particular concern will be given to the racial and ethnic concerns that have affected the identities of various peoples of this distinct region of Latin America.

LAH 3724 Race in Latin America 3 credits
An in-depth examination of the role race and ethnicity have played in the formation of modern Latin American societies, in particular their intersection with ideas of nation, class and gender, from the colonial period to the present.

LAH 3732 Popular Culture Latin America 3 credits
An exploration of the role of popular culture in Latin American and Caribbean history. Themes discussed will include food, sport, carnival, music, dance, poetry and religious worship and iconography and their incorporation into national, racial and gendered identities throughout the region.

LAH 3130 Colonial Latin America 3 credits
The history of Latin America from the rise of the Inca and Aztec Empires in the 15th century to independence. Deals with the cultural, demographic and material impact of conquest, and the economic, social and political dynamics of colonial society.

LAH 3200 Modern Latin America 3 credits
The history of Latin America from independence to the present. Deals in depth with post-colonial political, social, economic, racial and religious tensions and struggles in Mexico, Central America, the Andes and the Southern Cone.

LAH 3730 History of Mexico 3 credits
Survey of Mexican history from Pre-Columbian time to the present, with emphasis on the rich cultural heritage of its people and the economic, social, political, and religious forces that have shaped its history.

LAH 3606 Modern Latin America 3 credits
The history of Latin America from independence to the present. Deals in depth with post-colonial political, social, economic, racial and religious tensions and struggles in Mexico, Central America, the Andes and the Southern Cone.

LAH 3137 Colonial Latin America 3 credits
The history of Latin America from the rise of the Inca and Aztec Empires in the 15th century to independence. Deals with the cultural, demographic and material impact of conquest, and the economic, social and political dynamics of colonial society.

LAH 3130 Colonial Latin America 3 credits
The history of Latin America from the rise of the Inca and Aztec Empires in the 15th century to independence. Deals with the cultural, demographic and material impact of conquest, and the economic, social and political dynamics of colonial society.

LAH 3130 Colonial Latin America 3 credits
Examines the indigenous populations of The Americas and the creation of Spanish and Portuguese colonial empires in this region from the late 15th century through the rise of independent states (1830s). Discusses pre-Columbian cultural forms and their impact on the blending of cultures in The Americas.

LAH 3200 Modern Latin America 3 credits
Examines the development of The Americas since the rise of independent states in the early 19th century through the 20th century. Special attention is given to the cross-cultural character of the region and the placing of Latin American works of art and literature into a cultural context.

LAH 3730 History of Mexico 3 credits
Overview of Latin American social structure and factors which support or impede social change, collaboration and cultural maintenance. At least 6,000 words of graded written work are required (Gordon Rule).

LAH 3004 The Americas-Lat Amer & Carib 3 credits
This is a telecourse designed to introduce the complexities of Latin American and the Caribbean to students. Through an interdisciplinary approach to analysis, the course examines the cultural, historical, social, political and economic dynamics of the region.

LAH 3007 Latin American Environments 3 credits
The natural environments of Latin America and critical environmental issues are examined within their ecological, cultural, economic, and historical contexts. Multiple sources of information including scientific data and artistic impression are utilized. Prerequisites: BSC 1051C OR IDS 3304
LAS 3022 Caribbean Environments 3 credits
The natural environments of the Caribbean Basin and critical environmental issues are examined within their ecological, cultural, economic, and historical contexts. Multiple sources of information including scientific data and artistic impression are utilized.
Prerequisites: BSC 1051C for level UG with min. grade of C or IDS 3304 for level UG with min. grade of C

LAS 4932 Selc Topic in Caribbean Studies 3 credits
Selected issues, scholarly works, themes or movements relating to some aspect of Caribbean culture and society.

LEI 3703 Foundations of Therapeutic Rec 3 credits
An overview of therapeutic recreation and its concepts, practices, and service models and settings. Permission of the instructor is required.

LEI 4706 Conceptual Issues in TR 3 credits
Professional issues, accreditation, certification, third party reimbursement, and ethical concerns of the recreation therapist in practice.
Prerequisites: LEI 3703
Corequisites: LEI 4719

LEI 4709 Facilitation Techniques in TR 3 credits
Study of the methods used for facilitation of innovative therapeutic recreation interventions with a variety of special populations in a variety of health care settings.
Prerequisites: LEI 4713

LEI 4711 Program Devt & Eval. in TR 3 credits
Study of systematic program design and evaluation techniques for recreation therapy specialists.
Prerequisites: LEI 3703
Corequisites: LEI 4719

LEI 4713 Principles and Practices in TR 3 credits
Basic concepts, methods, processes, and techniques associated with practice of therapeutic recreation in settings offering medical, rehabilitation, and long term care services.
Prerequisites: LEI 3703 (may be taken concurrently)

LEI 4718 Assessment & Documentation TR 3 credits
Study and implementation of Therapeutic Recreation assessment and documentation techniques in a variety of health care settings.
Prerequisites: LEI 4713

LEI 4905 Directed Study in TR 1 to 6 credits
Supervised study of a therapeutic recreation topic. Content is selected by students in conjunction with their course director.
Prerequisites: LEI 4711 and LEI 4814

LEI 4930 Topics in TR 1 to 6 credits
Current concept, selected problem, or issue in therapeutic recreation is examined. The topic covered varies according to recent developments in therapeutic recreation. The course may be repeated for different topic areas.

LEI 4940 RT Clinical 1 to 3 credits
The professional eligibility requirements for the Equivalency Path B to professional certification allows for completion of therapeutic recreation coursework along with one year of full-time paid work experience with clinical supervision by a certified therapeutic recreation specialist (CTRS). This course will provide clinical supervision for recreational therapy by a certified therapist.
Prerequisites: LEI 3703 (may be taken concurrently)

LIN 3010 Introduction to Linguistics 3 credits
An introduction to the methods and findings of the core areas of linguistic research; pronunciation, word formation, grammar, and dialect; and also to selected broader concerns, such as dialects, language learning, or computer language processing.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

LIN 4671 Traditional English Grammar 3 credits
Detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English Grammar.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

LIN 4680 Structure of American English 3 credits
Survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

LIN 5010 Applied Linguistics & 2nd Lang 3 credits
An introduction to the methods and findings of the core areas of linguistic research; pronunciation, word formation, grammar, and the application of new knowledge generated by the research community to our work as language teaching professionals when working with English language learners (ELL).

LIT 2000 Introduction to Literature 3 credits
Survey of a variety of literary modes and genres from different cultures and time periods. At least 6,000 words of graded written work are required (Gordon Rule).
Prerequisites: ENC 1101 for level UG with min. grade of C

LIT 2110 Intro to World Lit & Culture I 3 credits
Survey of World Literature from Ancient and Classical times through the Renaissance. Centers on both canonical and marginal texts in their cultural and historical contexts.

LIT 2120 Intro to World Lit & Cultur II 3 credits
Survey of World Literature from the seventeenth century to the present. Centers on both canonical and marginal texts in their cultural and historical contexts.

LIT 3144 Modern European Novel 3 credits
Readings course on the Modern European Novel in translation as it developed from the nineteenth century to WW II.

LIT 3301 Cultural Studies/Popular Arts 3 credits
Twentieth-century popular culture as represented in film, fiction, music, and television.

LIT 3400 Interdisciplinary Topics 3 credits
Interdisciplinary readings course on the relationship between literature and the other creative arts, the other humanistic disciplines, and/or the sciences and technology.

LIT 3411 Literature and Religion 3 credits
Explores religious practices, ideas, images, and experiences expressed in contemporary and classical world literatures and cultures.
LIT 3662 Lit of Conquest & Exploration 3 credits
This readings course examines journals, letters, narratives, memoirs which document early European contact with the landscape and inhabitants of the Americas. Students focus on texts that predate the English settlements to consider such diverse figures as Columbus, Cabeza de Vaca, de Champlain, and Menendez de Aviles.

LIT 4061 Comparative Literature 3 credits
A comparison of literary works, themes, or practices from more than one culture or region. This comparison may be made in the framework of a literary genre, a period in literary history, or dominant themes and motifs. Individual to integrate literary production with Individual instructors may choose other cross-cultural phenomena, such as historical changes and social movements as expressed through narratives in various contexts. Prerequisites: ENG 3014

LIT 4093 Contemporary Literature 3 credits
Seminar centering on examination of a variety of international literary works written after 1945 in their social, cultural, and political contexts. Prerequisites: ENG 3014

LIT 4192 Caribbean Literature 3 credits
This seminar explores Caribbean poetry and fiction in the context of post-Negritude struggles for collective and individual identity. This course examines works by major authors from the Caribbean and Caribbean diaspora. Prerequisites: ENG 3014

LIT 4213 Literary Theory 3 credits
This is a seminar in literary criticism from Aristotle to the present. The course focuses on the relationship between literary theory and "real life" politics, philosophy, religious studies, and assumptions about nature of "knowledge." Prerequisites: ENG 3014

LIT 4353 Ethnic Studies 3 credits
Seminar examining the political, cultural, and social significance of ethnic identity within a variety of contexts. Focus on problematical and relative nature of the term "ethnic" to consider variable topics and issues. Prerequisites: ENG 3014

LIT 4355 African & Diaspora Literature 3 credits
This seminar examines the African diaspora from the period of decolonization (1960s) to the present. The course considers major issues (neocolonialism and postcolonialism, black nationalism, identity politics and conflicts, racism, and cultural imperialism) as expressed in selected texts and contexts. Readings span a generation of Black writers from such diverse regions as Africa, the Caribbean, and the American South. Prerequisites: ENG 3014

LIT 4404 Interdisciplinary Literature 3 credits
Seminar examining the literature of a specific discipline or across disciplines. Prerequisites: ENG 3014

LIT 4411 Environmental Philosophy 3 credits
Seminar on literature concerned with a philosophical approach to exploring the natural environment.

LIT 4434 Environmental Literature 3 credits
Seminar on literature concerned with the natural environment. Prerequisites: ENG 3014

LIT 4493 Politics and Literature 3 credits
Examining the relationship between literature and politics within a variety of historical and geographical contexts. Prerequisites: ENG 3014

LIT 4663 Magical Realism 3 credits
This seminar examines the formal and thematic characteristics that distinguish Magical Realist writing. The course begins by considering some of the major authors of the Boom period (1960s) in Latin American literature, such as Alejo Carpentier, Julio Cortazar, and Gabriel Garcia Marquez. The course then considers several post-Boom or "second generation" writers such as Isabel Allende, Luisa Valenzuela, and Laura Esquivel. Prerequisites: ENG 3014

LIT 4664 Literature of the Americas 3 credits
This seminar centers a comparative study of major contemporary authors from North, Central, Students explore literary techniques, contextual influences and South America, and points of convergence and divergence in the works. Prerequisites: ENG 3014

LIT 4853 Topics in Cultural Critique 3 credits
Seminar examining critical perspectives offered and applied in literary, film, media, and culture criticism. Prerequisites: ENG 3014

LIT 4930 Sel Topics in Lit Studies 3 credits
Topics of special or current interest. May be repeated change of topic. Prerequisites: ENG 3014

LIT 4931 The Exile in Literature 3 credits
Seminar concerning the exile in literature. Prerequisites: ENG 3014

LIT 4932 ST: Literature & Humanities 3 credits
Examines topics in the study of literature as they relate to the humanities at large or other disciplines in the humanities. Topics vary. May be repeated once for credit. Prerequisites: ENC 1101 and ENC 1102 and ENG 3014

LIT 6066 Studies in Comparative Lit. 3 credits
A examination of literary and non-literary texts from throughout the world with a focus on the comparative impact of culture. Specific topics and texts will vary each semester.

LIT 6096 Contemporary Literature 3 credits
An examination of post-WWII literature and culture.

LIT 6406 Interdisciplinary Literature 3 credits
An examination of the interrelationships between literature and other disciplines or fields.

LIT 6436 Environmental Literature 3 credits
Explores the philosophical foundations of environmental attitudes through the study of British and U.S. literature.

LIT 6806 Literature as Cultural Study 3 credits
An examination of culture and its products through a variety of theoretical perspectives. Course may be repeated once with a
change in content.

LIT 6907 Directed Individual Study 3 credits
Individual Study in literary studies by graduate students under the direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

LIT 6910 Directed Research 3 credits
Supervised research in preparation for writing a thesis on a topic in interdisciplinary literature or multicultural literature. Approval of the coordinator of graduate studies required.

LIT 6930 Special Topics 3 credits
Focused study of a specific topic or issue in literature and culture. Course may be repeated once with a change in content.

MAA 4211 Vector Analysis 3 credits
Differential and integral calculus of vector fields. Topics include vector fields, total derivative of a vector field, Taylor series, linearity of divergence and curl, and the transport theorem, line and surface integrals, Green's, Gauss' and Stokes' theorems, differential forms, Navier-Stokes equations, applications to fluid flows.
Prerequisites: MAC 3105 for level UG with min. grade of C

MAA 4226 Analysis I 3 credits
Rigorous development of the key concepts and theorems of differential calculus. Topics include sequences, series, limits, continuity, differentiability, properties of derivatives, and uniform notions of convergence and continuity.
Prerequisites: MAC 2313 for level UG with min. grade of C and MHF 2191 for level UG with min. grade of C

MAA 4227 Analysis II 3 credits
Rigorous development of the key concepts and theorems of integral calculus. Topics include the Riemann integral and its properties, a restatement of the key concepts of real analysis in the context of metric spaces and function spaces, and an introduction to measure theory and the Lebesgue integral.
Prerequisites: MAA 4226 for level UG with min. grade of C

MAA 4402 Complex Variables 3 credits
Introduction to the general theory of functions of one complex variable. Topics include algebra of complex numbers, analytic functions, Cauchy-Riemann equations, Taylor and Laurent series, line and contour integral, poles of functions, integration theorems, residues and the Residue Theorem, conformal mappings and Riemann surfaces, Riemann mapping theorem.
Prerequisites: MAA 2313 for level UG with min. grade of C and MAP 2302 for level UG with min. grade of C

MAC 1105 College Algebra 3 credits
General course in techniques of algebraic representation and solution of problems. Topics will include review of properties of exponents and radicals, functions and functional notation, symbolic, graphical, and numerical representation of functions and equations, polynomial, exponential and logarithmic functions, systems of equations and inequalities, matrix representation of linear systems, matrix methods for solving systems of equations.
*Meets Gordon Rule for Math
Prerequisites: MAT 1033 for level UG with min. grade of C OR STA 2023 for level UG with min. grade of C OR S02 for min. SCORE of 550 OR A02 for min. SCORE of 24 OR ACU4 for min. SCORE of 090
Corequisites: MAC1105L

MAC 1105L College Algebra - Lab 0 credits
Discussion and presentation of issues related to exponents and radicals, functions and functional notation, symbolic, graphical and numerical representation of functions and equations, polynomial, exponential and logarithmic functions, matrix representation of systems of linear equations and matrix methods for solving such systems.
Prerequisites: MAT 1033 for level UG with min. grade of C OR STA 2023 for level UG with min. grade of C OR S02 for min. SCORE of 550 OR A02 for min. SCORE of 24 OR ACU4 for min. SCORE of 090
Corequisites: MAC1105

MAC 1147 Precalculus 4 credits
Survey of the basic properties of classes of functions commonly used in applications. Topics may include polynomial, trigonometric, exponential, logarithmic, conic sections, matrices, mathematical induction, and polar coordinates. *Meets Gordon Rule for Math
Prerequisites: MAC 1105 for level UG with min. grade of C OR ACU5 for min. SCORE of 066

MAC 2157 Analytic Geom with Trig 3 credits
Introduction to the techniques of calculus of primary use to business students. Topics include: differentiation and integration of algebraic functions with applications, exponential and logarithmic functions with applications to finance and economics. This course is NOT equivalent to MAC 2311. *Meets Gordon Rule for Math
Prerequisites: MAC 1105 for level UG with min. grade of C OR ACU5 for min. SCORE of 066

MAC 2233 Elementary Calculus 3 credits
Introduction to the techniques of calculus of primary use to business students. Topics include: differentiation and integration of algebraic functions with applications, exponential and logarithmic functions with applications to finance and economics. This course is NOT equivalent to MAC 2311. *Meets Gordon Rule for Math
Prerequisites: MAC 1105 for level UG with min. grade of C OR ACU5 for min. SCORE of 066

MAC 2233L Elementary Calculus Lab 0 credits
Discussion and presentation of solutions to problems related to differentiation and integration of algebraic functions, exponential and logarithmic functions related to finance and economics.
Prerequisites: MAC 1105 for level UG with min. grade of C
Corequisites: MAC2233

MAC 2311 Calculus I 4 credits
Introduction to the primary concepts and techniques of differential and integral calculus. Topics include limits and continuity, the derivative, differentiation and integration of algebraic and trigonometric functions, linearity of functions, Mean Value theorem, antidifferentiation, extremum and curve sketching, and the definite integral, fundamental theorem. *Meets Gordon Rule for Math
Prerequisites: MAC 1147 for level UG with min. grade of C OR MAC 2157 for level UG with min. grade of C OR ACU5 for min. SCORE of 087

MAC 2312 Calculus II 4 credits
Continuation of MAC 2311. Topics include integration by substitution, inverse functions, exponential and logarithmic functions, inverse trig functions, solids of revolution,
arc length, techniques of integration, parametric curves and polar
coordinates, power series, Taylor's theorem. Emphasis on
conceptual understanding and modeling of physical phenomena.
*Meets Gordon Rule for Math
Prerequisites: MAC 2311 for level UG with min. grade of C

MAC 2313 Calculus III 4 credits
Continuation of MAC 2312. Topics include vectors in the plane
and 3-space, topics from plane and solid analytic geometry, curves
in space, tangential and normal acceleration, directional derivatives
and the gradient, tangent and normal to surfaces, extrema of
multivariable functions, Lagrange multipliers, double and triple
integrals, integration in cylindrical and spherical coordinates.
Emphasis on conceptual understanding and modeling of physical
phenomena. *Meets Gordon Rule for Math
Prerequisites: MAC 2312 for level UG with min. grade of C

MAC 2332 Integrated Math II 4 credits
Topics in this course include derivatives and antidifferentiables,
polar curves, position, velocity, and acceleration, kinematics,
slope fields, Euler's method, exponential growth and decay,
logarithms, optimization, integration by substitution, introduction
to differential equations, general theory of limits and L'Hopital's
Rule.
Prerequisites: MAC 2331 for level UG with min. grade of C

MAC 2333 Integrated Math III 4 credits
Topics in this course include integration by parts and partial
fraction decomposition, linear spaces and linear differential
equations, inverse trig functions and trig substitutions, numerical
integration, polar coordinates, power series, series solutions of
differential equations, line integrals and work, lengths of curves.
Prerequisites: MAC 2332 for level UG with min. grade of C

MAC 2334 Integrated Math IV 4 credits
Among the topics included in this course are curvature, tangent
and normal acceleration, functions of several variables, partial
derivativeation, Picard iteration, tangent plane and differentials,
quadric surfaces, quadratic forms, passing through functions of two
variables, multiple integrals, cylindrical and spherical coordinates,
and change of variable in multiple integrals.
Prerequisites: MAC 2333 for level UG with min. grade of C

MAC 2422 Calculus w/ Diff Equations II 4 credits
Continuation of MAC 2421. Topics include: tangent and normal
acceleration, curvature, areas and the Riemann integral,
Fundamental Theorem, inverse trig functions, techniques of
integration, solids and surfaces of revolution, line integrals, first-
order linear differential equations with applications, second-order
linear differential equations and harmonic motion, general theory of
limits and L'Hopital's Rule, Taylor series.
Prerequisites: MAC 2421 for level UG with min. grade of C

MAC 2423 Calculus w/ Diff Equations III 4 credits
This course is a continuation of MAC 2422. Topics include: polar
coordinates, theory of space curves, multivariable functions and
quadric surfaces, partial derivatives, existence-uniqueness theory
for DE, Picard iteration, gradient and directional derivative, tangent
plane and Taylor series, extrema of multivariable functions, double
and triple integrals, cylindrical and spherical coordinates.
Prerequisites: MAC 2422 for level UG with min. grade of C

MAD 3107 Discrete Mathematics 3 credits
Introduction to concepts of discrete mathematics, as used by
computer scientists. Topics include symbolic logic and Boolean
algebra, propositional and predicate calculus, sets, functions, and
relations, enumeration and counting principles, introduction to
trees, spanning trees, shortest path and matching
algorithms, finite state automata, Turing machines. *Meets Gordon
Rule for Math
Prerequisites: MAC 2312 for level UG with min. grade of C

MAD 4301 Graph Theory 3 credits
Introduction to the theory and applications of graphs. Topics
include definitions and basic properties, Euler and Hamilton
circuits and applications, connectivity, spanning trees and
enumeration problems, cycle space and application to networks,
matching algorithms and applications, shortest path problems,
planar graphs and dual graphs, coloring problems and algorithms
network flows, max flow-min cut theorem, Ramsey theory. *Meets
Gordon Rule for Math
Prerequisites: MIF 2191 for level UG with min. grade of C and
MAS 3105 for level UG with min. grade of C

MAD 4401 Numerical Analysis 3 credits
Introduction to basic concepts and methods of numerical
approximation, with emphasis on error estimates and computer
algorithms. Topics include numerical differentiation and
integration, solution of initial value problems, interpolation and
quadrature, numerical solution of algebraic and transcendental
equations, systems of equations, finite differences, introduction to
finite element methods. *Meets Gordon Rule for Math
Prerequisites: MAC 2313 for level UG with min. grade of C

MAD 4504 Theory of Computation 3 credits
Mathematical principles of the theory of computation and computer
science. Topics include finite and infinite state machines, regular
expressions and their recognition automata, pushdown automata,
Turing machines, grammars and parsing, recursive functions,
decidability and unsolvability, halting problem. *Meets Gordon
Rule for Math
Prerequisites: MIF 2191 for level UG with min. grade of C and
MAD 3107 for level UG with min. grade of C

MAE 4152 Math Methods 6-12 3 credits
Instructional strategies and materials that are vital elements of
the teacher's knowledge base for making curricular decisions. Survey
techniques and materials unique to math, grades 6-12.
Prerequisites: EDF 3201 for level UG with min. grade of C and
EDG 3201 for level UG with min. grade of C

MAE 4310 Math Content & Processes 3 credits
Philosophy, methods, and materials for teaching elementary school
mathematics. Emphasis on the use of hands on learning approach
using a constructivist approach.
Prerequisites: EDG 3201 for level UG with min. grade of C

MAE 4320 Teaching Math in Middle Grades 3 credits
Techniques and materials for instruction in middle grades
mathematics. Familiarity with state curriculum standards. A school
based practicum is required as part of this course.

MAE 4326 Teaching Elem School Math II 2 credits
Methods for teaching informal geometry, measurement,
probability, and statistics.

MAE 4330 Teach Senior H.S. Mathematics 3 credits
Techniques and materials of instruction for senior high school
mathematics. Applications of technology in mathematics.
Familiarity with state curriculum standards. Students will complete
30-hour practicum experience as part of course requirements.

MAE 4551  Reading Language of Math  2 credits
Reading and writing issues in the teaching of mathematics. Strategies for assisting students who do not possess appropriate reading and writing skills to master mathematics content. Topics may include determining readability, adjusting curriculum, assessing skills, solving verbal problems.

MAE 4936  Senior Seminar in Math Ed  2 to 3 credits
Synthesis of teacher candidate's courses in complete college program. Corequisites: MAE4940

MAE 4940  Internship: Mathematics Educ.  9 credits
One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates for 9-12 semester hours. (S/U only) Corequisites: MAE4936

MAE 4942  Integr Field Experience: Math  3 credits
Semester long internship to observe and demonstrate effective teaching practices. Student will partially assume teacher role in selected schools. Student will be in 2-3 settings for a total of 12 weeks. Part of the course experience will be a 2 week experience teaching second language learners. Prerequisites: EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C and RED 4350 for level UG with min. grade of C and TSL 4520 for level UG with min. grade of C and MAE 4152 for level UG with min. grade of C

MAE 6115  Trends in Math Instruction  3 credits
Students investigate the implications of current theory, significant research, and issues in the field of mathematics education as they relate to student learning and the recommendations of the National Council of Teachers of Mathematics.

MAE 6332  Math Methods: High School  3 credits
Methods of teaching mathematics in grades 9-12. Admission to the MAT program or permission of instructor required.

MAE 6336  Math Med: 6-12  3 credits
Methods of teaching mathematics middle school and senior high school, addressing strategies for teaching adolescents, curriculum adaptation for special needs students, adaptations for LEP learners, and current literature for teaching mathematics. Special emphasis on real world applications, state and national standards.

MAE 6927  Selected Topics in Tch Math  1 to 4 credits
Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic and the number of hours.

MAE 6945  Internship in Math, 6-12  6 credits
The M.A.T. program internship is an opportunity to integrate theoretical knowledge from previous education courses with classroom experience to demonstrate behaviors specified in the Educator Accomplished Practices and the Florida Performance Measurement System. Admission to the MAT program or permission of instructor required.

MAN 2062  Ethical Issues  3 credits
Study of the fundamentals of moral reasoning in a business context designed for business and non-business majors. Focus will be placed on the basic conceptual tools for ethical decision-making, recognition of situations which call for ethical decision-making, commonly used ethical theories and second level principles, and use of a decision procedure for applying ethical theories and principles in practical situations.

MAN 2931  Special Topics/Seminars  1 to 3 credits
Topics of interest to faculty and students.

MAN 3025  Contemporary Mgt Concepts  3 credits
Fundamentals of effective management from an organizational behavior perspective. Emphasis on tools and skills for understanding contemporary business activity in such areas as decision-making, planning, organizing, communicating, staffing, and controlling. Examines the role leadership plays in these areas. (Junior standing required)

MAN 3063  Organizational Ethics & Values  3 credits
Roles of personal, organizational, and societal values and ethics in society. Topics include exploration of individual ethics, values and goals; the study of ethical behavior within organizations, as it influences people, products, and the work environment; the exploration of the values, ethics, and beliefs upon which the free market system of production and exchange is built; and the exploration of individual roles as well as the appropriate roles of organizations and government in society.

MAN 3103  Foundations of Entrepreneurship  3 credits
Provides a broad overview of the principles, theories, and practice of entrepreneurship, together with an understanding of the key tasks, skills, and attitudes required. Opportunity recognition and evaluation is emphasized. Prerequisites: MAN 3025 (may be taken concurrently)

MAN 3301  Human Resource Management  3 credits
Provides a broad exposure to the policies, functions (such as recruitment, selection, compensation, and current issues involved in managing a firm's employees. evaluation, and development), The strategic role of HRM will be emphasized. Prerequisites: MAN 3025

MAN 3320  Employee Staffing  3 credits
Provides students with a detailed overview of the staffing activities performed by organizations. Examines selection from the process of determining what type of employees are needed by the organization, when they are needed, generating a pool of qualified candidates, selecting the "best" candidate, to making a successful offer. Also includes evaluation of an organization's staffing policies and practices. Prerequisites: MAN 3301

MAN 3322  Human Resource Info Systems  3 credits
Provides a broad overview of the importance and uses of HRIS in organizations to enable managers to make better use of human resources. Also provide a practical working knowledge of the use of HRIS for HR database planning, development, implementation, and evaluation. Prerequisites: MAN 3301 and ISM 3011

MAN 3350  Training & Development  3 credits
Provides the knowledge, skills, and ability for students to develop programs that train and develop employees to deal with global, technological, quality, and leadership challenges. Topics include assessing organizational training needs, clarify training objectives, selecting or developing training programs, and evaluating the
organizations, structural variation, leadership, motivation, and including behavioral effects of power and authority, formal
to improve an organization's problem-solving skills and its overall
Studies organization development as a process of planned change
MAN 4280 Org Development & Change 3 credits
Studies organization development as a process of planned change
to improve an organization's problem-solving skills and its overall
effectiveness within a changing and complex environment,
including behavioral effects of power and authority, formal
organizations, structural variation, leadership, motivation, and
organizational change.
Prerequisites: MAN 3025
MAN 4300 Management of Compensation 3 credits
Study of the evolution of innovative compensation policies aimed
at aligning individual and organizational performance with
competitive business strategies in domestic and global markets.
Relevant labor market pay practices and government policies such
as ERISA and COBRA are examined. Internal organization pay
policies, ESOPs, pay for performance incentive systems, and
various indirect compensation benefits are covered
Prerequisites: MAN 3301
MAN 4402 Employment Laws & Regs 3 credits
Focuses on federal and state laws and regulations that govern
employees in the workplace. Topics and issues discussed include
managing workforce diversity, EEO and immigration laws,
employee job rights, occupational safety, health and worker's
compensation, employee drug testing, right to privacy, labor laws,
and fair labor standards.
Prerequisites: MAN 3301
MAN 4530 Management of Technology 3 credits
The changing technical environment confronting managers in
corporate and nonprofit organizations. Focus on integration and the
management of new technical areas including flexible
manufacturing systems, new product development, computer
networks, and quality control issues.
Prerequisites: MAN 3025 and MAN 3504
MAN 4600 International Mgt and Culture 3 credits
A study of international management practices. Topics include an
introduction to international management and the multinational
enterprise, the cultural environment of international management,
planning in an international setting, organizing for international
operations, directing international operations, international staffing,
and the control process in an international context.
Prerequisites: MAN 3025
MAN 4625 Global Human Resource Mgt 3 credits
Provides an introductory knowledge and skill base in aspects of
global human resource management to assist with the effective
management of people in international settings. Focus given to
preparing employees for international assignments, international
training and compensation, and management from a distance,
among other international labor issues.
Prerequisites: MAN 3301
MAN 4802 Business Plan Development 3 credits
Hands-on business planning experience, with orientation to
computer research resources and business planning software
packages. Students develop business plans for an independent
startup or acquisition, resulting in professional quality written
business plans and oral business plan presentations.
Prerequisites: MAN 3103
MAN 4804 Entrepreneurial Field Studies 3 credits
Application of business and entrepreneurial concepts to field
experiences through implementation of a student-designed business
plan or collaboration with an entrepreneur on a specific, mutually
agreed upon project.
Prerequisites: MAN 3103
MAN 4905 Independent Study in Mgt 3 credits
Specialized independent study by students working one-on-one
with a faculty member. Topics vary and are usually determined by the student's and faculty member's needs and interests. (Senior standing and permission of department required.)
Prerequisites: MAN 3025

MAN 4930 Seminar in Management 1 to 3 credits
Exploration of specialized topics in management selected by instructor and department chair.

MAN 4933 Special Topics in OM 1 to 3 credits
Exploration of specialized topics in operations management selected by faculty. Prerequisites will vary by topic.

MAN 4941 Management Internship 3 credits
Opportunity to enhance and apply management skills and knowledge to a relevant profit or nonprofit organization to facilitate career planning and development. (Permission of department required) (S/U only)

MAN 5525 Total Quality Management 3 credits
A study of the total quality approach to management and its applications. The course focuses upon the goal of achieving customer satisfaction through the empowerment of employees to make continuous improvements in the organizational processes. Topics also include philosophies of total quality, the importance of interdisciplinary teams, benchmarking, and statistical process control.
Prerequisites: MAN 6501

MAN 5537 Management of Technology 3 credits
The changing technical environment confronting managers in corporate and nonprofit organizations. Focuses on the integration and management of new technical areas, including flexible manufacturing systems, new product development, computer networks, and quality control issues.
Prerequisites: MAN 6055 and MAN 6501

MAN 6055 Contemporary Mgt Concepts 3 credits
Fundamentals of effective management from an organizational behavior perspective. Emphasis on tools and skills for understanding contemporary business activity in such areas as decision-making, planning, organizing, communicating, staffing, and controlling. The role leadership plays in these areas will be examined. These concepts are applied to business, government, and not-for-profit organizations.

MAN 6149 Leadership & Group Dynamics 3 credits
Group theory, concepts, research, and application principles. Development of communication skills necessary for leading and working with interdisciplinary teams, benchmarking, and statistical process control.
Prerequisites: MAN 6055

MAN 6266 The Challenge of Leadership 3 credits
Engages students in a variety of activities designed to enhance their understanding of the challenges which confront today's business professionals. In addition to specific skill development in the areas of problem-solving, written and oral communications, leading teams, and goal setting, it will include models for examining personal career paths, ethical decision-making, and the role of organizational change-agents.

MAN 6289 Org Development & Change 3 credits
Studies organization development as a process of planned change to improve an organization's problem-solving skills and its overall effectiveness within a changing and complex environment, including behavioral effects of power and authority, formal organizations, structural variation, leadership, motivation, and organizational change.
Prerequisites: MAN 6505

MAN 6305 Human Resource Management 3 credits
Provides a broad exposure to the policies, functions (such as recruitment, selection, compensation, evaluation, and development), and current issues involved in the strategic role of HRM will be emphasized. Managing a firm's employees.
Prerequisites: MAN 6055

MAN 6321 Employee Staffing 3 credits
Provides students with a detailed overview of the staffing activities performed by organizations. Examines selection from the process of organization, when they are needed, generating a pool of qualified candidates, selecting the "best" candidate, to determining what type of employees are needed by the making a successful offer. Also includes evaluation of an organization's staffing policies and practices.
Prerequisites: MAN 6305

MAN 6331 Management of Compensation 3 credits
The evolution of innovative compensation policies aimed at aligning individual and organizational performance with competitive business strategies in domestic and global markets. Relevant labor market pay practices and government policies such as ERISA and COBRA, are examined. Internal organization pay policies, ESOP's, pay-for-performance incentive systems, and various indirect compensation benefits are covered.
Prerequisites: MAN 6305

MAN 6351 Training & Development 3 credits
Provides the knowledge, skills, and ability for students to develop programs that train and develop employees to deal with global, technological, quality, and leadership challenges. Topics include assessing organizational training needs, clarifying training objectives, selecting or develop training programs, and evaluating the outcomes of these programs. Focus will be on both current skills training and the development of employees for an on-going role within an organization.
Prerequisites: MAN 6305

MAN 6403 Employment Laws & Regulations 3 credits
Focuses on the federal and state laws and regulations that govern employees in the workplace. The issues and topics discussed include managing workplace diversity, EEO and immigration laws, employee job rights, occupational safety, health and worker's compensation, employee drug testing, right to privacy, labor laws, and fair labor standards.
Prerequisites: MAN 6305

MAN 6411 Labor-Management Relations 3 credits
A study of the historical, legal, social, and economic framework of both private and public sector labor relations in the US. The respective philosophy, objectives, and strategies for unions and management are examined, as is the key role of Federal agencies such as the National Labor Relations Board and the Federal Mediation and Conciliation Service.
Prerequisites: MAN 6305

MAN 6448 Conflict Management 3 credits
The causes of various forms of interpersonal, intra-group conflict and how to effectively manage conflict are the principle focus of
this course. Topics may include stakeholder analysis, political processes and power within the organization, competitive rivalry in domestic market places, integrative and distributive bargaining, and global the role of third-party neutrals in helping to resolve disputes.

**Prerequisites:** MAN 6055

**MAN 6501 Operations Management** 3 credits

Introduction to the fundamental concepts, processes and institutions involved in the production of goods and services required by modern society.

**Prerequisites:** QMB 6305

**MAN 6601 International Management** 3 credits

A study of characteristics of the international and multinational company, environmental constraints, human resources and labor relations factors, and strategic planning and policies from an international perspective.

**Prerequisites:** MAN 6055

**MAN 6607 Global Organization Issues** 3 credits

Addresses the cross-cultural skills necessary for managers in today's multinational and multicultural organizations. Examines culture-specific needs for leadership, communications and negotiations; and focuses on culture's impact on legal, ethical, diversity, and environmental issues.

**Prerequisites:** MAN 6055

**MAN 6805 Management of Small Business** 3 credits

Introduces students to the practical realities, transition points, issues, and dilemmas facing small to mid-sized businesses. Focuses on leadership, management, and decision-making processes necessary for long-term health and success in the small business arena.

**Prerequisites:** MAN 6055

**MAN 6806 Entrepreneurial Field Studies** 3 credits

A practical, experiential course that provides students opportunities to work in the field. Students apply concepts mastered in previous business and entrepreneurship courses either by implementing their own business plan or by working with an entrepreneur on a specific, mutually agreed upon project. Projects include analyzing problem areas and making recommendations for improvement, preparing pre-business feasibility studies, and creating comprehensive business plans.

**Prerequisites:** MAN 6055 and FIN 5405 and MAR 6815

**MAN 6808 Business Plan Development** 3 credits

Students develop business plans for an opportunities for an existing company, environmental constraints, human resources and labor relations factors, and strategic planning and policies from an international perspective.

**Prerequisites:** MAC 2312 for level UG with min. grade of C

**MAN 6901 Independent Study in Mgt** 1 to 3 credits

Individual study and research under faculty direction. Topics vary and are usually selected on an individual basis. Detailed project and/or paper must be completed. (Permission of instructor and department required)

**Prerequisites:** MAN 6055

**MAN 6930 Seminar in Management** 3 credits

A comprehensive survey of selected contemporary issues and topics in management at the graduate level. Individual investigation and reporting emphasized in seminar fashion.

**MAN 6932 Executive Seminar** 3 credits

Designed to strengthen students' appreciation for the challenges of leading cross-functional organizations. Classes will be interactive and make extensive use of case-based exercises focusing on actual organizational issues. (Executive MBAs only)

**Prerequisites:** ACG 6025 and ISM 6021 and MAN 6266 and QMB 6305 and MAN 6055 and ECO 5005

**MAN 6934 Special Topics in OM** 1 to 3 credits

Exploration of specialized topics in operations management selected by faculty. ~Prerequisites will vary by topic.

**MAN 6946 Management Internship** 3 credits

An experiential learning exercise that allows for practical application of knowledge acquired in the classroom. S/U only. (Permission of department required).

**MAP 2302 Differential Equations** 3 credits

An introduction to differential equations and their applications, based upon a knowledge of calculus. Topics to include: initial value problems of the first-order, numerical solutions, systems of differential equations, linear differential equations, Laplace transforms, series solutions.

**Prerequisites:** MAC 2312 for level UG with min. grade of C and (MAP 2302 for level UG with min. grade of C OR MAS 2121 for level UG with min. grade of C)

**MAP 3161 Math for Science & Engineering** 4 credits

Applications oriented development of vector and introductory tensor calculus, variational calculus, Laplace transforms, Fourier series and Fourier transforms. *Meets Gordon Rule for Math

**Prerequisites:** MAC 2313 for level UG with min. grade of C

**MAP 3162 Probability & Statistics** 4 credits

Introduction to mathematical statistics covering the main ideas and key theorems. Topics include enumeration, axiomatic development of probability theory, random variables, differential and cumulative probability distributions, moment generating functions, transformations of random variables, approximations to the binomial distribution, the Central Limit Theorem, hypothesis testing, point and interval estimation, and regression analysis.

*Meets Gordon Rule for Math

**Prerequisites:** MAC 2313 for level UG with min. grade of C

**MAP 3163 Operations Research I** 3 credits

Introduction to mathematical aspects of decision science and operations research. Topics include systems of inequalities and linear programming, simplex algorithm, sensitivity analysis, integer programming, branch and bound methods, graph and network models, network flows, duality theory, introduction to shortest paths, matchings, game theory. *Meets Gordon Rule for Math

**Prerequisites:** MAS 3105 for level UG with min. grade of C OR MAS 2121 for level UG with min. grade of C

**MAP 4101 Probab & Stochastic Processes** 3 credits

MAP 4101 covers fundamental notions of mathematical theory of probability and probabilistic modeling of random processes. Topics include: expectation, conditional probability and expectation, characteristic functions, central limit theorem, sums of random variables, laws of large numbers, random walks and Poisson processes, Brownian motion, Markov processes, introduction to queuing theory, applications. Students will be expected to develop and write computer simulations as part of the course.

**Prerequisites:** MAP 3162 for level UG with min. grade of C-
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 4231</td>
<td>Operations Research II</td>
<td>3 credits</td>
<td>Linear programming, linear program models of problems, integer programming, branch and bound methods, queuing, CPM and PERT, network flows, duality principles in modeling and problem solving, statistical models in OR. *Meets Gordon Rule for Math Prerequisites: MAP 3163 for level UG with min. grade of C</td>
</tr>
<tr>
<td>MAP 4314</td>
<td>Dynamical Systems</td>
<td>3 credits</td>
<td>Topics include discrete dynamical systems: fixed points and stability, bifurcations, classification of equilibria, self-similarity, fractals. Continuous dynamical systems: kneading, bifurcations, attractors, limit cycles and their classification, chaotic behavior. *Meets Gordon Rule for Math Prerequisites: MAP 3161 for level UG with min. grade of C</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>Introduction to Marketing</td>
<td>3 credits</td>
<td>The study of the nature of marketing systems and the marketing function within organizations. Emphasis on the identification and satisfaction of consumer needs in a dynamic market environment including focus on the marketing mix, marketing institutions, and marketing decision making environments. (Junior standing required)</td>
</tr>
<tr>
<td>MAR 3235</td>
<td>Interactive Marketing</td>
<td>3 credits</td>
<td>Study of the convergent use of traditional and alternative direct response marketing strategies and techniques in retail and business-to-business settings using all media. Emphasis on list selection, testing and management; segmentation, positioning and offer planning; offer execution and fulfillment; and measure response/profitability. Prerequisites: MAR 3023</td>
</tr>
<tr>
<td>MAR 3400</td>
<td>Professional Selling</td>
<td>3 credits</td>
<td>In-depth, experiential study of the entire relationship selling process in consumer and business-to-business selling environments, from prospecting to follow-up, using problem-solving selling strategies, practices and techniques. (Junior standing required)</td>
</tr>
<tr>
<td>MAR 3503</td>
<td>Consumer Behavior</td>
<td>3 credits</td>
<td>Study of the decision processes of individuals and groups toward consumer products and the implications of these processes for marketers. Emphasis on both individual, group, and external determinants of consumer attitude and behavior.</td>
</tr>
<tr>
<td>MAR 3613</td>
<td>Marketing Research</td>
<td>3 credits</td>
<td>User-oriented analysis of the marketing research process, including problem definition, proposal preparation, research design, sampling methods, data collection, data analysis, interpretation and presentation of findings.</td>
</tr>
<tr>
<td>MAR 4156</td>
<td>Global Marketing</td>
<td>3 credits</td>
<td>The application of marketing theories, principles and practices to the identification and satisfaction of the needs of consumers located in global communities. Focus on cross-cultural consumer behavior and communication, and legal processes.</td>
</tr>
<tr>
<td>MAR 4203</td>
<td>Supply Chain Marketing</td>
<td>3 credits</td>
<td>The management of traditional and emerging marketing channels emphasizing legal, economic, and ethical considerations in wholesale and retail inventory control, raw goods and finished product transportation, E-tailing, and relationship management.</td>
</tr>
<tr>
<td>MAR 4232</td>
<td>Retail Management</td>
<td>3 credits</td>
<td>A study of retailing structures, institutions, environments, and operations, including planning, merchandising and inventory management, product displays and promotions, store layouts and site selection, and the integration of E-tailing.</td>
</tr>
<tr>
<td>MAR 4310</td>
<td>Public Relations Management</td>
<td>3 credits</td>
<td>Managing relationships of firms/organizations with its customers and non-customer publics, the media, community, government, investors, intermediaries, and employees. Topics include ethics, public opinion, publicity, event planning, primary/secondary research, communication, writing for the media, and managing media relations. Prerequisites: ADV 3001 OR MAR 3023</td>
</tr>
<tr>
<td>MAR 4333</td>
<td>Integrated Mkt. Communications</td>
<td>3 credits</td>
<td>Team-oriented approach examines problems of developing a persuasive marketing strategy, promotional objectives, strategies and executions, including advertising, public relations, personal selling, sales promotion, direct marketing, and corporate communications. AAF/NSAC case study. Prerequisites: ADV 3001 for level UG with min. grade of C OR ADV 3101 for level UG with min. grade of C OR ADV 3300 for level UG with min. grade of C</td>
</tr>
<tr>
<td>MAR 4403</td>
<td>Sales Force Management</td>
<td>3 credits</td>
<td>Contemporary sales force management. Emphasis on sales force strategies, sales management responsibilities and skills including recruiting, selection and training issues, motivational factors, and determinants of sales force performance. Prerequisites: MAR 3023 and MAR 3400</td>
</tr>
<tr>
<td>MAR 4645</td>
<td>Marketing Technology</td>
<td>3 credits</td>
<td>In-depth study of the strategic and ethical use of databases and web-enabled technologies. Emphasis on offline/online marketing communications and applications that build and maintain customer, vendor and supplier relationships. Prerequisites: MAR 3023 and ISM 3011</td>
</tr>
<tr>
<td>MAR 4713</td>
<td>Hospitality/Tourism Marketing</td>
<td>3 credits</td>
<td>Focuses on marketing management tools and analysis for the hospitality services and tourism industries with an emphasis on strategic market research, planning, development, and evaluation.</td>
</tr>
<tr>
<td>MAR 4804</td>
<td>Market Strategy</td>
<td>3 credits</td>
<td>A capstone marketing course that utilizes case studies to simulate real-world business situations. The analyses provide guidance to students in developing analytical, decision-making and presentation skills. Prerequisites: MAR 3503 and MAR 3613</td>
</tr>
<tr>
<td>MAR 4841</td>
<td>Services Marketing</td>
<td>3 credits</td>
<td>The selection, development, execution, and measurement of marketing strategies in service organizations, including the strategic and tactical differences in the marketing of services from those methods used in traditional product marketing.</td>
</tr>
</tbody>
</table>
| MAR 4905   | Independent Study in Mkt          | 1 to 3 credits| Individual study and research with faculty direction and...
supervision. (Permissions of instructor and department required)

MAR 4930 Special Topics in Marketing 3 credits
Study of special, current, or emerging topics in marketing.
Prerequisites: MAR 3023 for level UG with min. grade of C

MAR 4944 Internship in Marketing 3 credits
Supervised work experiences in a marketing related capacity with nonprofit or profit organizations. Individual work must meet the College of Business and the Department of Marketing requirements to earn course credit. (Junior/Senior standing and permission of department required) (S/U only)

MAR 6158 International Marketing 3 credits
An advanced study of the process and problems associated with establishing and maintaining global marketing operations. Analytical tools available to global marketing managers will be emphasized to assess competitive alternatives to include justification of international Cross-cultural, legal, political, ethical and environmental factors are introduced to enhance trade, and the formulation of global marketing strategies. global marketing decision-making.

MAR 6216 Marketing Logistics 3 credits
Advanced study of the logistical process and its impact on finished goods, involving the handling and storage of raw materials and business strategy. Application of quantitative methods of interrelationships among the functional areas of business. Attention is given to the dynamic as they impact the flow of materials from producer to consumer. Issues are addressed relating to wholesale and retail inventory, warehousing, packaging, transportation and information processing techniques useful in establishing customer service levels.

MAR 6336 Marketing Communications Mgt 3 credits
Case study approach to understanding the role of promotion strategy in brand management and corporate communications, with a focus on research and evaluation and communications strategy development in a global environment.

MAR 6646 Advanced Marketing Research 3 credits
A study of the relationship between research methods and information systems in the context of marketing decision-making. Emphasis is placed on understanding the limits of research, and the managerial use of information. Advanced methods and techniques applicable to marketing problem-solving will include formulating marketing research issues, research design, data sources, data collection procedures, statistical analysis of qualitative and quantitative data, and report presentation. Attention is also given to defining information needs, determining the value of information for business decision-making, and social/ethical issues of marketing research.
Prerequisites: MAR 6815 and QMB 6305 and ISM 6021

MAR 6726 Marketing on the Internet 3 credits
Advanced analysis of the strategic and ethical use of the Internet for marketing communications and strategy in domestic and global entities. Topics center on using the Internet to maximize marketing promotions and customer experiences at all customer contact points.

MAR 6807 Adv Market Analysis & Strategy 3 credits
Advanced concepts and analysis with a strategic focus on developing marketing plans and programs for business and non-business opportunities while emphasizing applied marketing theories, technological tools, and decision-making processes.

MAR 6815 Marketing Management 3 credits
Explores managerial aspects of the marketing of goods and services in a global economy. Analysis of operational and strategic planning problems confronting marketing managers. Topics include consumer behavior, target market identification and selection, product development and commercialization, pricing, distribution. Introduces emerging marketing technologies, and reinforces the importance of ethics and social responsibility in the orderly operation of the market system.

MAR 6849 Services Marketing 3 credits
Focus on understanding the differences between the marketing of tangible and intangible products from both the consumer and provider perspective. Strategies and tactics useful in enhancing service firm competitiveness will be studied.

MAR 6904 Marketing Internship 3 credits
Experiential learning exercise that will enable students to apply marketing theory to real world situations. Students will gain marketing related knowledge and practical experience in a profit or not-for-profit organization. (S/U only. (Permission of department required)

MAR 6907 Independent Study in Mkt 1 to 3 credits
Individual study and research under faculty direction. Topics vary and are usually selected on an individual basis. Detailed project and/or paper must be completed. (Permission of instructor and department required)

MAR 6936 Special Topics in Marketing 3 credits
A comprehensive survey of selected contemporary issues and topics in marketing at the graduate level. Individual investigation and reporting emphasized in seminar fashion.

MAS 3105 Linear Algebra 3 credits
Introduction to the basic concepts and theorems of linear algebra. Topics include matrices and determinants, matrix operations and canonical factorizations, Gauss-Jordan elimination, vector spaces, linear transformations, basis, independence, orthogonalality, eigenvalues and eigenvectors, similarity, diagonalization, and an introduction to Markov chains. *Meets Gordon Rule for Math
Prerequisites: MAC 2313 for level UG with min. grade of C

MAS 4106 Matrix Analysis 3 credits
Topics include exponential matrices, unitary and positive-definite matrices, QR, polar, and singular value decompositions, matrix norms, perturbation methods for eigenvalues, numerical methods for matrix equations (with error analysis), weighted least squares, Kalman filtering, introduction to Hilbert space. *Meets Gordon Rule for Math
Prerequisites: MHF 2191 for level UG with min. grade of C and MAS 3105 for level UG with min. grade of C

MAS 4301 Abstract Algebra I 3 credits
Introduction to fundamental concepts of modern algebra. Topics
include group axioms, subgroups, Lagrange's Theorem, homomorphism, quotient groups, permutation and symmetry groups, rings, integral domains and fields, rings of polynomials, field of quotients. *Meets Gordon Rule for Math

Prerequisites: MHF 2191 for level UG with min. grade of C

MAS 4302 Abstract Algebra II 3 credits
Continuation of MAS 4301. Topics include subgroups and Sylow theorems, homomorphisms and quotient groups, ideals in rings, principal ideal domains and Euclidean domains, quotient rings, fields and extension fields. Emphasis is on skills and topics needed for graduate study in mathematics. *Meets Gordon Rule for Math

Prerequisites: MAS 4301 for level UG with min. grade of C

MAS 4730 Computational Technology 2 credits
Training in formulating and solving problems with the aid of a computer algebra system. A wide-ranging selection of exercises will be addressed with Maple 10 or a similar system. *Meets Gordon Rule for Math

Prerequisites: MAC 2312 for level UG with min. grade of C (may be taken concurrently)

MAS 5215 Number Theory 3 credits
Course will feature an accelerated review of elementary concepts in sufficient detail to support a more intensive study of the classical problems in algebraic number theory. Permission of instructor required.

MAT 1033 Intermediate Algebra 3 credits
Reinforcement and development of algebra skills needed for further study in mathematics. Topics include operations with polynomials and rational expressions, radicals, rational exponents, linear and quadratic equations, linear inequalities, systems of equations, functions, and applications. This course does not count toward completion of FGCU general education or Gordon Rule requirements.

Corequisites: MAT1033L

MAT 1033L Intermediate Algebra Lab 0 credits
Discussion and presentation of issues associated with differentiation and integration of algebraic functions, exponential and logarithmic functions related to finance and economics.

Corequisites: MAT1033

MAT 4906 Independent Study 1 to 4 credits
Individual study by a student under the direction of an instructor. Topics are selected on an individual basis, and cannot duplicate existing FGCU courses. Credit hours may vary. Students must obtain an access code from the instructor in order to register for the course.

MAT 4930 Special Topics 1 to 4 credits
Topics of current or special interest. Topics may vary according to interest and needs of instructor and students. Credit hours may vary. Prerequisites may vary depending on the content of the course; students must consult with instructor before registering.

MAT 4937 Senior Seminar 2 credits
Senior capstone course involving a variety of problem-solving activities and/or research projects to provide an integrative experience within the discipline. (Senior Standing)

MAT 4940 Internship 1 to 4 credits
MAT 4940 is a practical application of knowledge in an external setting. Credit hours may vary. Departmental approval required.

Grading criteria to be jointly determined by supervising faculty member and supervisor at place of employment.

MAT 5932 Special Topics Math 1 to 3 credits
Topics of current or special interest. Topics may vary according to interests and needs of students. May be repeated for credit if topics are substantially different from prior offerings. Permission of instructor required to enroll.

MCB 2010C Microbiology with Lab 4 credits
Students study the biology of microorganisms. Structure, physiology and ecology of bacteria, algae, viruses, protozoa and lower fungi will be investigated.

Prerequisites: BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C)

Fee Required

MCB 3020C General Microbiology 4 credits
A study of the structure, function and genetics of microorganisms, their relationships in natural and controlled environments emphasizing pathogenic bacteria and their hosts. Laboratory includes isolation, identification and culture techniques of microorganisms and their properties.

Prerequisites: (CHM 2210C for level UG with min. grade of C OR (CHM 2210 for level UG with min. grade of C and CHM 2210L for level UG with min. grade of C) ) and (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) )

MCB 3652C Environmental Microbiology 3 credits
Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments and the applied effects of microorganisms on the environment and on human activity, health, and welfare.

Prerequisites: (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) ) and (CHM 1045C for level UG with min. grade of C OR (CHM 1045 for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C) )

MCB 4023C Pathogenic Microbiology 3 credits
Biologic basis of infectious disease associated with human microbial infections. Topics include host-parasite relationships, virulence mechanisms and antimicrobial agents. Laboratories cover methods of isolation, detection, enumeration and identification of human pathogenic microorganisms.

Prerequisites: MCB 3020C OR MCB 2010C

MCB 4502 Virology 3 credits
Introduction to virology including nature, structure, and replication of bacterial, animal, and plant viruses and subviral particles and the molecular aspects of the viral life cycle that give rise to transmission and pathogenic characteristics in the context of the co-evolution of the virus and host.

Prerequisites: MCB 3020C for level UG with min. grade of C and PCB 3023C for level UG with min. grade of C

MCB 4507C Virology Mycology Parasitology 3 credits
Lecture and laboratory course highlighting medically important viruses, parasites and fungi. Topics include clinical presentation, mechanisms of infection, diagnostic techniques and treatment. Laboratory exercises emphasize culture and identification techniques used to investigate specific human pathogens.

Prerequisites: MCB 3020C OR MCB 2010C
MHS 6006  Prin of Counseling Profession  4 credits
Required first course for majors in counselor education; an elective for students in other programs. Counseling as a profession; its philosophical framework; its scope and functions; its organization and administration in various settings.

MHS 6010  Intro to School Counseling  3 credits
To provide students with an overview of the roles, responsibilities, functions, and characteristics of the school counselor within a comprehensive developmental guidance and counseling program.

MHS 6021  Intro to Comm Mental Hlth Coun  3 credits
An introductory course for counselors working in non-school settings. Focus on foundational knowledge, social and cultural foundations, history of the profession, and basic listening skills.

MHS 6056  Lifespan Development II  3 credits
Part II of a 2-part sequence in lifespan development on issues from adolescence to death. In addition to physical, intellectual and emotional growth, the course will also consider changing human contexts across time and the development of healthy sexuality. Prerequisites: MHS 6055

MHS 6070  Mental Disorders  3 credits
Mental disorders emphasizing recognition of behavioral symptoms and their social and cultural contexts linked to appropriate helping approaches and referral for further diagnosis and treatment.

MHS 6200  Appraisal Procedures  3 credits
A study of test and non-test techniques of appraisal with emphasis on the use of test data in counseling programs. Focus will be on integrating data from a variety of sources at individual, small group, and large group levels.

MHS 6340  Career Development  3 credits
Introduction to career development theory and practices including methods of identifying and delivering career information, counseling, and assessment for career development and decision-making, career programs and services in schools and community organizations, and technology as part of career development methods.

MHS 6400  CounsTheory for School Couns  3 credits
Introduction to various counseling theories and techniques as applied to children in the school setting. Further, this course will allow students the opportunity to practice specific techniques in a controlled environment.

MHS 6401  Advanced School Counsel Method  3 credits
Students will advance their knowledge and skills to create, coordinate, maintain, and evaluate a balanced, comprehensive developmental school counseling program. Also, this course focuses on the phylogeny and future trends of school counseling as impacted by all stake holders.

MHS 6404  Intro to Couns Theory and Tech  3 credits
The study and practice of major theoretical positions in counseling and psychotherapy; implications for research and practice in contemporary social contexts.

MHS 6405  Advanced Counseling Theory  3 credits
An advanced study of counseling approaches, current research, and empirically supported treatment.

MHS 6420  Counseling Spec Population Gps  3 credits
Application of counseling theory to work with clients from special population groups, e.g., students who are , exceptional, ethnic minorities, and at-risk. Each student will select a specific population group for supervised research.
MHS 6428  Cross-cultural Counseling  3 credits
The focus of this course is to help students gain awareness of the ways in which an individual's sense of self, identity, the ways in which they understand others, as well as their conceptions of mental health and well-being are derived from their world-view and prevailing philosophy of life which is shaped by social and cultural norms and values.

MHS 6450  Issues in Addictions and Abuse  3 credits
The basis of addictive and abusive behavior in our society from biological, social, cultural, for counselors to successfully intervene in and psychological perspectives the lives of clients impacted by addiction and abuse. Issues pertaining to substances, domestic violence and sexuality will be explored.

MHS 6470  Human Sexual Issues Counselor  3 credits
Emphasis include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to sexuality counseling.

MHS 6481  Human Dev for School Counselor  3 credits
An examination of theories of human development from conception to the end of life, applying theoretical paradigms to actual children and families through observations, interviews and case studies, and exploring the issues of typical/atypical development, parenthood, and adaptive family life-styles within varying ecological contexts.

MHS 6482  Lifespan/Development  3 credits
Part 1 of a 2-course sequence. Focus on development in infancy and childhood related to physical growth, intellectual and linguistic growth, healthy sexuality, and social/emotional growth. Admission to the Counselor Education program or permission of instructor required.

MHS 6500  Introduction to Group Dynamics  3 credits
An experiential study of group structure, group dynamics, methodology, and leadership models applicable to working with groups in mental health settings. Includes skill building through supervised practice.

MHS 6509  Group Couns. Theor. & Pract.  4 credits
An experiential study of group structure, group dynamics, methodology, and leadership models applicable to working with clients in small groups in both school and community settings. Includes skills building through supervised practice.

MHS 6510  Adv Thry of Grp Couns and Thpy  3 credits
An advanced study of counseling and therapy groups, research that informs practice in group settings, and models applicable to working with diverse groups in mental health settings. Focuses on developing competencies necessary for independent practice and self-supervision in professional settings. Prerequisites: MHS 6405

MHS 6530  Grp Wrk for Sch Professionals  3 credits
An experimental study of group structure, group dynamics, methodology, and leadership models applicable to working with groups in school settings. Includes skill building through supervised practice.

MHS 6600  Collabor & Consult Prblm Solve  1 credits
Communication skills, problem-solving strategies, ethics, and the models and processes of reading.

MHS 6601  Consult & Collab Prob Solve  3 credits
Consultation theory, models, and practice with an emphasis on collaborative problem solving particularly with educators, other professionals, families, community agency personnel, individually and in groups.

MHS 6605  Spec Needs Couns & Counsel  3 credits
Identifying and planning for the special needs of atypical children from age 3 - 18. Explores issues relevant to working with clients from special population groups within educational settings. Particular emphasis is given to children with special needs who may come from families and communities with distinct ethnic, racial or socioeconomic parameters which may prove challenging for schools and school counselors.

MHS 6620  Org. Admin and Supv  3 credits
A study of organization behavior and administrative models as applied to community settings addressing mental health and human development in their social and cultural contexts. The course will also review models of clinical supervision and teach requisite skills.

MHS 6700  Legal & Ethical Iss. in Coun.  3 credits
A study of legal, ethical and related professional issues affecting the role and responsibilities of counselors in schools, community agencies, and mental health facilities in social and cultural contexts.

MHS 6710  Research and Prog Evaluation  3 credits
Reviews basic measurement concepts, construction of standardized testing materials, and fundamental descriptive statistics for applied research. A variety of research models will be presented, emphasizing action research and program evaluation in public school settings and community agencies.

MHS 6720  Sem in Prof Dev & Supervision  1 credits
Seminar experience to help transition from University to professional role including professional identity, self-supervision, and lifelong professional learning. Course will meet competencies for Florida Clinical Educator Training Program.

MHS 6800  Practicum in Counseling  3 credits
Supervised individual counseling for integration and application of knowledge and skills gained in didactic study. Application and permission of the program is required.

MHS 6805  Adv Practicum in Counseling  3 credits
Advanced practice course in the application of specific counseling skills that require an integration of basic helping skills, counseling theory, and assessment of counselee needs. Prerequisites: MHS 6800

MHS 6831  Internship I  2 credits
Structured opportunities to observe and practice principles in the field as learned in primary classes.

MHS 6832  Internship II  3 credits
Structured opportunities to observe and practice principles in the field as learned in primary classes.

MHS 6881  Clinical Internship I  2 credits
Structured opportunities to observe and practice principles in the field as learned in primary classes.
Study of human blood ontogeny, kinetics, and pathophysiology.

MLS 4308C Hematology/Hemostasis 3 credits
Study of human blood ontogeny, kinetics, and pathophysiology. Lecture study of theory and application of analytical techniques used to diagnose and monitor hematological disease and disorders of hemostasis. Prerequisites: BSC 1010C

MLS 4820C Clinical Biochemistry Practicum 3 credits
Advanced practical experience and didactic information in a clinical biochemistry laboratory emphasize chemistry instrumentation, immunoochemical analysis, electrophoresis, blood gases, TDM, and toxicology. Departmental permission, acceptance into the Department of EHMCS, and senior standing. Prerequisites: MLS 4627C Fee Required

MLS 4821C Clinical Microbiology Practicum 3 credits
Advanced practical experience and didactic information in a clinical microbiology laboratory utilizing diagnostic techniques in the identification of pathogenic bacteria, viruses, parasites, and fungi. Department permission, acceptance into the Department of Clinical Laboratory Science and senior standing. Prerequisites: MCB 4203C Fee Required

MLS 4822C Clinical Hematology Practicum 3 credits
Advanced practical experience in a clinical hematology/ hemostasis laboratory includes performance of diagnostic procedures and application of knowledge with emphasis on clinical correlation.
Departmental permission, acceptance into the CLS program, and senior standing required.
Prerequisites: MLS 4308C
Fee Required

MLS 4823C Clinical Immunohematology Practicum 3 credits
Advanced practical experience in a clinical immunohematology laboratory and perfusion service including compatibility testing, blood transfusion procedures and antibody detection and identification, and management of a transfusion service and donor center. Clinical experience includes operation Departmental permission, acceptance into the Department of Clinical Laboratory Science and senior standing. Prerequisites: MLS 4550C
Fee Required

MLS 4824C Clinical Enrichment 1 credits
Exploration of career opportunities in various laboratory settings including clinical, forensic, cytogenetic, industrial, and public health. Course may be repeated to appreciate different occupational prospects. Departmental permission, acceptance into the CLS program, and senior standing required.

MLS 4826C Clinical Immunology Practicum 2 credits
Advanced practical experience in a clinical immunology laboratory including diagnostic techniques with emphasis on clinical correlation. Prerequisites: MLS 4506C
Fee Required

MLS 4910 Directed Independent Research 1 to 4 credits
Independent research project under faculty direction in Clinical Laboratory Science is investigated. Projects include investigative skills, principles of research application, and rigorous data collection and reporting. Course may be repeated in different research projects. Permission of the instructor is required.

MLS 4911L Research in Molecular Diagnost 4 credits
Research experience in molecular biology is gained under the guidance and supervision of department faculty in an industrial biotechnology laboratory, molecular diagnostic laboratory or research facility. Departmental permission required. Prerequisites: MLS 4191C

MLS 4932 Special Topics in CLS 1 to 3 credits
Topics/focus of Clinical Laboratory Science under faculty direction is investigated. A selected topic, focus or problem in the CLS discipline will be studied. Course may be repeated in different topic area. Permission of the instructor is required.

MLS 4940C Biotechnology/Molecular Practicum 12 credits
Practical experience provides application of Molecular Biology in a biotechnology laboratory, molecular diagnostic laboratory or research facility. Departmental permission required. Departmental permission required. Prerequisites: PCB 4523C and MLS 4191C

MLS 4950 International Study in Health 1 to 3 credits
International aspects of Clinical Laboratory Science and/or health/medical professions under faculty direction is investigated. This course may include travel to international sites. Course may be repeated in different site or aspect. Permission of the instructor is required.

MMC 2604 Journalism and Society 3 credits
Examination of journalism's function, concepts, and role in society. Current issues and trends, ethics, how news is weighed and disseminated, the business of journalism and journalism careers. Students become more critical consumers of media. Prerequisites: ENC 1101 for level UG with min. grade of C

MMC 3104 Writing, Grammar and Style 3 credits
This writing-intensive course teaches the principles common to all strong writing, along with the fundamentals of grammar and AP style. It is appropriate for students preparing to be journalists or writers. Prerequisites: ENC 1102 for level UG with min. grade of C

MMC 3125 News Reporting and Writing 3 credits
This news writing workshop covers the fundamentals of journalistic reporting and writing for various platforms. Prerequisites: MMC 3104 for level UG with min. grade of C

MMC 3602 Mass Comm & Society 3 credits
A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States and their relationship to the other major institutions of American society.

MMC 4211 Media Law and Ethics 3 credits
Examination of journalism's ethical principles and legal climate, including day-to-day ethical dilemmas, big-picture thematic ethical issues, public records law, shield laws and major court decisions affecting journalism. Prerequisites: ENC 1102 for level UG with min. grade of C

MTG 3216 Geom with Lin Algebra 3 credits
Study of Euclidean and non-Euclidean geometries, utilizing techniques of linear algebra. Topics include overview of synthetic geometry, vectors and matrices, linear transformations and isometries, orthogonality, vector space methods in Euclidean and projective geometry, non-Euclidean geometries, applications to computational geometry and computer graphics. Prerequisites: MAC 2311 for level UG with min. grade of C

MUE 3303 Piano Pedagogy I 3 credits
Study of teaching piano to beginning pupils privately and in groups. Includes a survey of materials and teaching methods appropriate for these levels. Prerequisite: Two semesters of MVK 2021, Sophomore Applied Piano. Prerequisites: MVK 2021

MUE 3304 Piano Pedagogy II 3 credits
Study of teaching piano to intermediate and advanced pupils privately. Designed to provide an in-depth study of materials, repertoire, musical and technical development, and curriculum planning for the intermediate and advanced pre-college student. Prerequisites: MUE 3303

MUE 3311 Teaching Music, Elementary 3 credits
The study of methods used to teach music at the elementary level. Includes theoretical background as well as specific methods for teaching music literacy and performance in the context of vocal and instrumental music. Prerequisites: MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C

MUE 3331 Secondary Vocal Music Methods 3 credits
Designed to prepare students to teach vocal music in the secondary school. Includes observation of secondary vocal music programs.
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<tr>
<td>MUN 1240</td>
<td>University Strings</td>
<td>0 to 1</td>
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</table>

Prerequisites:

- MUG 3104 for level UG with min. grade of C (may be taken concurrently)
- MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C
- MUT 2117 for level UG with min. grade of C and MUT 2246 for level UG with min. grade of C
- MUL 2110 for level UG with min. grade of C (may be taken concurrently)
- MUT 1112 for level UG with min. grade of C and MUT 2246 for level UG with min. grade of C
- MUH 2110 Masterworks of Music 3 credits
- MUH 3212 Survey of Music History II 3 credits
- MUL 2110 Intro to Music Literature 3 credits
- MUL 4481 Piano Literature I 3 credits
- MUL 4485 Piano Literature II 3 credits
- MUN 1120 Symphonic Band 0 to 1 credits
- MUN 1310 University Choir 1 credits

Performing and teaching opportunities for music students in this program include:

- University Choir: A choral group providing specialized study performance opportunities for vocally qualified students. This course may be taken concurrently.
- University Strings: Performance group for string instrumentalists. Open to all qualified university students through audition. Interested students should contact the conductor prior to the beginning of the term. Previous instrumental experience required. (Instructor approval)
- University Band: Performance group of wind and percussion instrumentalists. Open to all qualified university students through audition. Interested students should contact the conductor prior to the beginning of the term. Previous instrumental experience required.
repeated for a maximum of eight (8) credits. Permission of the instructor is required.

MUN 3133 Symphonic Band 0 to 1 credits
Performance group for upper level band instrumentalists. Open to qualified junior and senior university students through audition. Interested students should contact the conductor prior to the beginning of the term. Previous instrumental experience required.
~Prerequisite: Two semesters of MUN 1120 with a C or better.
Prerequisites: MUN 1120 for level UG with min. grade of C

MUN 3213 University Strings 0 to 1 credits
Performance group for upper level string instrumentalists. Open to all junior and senior qualified university students through audition. Interested students should contact the conductor prior to the beginning of the term. Previous instrumental experience required.
~Prerequisite: Two semesters of MUN 1240 with a C or better.
Prerequisites: MUN 1240 for level UG with min. grade of C

MUN 3313 University Choir 0 to 1 credits
Performance group for upper level singers. Open to qualified junior and senior university student through audition. Interested students should contact the conductor prior to the beginning of the term. Previous singing experience required.
~Prerequisite: Two semesters of MUN 1310, University Choir with a C or better.
Prerequisites: MUN 1310 for level UG with min. grade of C

MUS 1010 Recital Attendance 0 credits
Attendance at 70% of the semester's performance lab, faculty, student or guest recitals or ensemble concerts, with a maximum of 14 per semester.

MUS 1201 Diction I 1 credits
Fundamentals of English, Italian and Latin diction designed for vocal music students, but open to non-music majors. Utilizes the International Phonetic Alphabet.

MUS 1360 Intro to Music Technology 1 credits
Study of computer applications to the study of music, including notation and sequencing software.
Prerequisites: MUT 1111 for level UG with min. grade of C

MUS 2202 Diction II 1 credits
Fundamentals of German and French diction designed for vocal music students, but open to non-music majors. Utilizes the International Phonetic Alphabet.
Prerequisites: MUS 1201

MUS 3953 Junior Recital 1 credits
Public performance in student's applied emphasis. One semester of Junior Applied Lessons in the student's applied area.

MUS 4920 Senior Capstone in Music 2 credits
Senior capstone course involving a variety of performance, research and/or service activities to provide an integrative experience within the discipline of music.

MUS 4930 Special Topics in Music 1 to 3 credits
Special Proposals for music topics not in current offerings.

MUS 4954 Senior Recital 1 credits
Public performance by seniors in student's applied emphasis. One semester of Senior Applied Lessons in the student's applied area.

MUT 1001 Fundamentals of Music 3 credits
Intensive study of the elements of music including pitch notation and reading, rhythmic notation, major and minor scales and key signatures, triads, and intervals, with correlated musicianship skills including keyboard, sight-singing and dictation.

MUT 1111 Music Theory I 3 credits
Study of common-practice harmony through analysis and writing. Music fundamentals review, triad and seventh-chord construction, diatonic harmonic progression, SATB voice- leading and chord-connection principles with root-position and first-inversion triads. Development of related compositions, keyboard and improvisation skills. (Advisor approval needed)
Prerequisites: MUT 1001 for level UG with min. grade of C

MUT 1112 Music Theory II 3 credits
Continuation of common-practice-harmony study with attention to second inversion triads, cadences, phrases and periods, non-chord tones, diatonic seventh chords, secondary dominants and leading-tone chords. Introduction to modulation. Development of related keyboard, composition and improvisation skills.
Prerequisites: MUT 1111 for level UG with min. grade of C

MUT 1241 Sight Singing/Ear Training I 1 credits
Development of music reading skills through sight singing; development of aural skills through melodic, rhythmic and harmonic dictation and critical listening. Coordinated with concepts covered in Theory I. Use of music technology lab required.
Prerequisites: MUT 1111 (may be taken concurrently)

MUT 1242 Sight Singing/Ear Training II 1 credits
Development of music reading skills through sight singing; development of aural skills through melodic, rhythmic and harmonic dictation, and critical listening. Coordinated with concepts covered in Theory II. Use of music technology lab required.
Prerequisites: MUT 1241 for level UG with min. grade of C and MUT 1112 for level UG with min. grade of C (may be taken concurrently)

MUT 2116 Music Theory III 3 credits
Continuation of Theory II. Chromatic harmony including review of secondary function, simple and complex modulations, borrowed chords, Neapolitan sixth and augmented sixth chords. Introduction to binary and ternary forms. Development of related keyboard, composition and improvisation skills.
Prerequisites: MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C

MUT 2117 Music Theory IV 3 credits
Continuation of Theory III and introduction to Twentieth-Century musical procedures. Advanced modulation of chromatic harmony. Twentieth Century scales, harmonies, rhythms, and chord successions. Set theory and serial procedures. Includes related keyboard, composition and improvisation skills.
Prerequisites: MUT 2116 for level UG with min. grade of C

MUT 2246 Sight Singing/Ear Training III 1 credits
Development of music reading skills through singing; development of aural skills through melodic, rhythmic and harmonic dictation and critical listening. Coordinated with concepts covered in Theory III. Use of music technology lab required.
Prerequisites: MUT 1242 for level UG with min. grade of C Corequisites: MUT2116
MUT 2247 Sight Singing/Ear Training IV 1 credits
Development of music reading skills through sight singing: development of aural skills through melodic, rhythmic and harmonic dictation and critical listening. Use of music technology lab required.
Prerequisites: MUT 2246 for level UG with min. grade of C

MUT 3311 Orchestration and Arranging 3 credits
Development of skills in scoring and arranging music for various combinations of instruments including strings, brass, woodwinds, and percussion. Study of transpositions, ranges, and idiomatic scoring for individual instruments. Projects include transcriptions and arrangements.
Prerequisites: MUT 2117 for level UG with min. grade of C and MUT 2247 for level UG with min. grade of C

MUB 1011 Freshman Applied Trumpet 1 to 2 credits
Private study in trumpet for freshmen. Previous playing experience required.

MUB 1012 Freshman Applied Horn 1 to 2 credits
Private study in horn for freshman. Previous playing experience required; permission of instructor.

MUB 1013 Freshman Applied Trombone 1 to 2 credits
Private study in trombone for freshman. Previous playing experience required; permission of instructor.

MUB 1014 Freshman Applied Euphonium 1 to 2 credits
Private study in euphonium for freshman. Previous playing experience required; permission of instructor.

MUB 1015 Freshman Applied Tuba 1 to 2 credits
Private study in tuba for freshman. Previous playing experience required; permission of instructor.

MUB 2021 Sophomore Applied Trumpet 1 to 2 credits
Private study in trumpet for sophomores. Two semesters of Freshman Applied Trumpet, MUB 1011, with a C or better.
Prerequisites: MUB 1011 for level UG with min. grade of C

MUB 2022 Sophomore Applied Horn 1 to 2 credits
Private study in horn for sophomores. Two semesters of Freshman Applied Horn with a C or better.
Prerequisites: MUB 1012 for level UG with min. grade of C

MUB 2023 Sophomore Applied Trombone 1 to 2 credits
Private study in trombone for sophomores. Two semesters of Freshman Applied Trombone with a C or better.
Prerequisites: MUB 1013 for level UG with min. grade of C

MUB 2024 Sophomore Applied Euphonium 1 to 2 credits
Private study in euphonium for sophomores. Two semesters of Freshman Applied Euphonium with a C or better.

MVB 1011 Freshman Applied Trumpet 1 to 2 credits
Private study in trumpet for freshmen. Previous playing experience required.

MVB 1012 Freshman Applied Horn 1 to 2 credits
Private study in horn for freshman. Previous playing experience required; permission of instructor.

MVB 1013 Freshman Applied Trombone 1 to 2 credits
Private study in trombone for freshman. Previous playing experience required; permission of instructor.

MVB 1014 Freshman Applied Euphonium 1 to 2 credits
Private study in euphonium for freshman. Previous playing experience required; permission of instructor.

MVB 1015 Freshman Applied Tuba 1 to 2 credits
Private study in tuba for freshman. Previous playing experience required; permission of instructor.

MVB 2021 Sophomore Applied Trumpet 1 to 2 credits
Private study in trumpet for sophomores. Two semesters of Freshman Applied Trumpet, MVB 1011, with a C or better.
Prerequisites: MVB 1011 for level UG with min. grade of C

MVB 2022 Sophomore Applied Horn 1 to 2 credits
Private study in horn for sophomores. Two semesters of Freshman Applied Horn with a C or better.
Prerequisites: MVB 1012 for level UG with min. grade of C

MVB 2023 Sophomore Applied Trombone 1 to 2 credits
Private study in trombone for sophomores. Two semesters of Freshman Applied Trombone with a C or better.
Prerequisites: MVB 1013 for level UG with min. grade of C

MVB 2024 Sophomore Applied Euphonium 1 to 2 credits
Private study in euphonium for sophomores. Two semesters of Freshman Applied Euphonium with a C or better.

MVB 3431 Junior Applied Trumpet 1 to 3 credits
Private study in trumpet for juniors. Two semesters of MVB 2021, Sophomore Applied Trumpet, with a C or better.
Prerequisites: MVB 2021 for level UG with min. grade of C

MVB 3432 Junior Applied Horn 1 to 3 credits
Private study in horn for juniors. Prerequisite: Two semesters of MVB 2022, Sophomore Applied Horn, with a C or better.
Prerequisites: MVB 2022 for level UG with min. grade of C

MVB 3433 Junior Applied Trombone 1 to 3 credits
Private study in trombone for juniors. Two semesters of MVB 2023, Sophomore Applied Trombone, with a C or better.
Prerequisites: MVB 2023 for level UG with min. grade of C

MVB 3434 Junior Applied Euphonium 1 to 3 credits
Private study in euphonium for juniors. Two semesters of MVB 2424, Sophomore Applied Euphonium, with a C or better.
Prerequisites: MVB 2424 for level UG with min. grade of C

MVB 3435 Junior Applied Tuba 1 to 3 credits
Private study in tuba for juniors. Two semesters of MVB 2025, Sophomore Applied Tuba, with a C or better.
Prerequisites: MVB 2025 for level UG with min. grade of C

MVB 4441 Senior Applied Trumpet 1 to 3 credits
Private study in trumpet for seniors; two semesters of MVB 3431, Junior Applied Trumpet, are required as prerequisites.
Prerequisites: MVB 3431 for level UG with min. grade of C

MVB 4442 Senior Applied Horn 1 to 3 credits
Private study in horn for seniors. Two semesters of MVB 3432, Junior Applied Horn, are required as prerequisites.
Prerequisites: MVB 3432 for level UG with min. grade of C

MVB 4443 Senior Applied Trombone 1 to 3 credits
Private study in trombone for seniors. Two semesters of MVB 3433, Junior Applied Trombone, are required as prerequisites.
Prerequisites: MVB 3433 for level UG with min. grade of C

MVB 4444 Senior Applied Euphonium 1 to 3 credits
Private study in euphonium for seniors. Two semesters of MVB 3434, Junior Applied Euphonium, are required as prerequisites.
Prerequisites: MVB 3434 for level UG with min. grade of C

MVB 4445 Senior Applied Tuba 1 to 3 credits
Private study in tuba for seniors. Two semesters of MVB 3435, Junior Applied Tuba, are required as prerequisites.
Prerequisites: MVB 3435 for level UG with min. grade of C

MVK 1011 Freshman Applied Piano 1 to 2 credits
Private study in Piano for freshman.

MVK 1111 Class Piano I 1 credits
Beginning study in piano in a class environment. Designed to begin to develop the basic keyboard skills needed to pass the common prerequisite piano proficiency exam. Topics include scales, basic chord progressions and simple sight reading, transposition, harmonization and improvisation. (Advisor approval needed)

MVK 1112 Class Piano II 1 credits
Advanced beginning study in piano in a class environment. Designed to begin to develop the basic keyboard skills needed to
pass piano proficiency exam. Topics include scales, harmonic progressions, broken chords and appropriate sight reading, transposition, harmonization and improvisation. (Advisor approval needed)
Prerequisites: MVP 1111

MVP 2421 Sophomore Applied Percussion 1 to 2 credits
Private study in percussion for sophomores. Two semesters of MVP 2421, Sophomore Applied Percussion, with a C or better.
Prerequisites: MVP 2421 for level UG with min. grade of C

MVP 4441 Senior Applied Percussion 1 to 3 credits
Private study in percussion for seniors. Two semesters of MVP 3431, Junior Applied Percussion, are required as prerequisites.
Prerequisites: MVP 3431 for level UG with min. grade of C

MVS 1011 Freshman Applied Violin 1 to 2 credits
Private study in violins for freshmen.

MVS 1012 Freshman Applied Viola 1 to 2 credits
Private study in viola for freshmen. Previous playing experience required; permission of instructor.

MVS 1016 Freshman Applied Guitar 1 to 2 credits
Private study in guitar for freshmen. Previous playing experience required; permission of instructor.

MVS 2021 Sophomore Applied Violin 1 to 2 credits
Private study in violins for sophomores. Two semesters of Freshman Applied Violin, MVS 1011, with a C or better.
Prerequisites: MVS 1011 for level UG with min. grade of C

MVS 2022 Sophomore Applied Viola 1 to 2 credits
Private study in violas for sophomores. Two semesters of Freshman Applied Viola with a C or better.
Prerequisites: MVS 1012 for level UG with min. grade of C

MVS 2026 Sophomore Applied Guitar 1 to 2 credits
Private study in guitar for sophomores. Two semesters of MVS 1016, Freshman Applied Guitar, with a C or better.
Prerequisites: MVS 1016 for level UG with min. grade of C

MVS 2423 Sophomore Applied Cello 1 to 2 credits
Private study in celli for sophomores. Two semesters of MVS 1013, Freshman Applied Cello, with a C or better.
Prerequisites: MVS 1013 for level UG with min. grade of C

MVS 2424 Sophomore Applied Double Bass 1 to 2 credits
Private study in double bass for sophomores. Two semesters of MVS 1414, Freshman Applied Double Bass, with a C or better.
Prerequisites: MVS 1414 for level UG with min. grade of C

MVS 3431 Junior Applied Violin 1 to 3 credits
Private study in violins for juniors. Two semesters of MVS 2021, Sophomore Applied Violin, with a C or better.
Prerequisites: MVS 2021 for level UG with min. grade of C

MVS 3432 Junior Applied Viola 1 to 3 credits
Private study in viola for juniors. Two semesters of MVS 2022, Sophomore Applied Viola, with a C or better.
Prerequisites: MVS 2022 for level UG with min. grade of C

MVP 1311 Freshman Applied Percussion 1 to 2 credits
Private study in percussion for freshmen. Previous playing experience required.

MVP 2321 Sophomore Applied Percussion 1 to 2 credits
Private study in percussion for sophomores. Two semesters of Freshman Applied Percussion with a C or better is required.
Prerequisites: MVP 1311 for level UG with min. grade of C

MVP 3431 Junior Applied Percussion 1 to 3 credits
Private study in percussion for juniors. Two semesters of MVP 2421, Sophomore Applied Percussion, with a C or better.
Prerequisites: MVP 2421 for level UG with min. grade of C

MVP 4441 Senior Applied Percussion 1 to 3 credits
Private study in percussion for seniors. Two semesters of MVP 3431, Junior Applied Percussion, are required as prerequisites.
Prerequisites: MVP 3431 for level UG with min. grade of C

MVS 1011 Freshman Applied Violin 1 to 2 credits
Private study in violins for freshmen.

MVS 1012 Freshman Applied Viola 1 to 2 credits
Private study in viola for freshmen. Previous playing experience required; permission of instructor.

MVS 1016 Freshman Applied Guitar 1 to 2 credits
Private study in guitar for freshmen. Previous playing experience required; permission of instructor.

MVS 2021 Sophomore Applied Violin 1 to 2 credits
Private study in violins for sophomores. Two semesters of Freshman Applied Violin, MVS 1011, with a C or better.
Prerequisites: MVS 1011 for level UG with min. grade of C

MVS 2022 Sophomore Applied Viola 1 to 2 credits
Private study in violas for sophomores. Two semesters of Freshman Applied Viola with a C or better.
Prerequisites: MVS 1012 for level UG with min. grade of C

MVS 2026 Sophomore Applied Guitar 1 to 2 credits
Private study in guitar for sophomores. Two semesters of MVS 1016, Freshman Applied Guitar, with a C or better.
Prerequisites: MVS 1016 for level UG with min. grade of C

MVS 2423 Sophomore Applied Cello 1 to 2 credits
Private study in celli for sophomores. Two semesters of MVS 1013, Freshman Applied Cello, with a C or better.
Prerequisites: MVS 1013 for level UG with min. grade of C

MVS 2424 Sophomore Applied Double Bass 1 to 2 credits
Private study in double bass for sophomores. Two semesters of MVS 1414, Freshman Applied Double Bass, with a C or better.
Prerequisites: MVS 1414 for level UG with min. grade of C

MVS 3431 Junior Applied Violin 1 to 3 credits
Private study in violins for juniors. Two semesters of MVS 2021, Sophomore Applied Violin, with a C or better.
Prerequisites: MVS 2021 for level UG with min. grade of C

MVS 3432 Junior Applied Viola 1 to 3 credits
Private study in viola for juniors. Two semesters of MVS 2022, Sophomore Applied Viola, with a C or better.
Prerequisites: MVS 2022 for level UG with min. grade of C
MVS 3433  Junior Applied Cello  1 to 3 credits
Private study in cello for juniors. Two semesters of MVS 2423, Sophomore Applied Cello, with a C or better.
Prerequisites:  MVS 2423 for level UG with min. grade of C

MVS 3434  Junior Applied Double Bass  1 to 3 credits
Private study in double bass for juniors. Two semesters of MVS 2424, Sophomore Applied Double Bass, with a C or better.
Prerequisites:  MVS 2424 for level UG with min. grade of C

MVS 3436  Junior Applied Guitar  1 to 3 credits
Private study in guitar for juniors. Two semesters of MVS 2026, Sophomore Applied Guitar, are required as prerequisites.
Prerequisites:  MVS 2026 for level UG with min. grade of C

MVS 4441  Senior Applied Violin  1 to 3 credits
Private study in violin for seniors. Two semesters of MVS 3431, Junior Applied Violin, are required as prerequisites.
Prerequisites:  MVS 3431 for level UG with min. grade of C

MVS 4442  Senior Applied Viola  1 to 3 credits
Private study in viola for seniors. Two semesters of MVS 3432, Junior Applied Viola are required as prerequisites.
Prerequisites:  MVS 3432 for level UG with min. grade of C

MVS 4443  Senior Applied Cello  1 to 3 credits
Private study in cello for seniors. Two semesters of MVS 3433, Junior Applied Cello, are required as prerequisites.
Prerequisites:  MVS 3433 for level UG with min. grade of C

MVS 4444  Senior Applied Double Bass  1 to 3 credits
Private study in double bass for seniors. Two semesters of MVS 3434, Junior Applied Double Bass, are required as prerequisites.
Prerequisites:  MVS 3434 for level UG with min. grade of C

MVS 4446  Senior Applied Guitar  1 to 3 credits
Private study in guitar for seniors. Two semesters of MVS 3436, Junior Applied Guitar, are required as prerequisites.
Prerequisites:  MVS 3436 for level UG with min. grade of C

MVW 1011  Freshman Applied Flute  1 to 2 credits
Private study in flute for freshman. Previous playing experience required.

MVW 1013  Freshman Applied Clarinet  1 to 2 credits
Private study in clarinet for freshman.

MVW 1312  Freshman Applied Oboe  1 to 2 credits
Private study in oboe for freshmen. Previous playing experience required; permission of instructor.

MVW 1314  Freshman Applied Bassoon  1 to 2 credits
Private study in bassoon for freshmen. Previous playing experience required; permission of instructor.

MVW 1315  Freshman Applied Saxophone  1 to 2 credits
Private study in saxophone for freshmen. Previous playing experience required; permission of instructor.

MVW 2321  Sophomore Applied Flute  1 to 2 credits
Private study in flute for sophomores. Two semesters of Freshman Applied Flute are required with a C or better.
Prerequisites:  MVW 1011 for level UG with min. grade of C

MVW 2322  Sophomore Applied Oboe  1 to 2 credits
Private study in oboe for sophomores. Two semesters of Freshman applied Oboe are required with a C or better.
Prerequisites:  MVW 1312 for level UG with min. grade of C

MVW 2323  Sophomore Applied Clarinet  1 to 2 credits
Private study in clarinet for sophomores. Two semesters of MVW 1013, Freshman Applied Clarinet, with a C or better.
Prerequisites:  MVW 1013 for level UG with min. grade of C

MVW 2324  Sophomore Applied Bassoon  1 to 2 credits
Private study in bassoon for sophomores. Two semesters of MVW 1314, Freshman Applied Bassoon, with a C or better.
Prerequisites:  MVW 1314 for level UG with min. grade of C

MVW 2325  Sophomore Applied Saxophone  1 to 2 credits
Private study in saxophone for sophomores. Two semesters of Freshman Applied Saxophone are required with a C or better.
Prerequisites:  MVW 1315 for level UG with min. grade of C

MVW 3431  Junior Applied Flute  1 to 3 credits
Private study in flute for juniors. Two semesters of MVW 2321, Sophomore Applied Flute, with a C or better.
Prerequisites:  MVW 2321 for level UG with min. grade of C

MVW 3432  Junior Applied Oboe  1 to 3 credits
Private study in oboe for juniors. Two semesters of MVW 2422, Sophomore Applied Oboe, with a C or better.
Prerequisites:  MVW 2322 for level UG with min. grade of C

MVW 3433  Junior Applied Clarinet  1 to 3 credits
Private study in clarinet for juniors. Two semesters of MVW 2323, Sophomore Applied Clarinet, with a C or better.
Prerequisites:  MVW 2323 for level UG with min. grade of C

MVW 3434  Junior Applied Bassoon  1 to 3 credits
Private study in bassoon for juniors. Two semesters of MVW 2324, Sophomore Applied Bassoon, with a C or better.
Prerequisites:  MVW 2324 for level UG with min. grade of C
anesthesia in the clinical setting. Application of theories in perioperative nursing to the delivery of advanced anesthesia care to clients in a variety of settings.

**Prerequisites:** MVW 2325 for level UG with min. grade of C

**MVW 4441 Senior Applied Flute** 1 to 3 credits
Private study in flute for seniors. Two semesters of MVW 3431, Junior Applied Flute, are required as prerequisites.

**Prerequisites:** MVW 3431 for level UG with min. grade of C

**MVW 4442 Senior Applied Oboe** 1 to 3 credits
Private study in oboe for seniors. Two semesters of MVW 3432, Junior Applied Oboe, are required as prerequisites.

**Prerequisites:** MVW 3432 for level UG with min. grade of C

**MVW 4443 Senior Applied Clarinet** 1 to 3 credits
Private study in clarinet for seniors. Two semesters of MVW 3433, Junior Applied Clarinet, are required as prerequisites.

**Prerequisites:** MVW 3433 for level UG with min. grade of C

**MVW 4444 Senior Applied Bassoon** 1 to 3 credits
Private study in bassoon for seniors. Two semesters of MVW 3434, Junior Applied Bassoon, are required as prerequisites.

**Prerequisites:** MVW 3434 for level UG with min. grade of C

**MVW 4445 Senior Applied Saxophone** 1 to 3 credits
Private study in saxophone for seniors. Two semesters of MVW 3435, Junior Applied Saxophone, are required as prerequisites.

**Prerequisites:** MVW 3435 for level UG with min. grade of C

**NGR 5431C Clinical Practicum I** 1 credits
Application of theories in perioperative nursing to the delivery of anesthesia in the clinical setting.

**NGR 5432C Clinical Practicum II** 1 credits
Delivery of basic anesthesia nursing care including regional techniques to clients in a variety of clinical settings.

**Prerequisites:** NGR 5431C

**Fee Required**

**NGR 5433C Clinical Practicum III** 6 credits
Delivery of perioperative nursing to children, childbearing mothers and elders.

**Prerequisites:** NGR 5432C

**NGR 5434C Practicum IV** 6 credits
Delivery of advanced nursing care to clients in a variety of settings. Student practice includes on call experience.

**Prerequisites:** NGR 5433C

**NGR 5435C Clinical Practicum V** 6 credits
Anesthesia management of clients with post-operative and chronic pain.

**Prerequisites:** NGR 5434C

**Fee Required**

**NGR 5436C Clinical Practicum VI** 6 credits
Delivery of advanced anesthesia nursing care to clients in specialty areas.

**Prerequisites:** NGR 5435C

**NGR 5437C Clinical Practicum VII** 6 credits
Delivery of advanced anesthesia care to clients in a variety of settings

**Prerequisites:** NGR 5436C

**NGR 5947C Internship** 1 credits
The nurse anesthetist student functions as the primary nurse anesthetist with instructor as consultant.

**Prerequisites:** NGR 5945C

**NGR 6002C Health Appraisal/Interpretation** 4 credits
Collection and synthesis of client database and differential diagnosis of common client problems. Using critical thinking and a holistic lifespan approach, students interpret, analyze, and document alterations in health to serve as a basis for client management.

**NGR 6031C Adv. Assess & Monitoring** 3 credits
Focus is on developing knowledge and skill in diagnostic testing and monitoring strategies used in intensive care settings. Focus is on patient population 18 and older.

**Prerequisites:** NGR 6811 and NGR 6211C and NGR 6740

**Corequisites:** NGR 6213C

**NGR 6098 Synthesis Seminar** 3 credits
Comprehensive review of preparation for national certification examination.

**Prerequisites:** NGR 6173 and NGR 6149 and NGR 6145

**NGR 6140 Pathophysiology I** 2 credits
First of two term study of pathophysiology with an emphasis on systems approach to pathology.

**Corequisites:** NGR 6156

**NGR 6141 Physiological Alterations** 3 credits
Emphasis is placed on investigation, analysis, and interpretation of pathophysiologic bases of clinical manifestations of selected alterations in health. Focus is on advanced practice nursing implications for health promotion, maintenance, and restoration.

**NGR 6143 Adv. Anat, Physio. & Path IV** 1 credits
Continued study of advanced pathophysiology with emphasis on the body's homeostasis mechanisms and their aberrant function.

**Prerequisites:** NGR 6149

**NGR 6144 Pathophysiology II** 2 credits
Second of two term study of pathophysiology with an emphasis on systems approach to pathology.

**Prerequisites:** NGR 6197

**Corequisites:** NGR 6165

**NGR 6149 Adv. Anat, Physio. & Path III** 1 credits
Study of advanced pathophysiology with emphasis on the body's homeostasis mechanisms and their aberrant function.

**Prerequisites:** NGR 6145

**NGR 6156 Adv. Anatomy and Physiology I** 2 credits
Study of the advanced anatomy and physiology, with emphasis on the body's homeostasis mechanisms and their aberrations.

**Corequisites:** NGR 6140

**NGR 6165 Adv. Anatomy and Physiology II** 2 credits
Continuation of Advanced Anatomy and Physiology I with emphasis on homeostatic mechanisms and their aberrations. Further study of selected disease processes provides the foundation for advanced clinical decision making.

**Prerequisites:** NGR 6140 for level UG with min. grade of B

**Corequisites:** NGR 6144
NGR 6172 Advanced Therapeutics 3 credits
In-depth study of pharmacotherapeutics using an integrative approach to examine the use and efficacy of traditional and complementary drug therapies used in advanced practice nursing.

NGR 6210C Acute Care Practice I 3 credits
Theoretical and practice basis for providing acute care nursing at an advanced level to clients experiencing critical illnesses. Emphasis is on diagnostic reasoning and beginning management skills. Prerequisites: NGR 6140 and NGR 6002C and NGR 6174 Corequisites: NGR6173 Fee Required

NGR 6211C Acute Care Practice II 6 credits
Emphasis is continued on the theoretical and practice applications of providing acute care nursing at the advanced practice level to clients and their families experiencing critical illnesses. Focus is on further development of diagnostic reasoning and management skills. Prerequisites: NGR 6210C and NGR 6140 and NGR 6174 Corequisites: NGR6811

NGR 6213C Acute Care Practice III 6 credits
Focus is directed on further refinement of knowledge and skills used in the management, monitoring of acutely ill clients. Emphasis on patient evaluation, use of prescriptive privileges, and the legal constraints of acute care nurse practitioners within the acute care setting. Prerequisites: NGR 6740 and NGR 6811 and NGR 6211C Corequisites: NGR6195

NGR 6214C Acute Care Practice IV 6 credits
Incorporation and integration of all components of the acute care nurse practitioner role developed in previous courses with further refinement of knowledge and skills in working with older adults experiencing acute illness. Prerequisites: NGR 6213C and NGR 6149 and NGR 6195 and NGR 6013C Corequisites: NGR6149 Fee Required

NGR 6215C Primary Health Care V 6 credits
Focus is on models for advanced nursing and health care management of acute health alterations in the adult population. Prerequisites: NGR 6192 for level GR with min. grade of B and NGR 6240C for level GR with min. grade of B

NGR 6240C Primary Health Care I 6 credits
Theoretical and practice bases for providing primary health care to adults in the community. Emphasis is on advanced practice nursing strategies for promotion and maintenance of health and management of adult health needs. Prerequisites: NGR 6002C and NGR 6141 and NGR 6740 Corequisites: NGR6192

NGR 6252C Primary Health Care IV 6 credits
Incorporation and integration of all components of the primary health nurse care practitioner role developed in preceding courses with further refinement of advanced practice knowledge and competency with emphasis on the older adult. Prerequisites: NGR 6240C and (NGR 6741C OR NGR 6305C)

NGR 6305C Primary Health Care III 6 credits
The course focuses on strategies for health promotion, maintenance and prevention of common health problems and management of alterations in children and families. Prerequisites: NGR 6172 (may be taken concurrently) and NGR 6240C

NGR 6400 Chem &Phys in Nurse Anesthesia 2 credits
Biochemical principles of mechanisms, actions, and theories as they apply to perioperative nursing practice.

NGR 6405 Adv. Principles NA Practice II 3 credits
An in-depth study of perioperative management of patients experiencing cardiovascular, respiratory, endocrine, renal, hepatic, and neurological disease and traumatic injury. Prerequisites: NGR 6421

NGR 6410 Perioperative Technology 1 credits
Theory and principles related to technological devices used in perioperative nursing. Emphasis on operation and use of monitoring devices such as transducers, oximeters, and capnographs.

NGR 6420 Basic Principles of Anesthesia 3 credits
Broad field orientation to perioperative nursing practice. Corequisites: NGR6460

NGR 6421 Adv. Principles of Anesthesia I 3 credits
Perioperative management for childbearing women, children, and seniors. Prerequisites: NGR 6420

NGR 6460 Pharmacology I 3 credits
Study of pharmacokinetic, pharmacodynamic, and clinical use of anesthesia agents in the perioperative management of anesthetic drugs. Corequisites: NGR6420

NGR 6461 Pharmacology II 3 credits
Study of the pharmacokinetic, pharmacodynamic, and clinical use of adjuvant drugs in the perioperative management of anesthesia administration. Prerequisites: NGR 6140 and NGR 6420 Corequisites: NGR6421

NGR 6491 Synthesis Seminar 3 credits
Comprehensive review of preparation for national certification examination. Prerequisites: NGR 6149 and NGR 6405 and NGR 6461

NGR 6710 Tching&Assess Strat in Nsg Edu 3 credits
Emphasis is on attainment of nurse educator competencies in developing and implementing teaching and assessment strategies used in classroom, laboratory, and clinical settings to enhance the achievement of learner outcomes. Prerequisites: NGR 6002C and NGR 6141 and NGR 6740

NGR 6712 Foundations of Nursing Educ. 3 credits
Exploration of nursing education within a broad context related to history, philosophy and the principles of adult-learning theory.

NGR 6713 Design&Eval of Nurs Curricula 3 credits
Emphasis is on the role of the nurse educator in developing program outcomes, and designing and evaluating nursing curricula that reflect contemporary health care trends in which graduates are prepared to practice in a complex, dynamic, multicultural health care environments. Prerequisites: NGR 6002C for level GR with min. grade of and
NGR 6141 for level GR with min. grade of and NGR 6740 for level GR with min. grade of

NGR 6731 Entrepreneurship 2 credits Synthesis and practical application of entrepreneurial strategies for advanced practice.

NGR 6740 Concepts/Roles of Adv Practice 3 credits Examination of professional, organizational, legal, ethical, political, and economic influences on advanced nursing. Standards and scope of practice are explored.

NGR 6741C Primary Health Care II 6 credits The course focus is on strategies for health maintenance and prevention of common health problems and management of health alterations in women and families. Prerequisites: NGR 6240C and NGR 6192 Fee Required

NGR 6770 Clin Nur Leadership & Advocacy 3 credits Focus is on enhancement of knowledge and skills needed for decision-making and critical thinking in integrating nursing leadership roles, management functions, and advocacy. Prerequisites: NGR 6002C for level GR with min. grade of and NGR 6192 for level GR with min. grade of and NGR 6240C for level GR with min. grade of

NGR 6773L Clinic Nurse Leader Practicum 2 credits Focus of the practicum is for immersion experience in full-time practice in the Clinical Nurse Leader role. All course work for the CNL must be completed prior to enrolling in this practicum course. As this is a graduate level competency-based course, all competencies must be satisfactorily accomplished.

NGR 6811 Scholarly Inquiry 3 credits In-depth examination, evaluation, and application of questions, methods, designs, and frameworks for scholarly inquiry.

NGR 6872 Nursing Information Management 3 credits Focus is on analysis of nursing information requirements, design of system management technology, identification and implementation of user-training strategies and evaluation of effectiveness of clinical nursing and/or management information systems in client care. Prerequisites: NGR 6002C for level GR with min. grade of B and NGR 6192 for level GR with min. grade of B and NGR 6240C for level GR with min. grade of B

NGR 6894 Global Trends & Practice Persp 3 credits Comprehensive examination of global trends and issues with implications for shaping health care delivery and improving global health outcomes.

NGR 6905 Independent Study in Nursing 1 to 6 credits Directed, individualized study of a current concept, problem, or issue pertaining to nursing.

NGR 6930 Special Topics in Nursing 1 to 6 credits Examination of advanced topics in nursing. The course may be repeated for different topic areas, and content may vary.

NGR 6941L Nurse as Educator Practicum 3 credits Experiential learning experiences focusing on design, delivery, and evaluation of educational strategies in selected environments. Prerequisites: NGR 6712 and HSC 6258 and HSC 6715 OR EDF 6432

NGR 6949 Clinical Correlation Conference 3 credits Focus is on increasing critical thinking skills of students utilizing case-study methodology to develop patient specific anesthesia care plans. Prerequisites: NGR 6173 and NGR 6149 and NGR 6145

NUR 3065C Health Assessment 3 credits A critical thinking, systems approach to health assessment of diverse individuals across the lifespan. Prerequisites: BSC 1085C for level UG with min. grade of C and BSC 1086C for level UG with min. grade of C and NUR 3125 (may be taken concurrently)

NUR 3105C Caring Scholar Clinician 5 credits Foundational course emphasizing professional role development in nursing. The interrelationships of nursing concepts, theory, research and practice as a basis for understanding nursing as a discipline are explored. Corequisites: NUR 3125

NUR 3125 Pathophysiology in Nursing 3 credits A systems approach to the major pathologies and related physiologic responses. Prerequisites: BSC 1085C and BSC 1086C

NUR 3145 Pharmacology for Nursing 3 credits A systems approach to the major pharmacological classifications and alternative therapies. Prerequisites: BSC 1085C and BSC 1086C

NUR 3226 Adult Health Nursing I 3 credits A systems approach to nursing care of diverse individuals with alterations in health. Prerequisites: NUR 3065C and NUR 3125 and (NUR 3829C OR NUR 3105C) Corequisites: NUR 3226L

NUR 3226L Adult Health Nursing I Clinic 4 credits Clinical practice experiences offer students with opportunities to provide safe, appropriate nursing care for patients with acute, chronic, or life-threatening health problems. Prerequisites: NUR 3065C and NUR 3125 and (NUR 3829C OR NUR 3105C) Corequisites: NUR 3226

NUR 3286C Gerontological Nursing 2 credits A systems approach to nursing care of aging individuals and their families. Prerequisites: NUR 3065C and NUR 3125 and NUR 3145 (may be taken concurrently) and (NUR 3829C OR NUR 3105C) Fee Required

NUR 3355 Child Health Nursing 2 credits A systems approach to health promotion, health maintenance, and nursing care of families with infants and children. Prerequisites: NUR 3065C and NUR 3125 and NUR 3145 and NUR 3226 and NUR 3226L and NUR 3829C Corequisites: NUR 3355L

NUR 3355L Child Health Nursing Clinic 1 credits Students practice nursing care of families with ill infants and children and health promotion/maintenance for families with infants and children.
NUR 3465 Pop-Based Care: Spec Pops 3 credits
Focus on health care needs during life transitions from prenatal care, the birthing process, early infancy, childhood and adolescence.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 4756 and NUR 4756L
Corequisites: NUR3465L

NUR 3465C Pop-Based Care: Spec Pops 6 credits
Focus on nursing care of women and children during life transitions from prenatal care, the birthing process, early infancy, childhood and adolescence.
Prerequisites: NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3125 for level UG with min. grade of C and NUR 3145 for level UG with min. grade of C and NUR 4756C for level UG with min. grade of C and NUR 3525C

NUR 3465L Pop-Based Care Spec Pop Clinic 2 credits
Experiences with women, children and families undergoing normal transitions in the life cycle are the focus of practice. Practice settings include women's health centers, day care centers, pediatric ambulatory care centers, hospitals, and birthing centers.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 4756 and NUR 4756L
Corequisites: NUR3465

NUR 3525C Pop Based Care: Men Hlth Nurs 3 credits
Introduction to holistic mental health nursing that synthesizes biological, psychosocial, cultural, and spiritual concepts related to care of patients and families across the lifespan.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 4756 and NUR 4756C
Corequisites: NUR3525

NUR 3535 Mental Health Nursing 2 credits
Mental health nursing focuses on concepts related to care of individuals/families experiencing mental health disorders.
Prerequisites: NUR 3065C and (NUR 3829C OR NUR 3105C) and NUR 3125
Corequisites: NUR3535L

NUR 3535L Mental Health Nursing Clinical 1 credits
Clinical practice experiences provide students with the opportunity to provide care for patients and families experiencing mental health disorders.
Prerequisites: NUR 3065C and (NUR 3829C OR NUR 3105C) and NUR 3125
Corequisites: NUR3535
Fee Required

NUR 3829C Foundations of Nsg Practice 4 credits
A foundational course emphasizing professional role development and basic nursing care.

NUR 3833 Patient Care Manage in Nursing 3 credits
An introduction to patient care management concepts in nursing essential to promote high quality and safe patient outcomes.
Prerequisites: NUR 3065C and (NUR 3829C OR NUR 3105C) and NUR 3125

NUR 3935 Nursing Elective 3 credits
In-depth examination of a current or emerging topic or issue in nursing. This course may be repeated for credit for different topics.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and (NUR 3105C for level UG with min. grade of C OR NUR 3829C)

NUR 4043C Issues and Leadership 5 credits
Examination of professional issues and nursing leadership within a changing health care climate. The interrelationships between selected facets of health care are explored in conjuction with moral development, ethical decision-making and leadership in nursing.
Prerequisites: NUR 4041

NUR 4227 Adult Health Nursing II 3 credits
A systems approach to nursing care of diverse individuals with alterations in health.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 3829C
Corequisites: NUR4227L

NUR 4227L Adult Health Nursing II Clinic 4 credits
Clinical practice experiences offer students with opportunities to provide safe, appropriate nursing care for patients with acute, chronic, or life-threatening health problems.
Prerequisites: NUR 3065C and NUR 3125 and NUR 3145 and NUR 3829C and NUR 3065C for level UG with min. grade of C OR NUR 3829C
Corequisites: NUR4227

NUR 4295C Critical Care Nursing 3 credits
A systems approach to nursing care of individuals with complex, multisystem alterations in health.
Prerequisites: NUR 3065C and NUR 3125 and NUR 3145 and NUR 2226 and NUR 2226L and NUR 4227 and NUR 4227L and NUR 3829C

NUR 4455 Reproductive Health Nursing 2 credits
Reproductive health nursing focuses on concepts related to health promotion and care of individuals and families.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3145 and NUR 3829C
Corequisites: NUR4455L

NUR 4455L Reproductive Health Nurs Clinic 1 credits
Clinical practice experiences provide the students with the opportunity to apply principles of family and reproductive health nursing.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3145 and NUR 3829C
Corequisites: NUR4455
Fee Required

NUR 4636 Community & Pub Health Nursing 3 credits
Concepts of population-centered health care including health promotion, epidemiology, disaster preparedness, environmental health, and bioterrorism.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 4756 and NUR 4756L and (NUR 3525C OR (NUR 3535 and NUR 3535L) )
Corequisites: NUR4636L

NUR 4636C Community Partnered Care 5 credits
Focus on nursing role in promoting health of individuals and communities within the context of public and community health policies and legislation.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3145 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 4756C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3525C and NUR 3105C for level UG with min. grade of C

NUR 4636L Comm & Pub Hlth Nurs Clinic  2 credits
Clinical practice experiences provide students with the opportunity to apply principles of community and public health nursing with aggregate populations.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 4756 and NUR 4756L and (NUR 3525C OR (NUR 3535 and NUR 3535L))
Corequisites: NUR4636
Fee Required

NUR 4756 Pop Based Care:Vulnerable Pops  3 credits
Introduction to nursing care of individuals with common acute and chronic health conditions and lifestyle.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3125 for level UG with min. grade of C
Corequisites: NUR4756L

NUR 4756C Pop Based Care:Vulnerable Pops  5 credits
Introduction to nursing care of adults with common acute and chronic health conditions.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C
Corequisites: NUR3145

NUR 4756L Pop Bas Care:Vulnerable Clinic  3 credits
Experiences with acutely and/or chronically ill patients in the hospital setting are the focus of practice experiences.
Prerequisites: NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3125 for level UG with min. grade of C
Corequisites: NUR4756

NUR 4767 Crisis Based Care  3 credits
Nursing care of individuals with complex acute and chronic health conditions.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and NUR 3535 and NUR 3535L and NUR 4756 and NUR 4756L.
Corequisites: NUR4767L

NUR 4767C Crisis Based Care  5 credits
Nursing care of adults with complex acute and chronic health conditions.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3145 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 4756C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3525C and NUR 3105C for level UG with min. grade of C
Corequisites: NUR4767

NUR 4805 Caring Scholar Clinician Role  3 credits
Emphasizes professional role socialization within the discipline through examination of nursing concepts, philosophy, theory, research, and practice interrelationships.

NUR 4826 Issues Based Care  3 credits
Examination of issues and dilemmas faced by nurses within a changing health care climate. Interrelationships between selected facets of health care are explored with moral development and ethical decision making in nursing.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and (NUR 3525C OR (NUR 3535 and NUR 3535L)) and NUR 4756 and NUR 4756L
Corequisites: NUR4826L

NUR 4826C Issues Based Care  5 credits
Issues and dilemmas faced by nurses within a health care climate are explored along with moral development and ethical decision making in nursing practice.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C and NUR 3145 for level UG with min. grade of C and NUR 4756C for level UG with min. grade of C and NUR 3525C

NUR 4826L Issues Based Care Clinical  2 credits
Nursing practice experiences in acute and community settings are selected to enable students to identify legal, ethical, professional, and practice-related problems and dilemmas faced by patients, healthcare practitioners and nurses.
Prerequisites: NUR 3065C and NUR 3105C and NUR 3125 and NUR 3145 and (NUR 3525C OR (NUR 3535 and NUR 3535L)) and NUR 4756 and NUR 4756L
Corequisites: NUR4826

NUR 4905 Directed Independent Study  1 to 6 credits
Individualized pursuit of a selected topic.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C

NUR 4930 Special Topics in Nursing  1 to 6 credits
Examination of topics of current or special interest in nursing. The course may be repeated for different topic areas, and content may vary.
Prerequisites: NUR 3125 for level UG with min. grade of C and NUR 3065C for level UG with min. grade of C and NUR 3105C for level UG with min. grade of C

NUR 4948L Senior Nursing Practicum  3 credits
Culminating clinical practice experience with a clinical preceptor that provides students opportunities to plan, deliver, and evaluate safe, competent care for patients in various health care settings. All theoretical courses must be completed as required for Level II preceptored practice experiences per Florida Board of Nursing rule. Fee Required

OCB 4633C Marine Ecology  3 credits
Investigates the interactions of biotic (living) and abiotic (nonliving) factors in a marine setting. Diverse environments such as sea grasses, mud flats, coral and mullusc reefs, and the impact of pollution will be examined.
Prerequisites: BSC 1011C for level UG with min. grade of C
(BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C)
OCB 4936  Senior Seminar Marine Science  1 credits
This capstone course synthesizes student experiences from mentored senior research projects or internships as a culminating experience to the degree program.
Prerequisites:  OCE 3008C (may be taken concurrently) and (EVR 4910 (may be taken concurrently) OR EVR 4940 (may be taken concurrently) )

OCB 6635  Estuarine Ecology  3 credits
Ecological examination of estuarine systems. Treatment will include: estuarine organisms and their adaptations; community structure and dynamics; and human impact on estuarine systems. Course structure includes lecture and review and discussion of relevant literature.
Prerequisites:  PCB 3043C for level UG with min. grade of B

OCB 6646  Marine Biogeography  3 credits
Examination of the geographical distribution of animals in the marine environment. Treatment will include historical as well as contemporary biogeography, biogeography of the major benthic and pelagic realms of the oceans, and the relationship between geographic patterns and evolution.

OCB 6931  Special Topics in Ichthyology  1 to 4 credits
Examines the phylogenetic relationships and evolutionary trends among major groups of both extinct and modern Fish physiology, ecology, zoogeography and evolution fishes. are examined using the primary literature.
Prerequisites:  BSC 1011C for level UG with min. grade of B

OCC 4002C  Marine Chemistry  3 credits
This course will focus on the chemical composition of seawater, seawater carbonate system, nutrients, trace elements and biogeochemistry.
Prerequisites:  OCE 3008C for level UG with min. grade of C and (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) OR CHM 1046C for level UG with min. grade of C (may be taken concurrently) )

OCC 5115C  Advanced Marine Chemistry  3 credits
Focus on the chemical composition of seawater, carbonate system, nutrients, trace elements and biogeochemistry. (Permission of instructor required)

OCE 1001C  Marine Systems  3 credits
Interdisciplinary introduction to the study of the world's oceans. Students become acquainted with basic scientific and oceanographic concepts through a hands-on exploration of the marine environments of Southwest Florida. Topics may include the role of the oceans in determining weather and climate; environmental stress and marine mammals; building on moving beaches; and estuaries nurseries of the sea. Lecture, laboratory and field experiences are fully integrated in this general education course designed primarily for students with a concentration other than in the natural sciences.
Fee Required

OCE 3008C  Oceanography  3 credits
A systems approach to the study of the world's oceans integrating elements of biological, chemical, geological and physical oceanography. Examination of basic oceanographic principals and processes, with a focus on marine ecosystems of Southwest Florida.
Prerequisites:  (BSC 1010C for level UG with min. grade of C (may be taken concurrently) OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) )

OR (BSC 1011C for level UG with min. grade of C (may be taken concurrently) OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C ) ) and ( (CHM 1045 for level UG with min. grade of C (may be taken concurrently) and CHM 1045L for level UG with min. grade of C (may be taken concurrently) ) OR CHM 1045C for level UG with min. grade of C (may be taken concurrently) )

OCG 6053  Coastal & Watershed Geol  3 credits
Considers those geological and hydrological processes that occur at the Earth's surface. Topics include: physical and chemical weathering, soil formation, sedimentology and stratigraphy, geomorphology and physiography, surface and groundwater hydrology, and human-induced effects and environmental problems.

OCP 3002C  Physical Oceanography  3 credits
Describes physical processes influencing the oceans and coastal environments, the interaction of the ocean with the atmosphere, and the distribution of oceanic winds, currents, heat fluxes and water masses.
Prerequisites:  OCE 3008C

ORH 2220C  Turfgrass Mgt Operations  3 credits
Comprehensive introduction to fundamental concepts of modern turfgrass science. Emphasis is placed on introducing, identifying, and discussing concepts and principles of basic turfgrass taxonomy, individual turfgrass species, major components of the turfgrass environment, and theoretical interactions between turfgrasses and elements of the turf environment.

ORI 3000  Intro Communication as Perform  3 credits
Course is designed to develop proficiency in the understanding and oral communication of literature and other written materials including learning the phonetic alphabet and transcription and voice, diction, and the oral interpretation of poetry, prose and dramatic readings. A prerequisite course of SPC 2023 is recommended but not required.

OTH 3012C  Dynamics of Communication  3 credits
Introduction to self-awareness, interpersonal communication, and group dynamics for effective communication with clients, families, and healthcare professionals. Communication skill and group dynamics are experienced and processed through personal reflection, experiential labs, and fieldwork experiences.

OTH 3417C  Gross Human Anatomy  4 credits
Explores the regional and functional anatomy of the human body in both the lecture and laboratory format with the emphasis on its application to the practice of occupational therapy. The subject content of this course is divided into four units: lower extremity; back and upper extremity; thorax; abdomen and pelvis; and head and neck. Laboratory activities are designed to enhance the lecture topics and consists of students studying pre-dissected cadavers, prospected tissues, radiographs, bone sets, models, videotapes, and CD-ROM computer programs. Admittance to the occupational therapy program or departmental approval is required for enrollment.
Fee Required

OTH 3429C  Neuroanatomy & Function  3 credits
Structural organization of human central nervous system, major features of brain and spinal cord, and functional relationships between these structures are identified in depth, to form the basis for clinical application. Prospected specimens and models are used.
Prerequisites: OTH 3417C Fee Required

OTH 4932 Special Topics Seminar 1 to 4 credits
This course is designed around topics that are reflective of current health care needs related to occupational therapy practice. Topics are developed around instructor expertise with student input considered.

OTH 5817 Advancing Prac in Elder Care 3 credits
Use of tools for self-directed learning, and application of evidence-based and occupation-centered practice with elders. Students will identify specific goals for learning and apply new knowledge to work in their current practice settings.

OTH 6002 OT History and Foundations 2 credits
History, philosophy, evolution, and core values of occupational therapy. The Occupational Therapy Framework, professional behaviors, ethical issues, and roles of occupational therapists and certified occupational therapy assistants are introduced. May be waived for students with equivalent undergraduate coursework in occupational therapy.

OTH 6009 Theory in Occupational Therapy 3 credits
Comprehensive study of theory underpinning current occupational therapy practice; clinical reasoning; application of theory in context.

OTH 6018 Professional Practice 3 credits
Introduction to skills for management of client's physical and occupational needs. Includes analysis of activity, therapeutic use of activity, therapeutic use of self, and basics of documentation.

OTH 6026C Group Process and Management 3 credits
Theory and practice of group dynamics; development of self-awareness and interpersonal communication skills necessary for successful management of therapeutic groups. ~ Admission to the program required.
Fee Required

OTH 6106C Technology in Practice 3 credits
Examination of assistive technology and applications to enhance performance and prevent injury; analysis of need for assistive devices or environmental modification; application of technology in context; exploration of computer technology to enhance occupational therapy intervention.
Prerequisites: OTH 6226C

OTH 6226C Evaluation of Perform Issues 3 credits
Comprehensive study of evaluation processes in occupational therapy using a top-down approach; assessments of occupational performance within developmentally appropriate contexts; assessment of performance skills and patterns. Prerequisites: OTH 6536C and OTH 6605C

OTH 6235C OT Interventions 3 credits
Selection and implementation of therapeutic interventions consistent with occupational therapy theory as applied in specific context. Evaluation of client outcomes, review of occupational performance process, and ethical decision-making are emphasized. Prerequisites: OTH 6536C and OTH 6605C

OTH 6414C Applications in Human Anatomy 1 credits
Lab experience to further develop human anatomy and neuroanatomy knowledge base using various learning aids, including computer images, models, human tissue specimens, and cadaver examination. Clinical applications will be explored through case studies.

OTH 6415C Human Motion in Activity 3 credits
Analysis of human movement incorporating mechanical, biological, developmental and environmental factors. Basic skills in assessment of motor performance are developed.

OTH 6436C Adult UE Rehabilitation 3 credits
Continuation of OTH 6226C and OTH 6235C. Evidence-based evaluation and interventions for individuals with acute and chronic injuries or conditions of the upper extremity. Emphasis on splinting skill development.
Prerequisites: OTH 6226C for level GR with min. grade of B and OTH 6235C for level GR with min. grade of B
Fee Required

OTH 6523C Practice with Children 3 credits
Continuation of OTH 6226C and OTH 6235C. Evidence-based evaluation and interventions for children and their families; school-based traditional hospital or rehabilitation based, or community-based practice settings. Outcomes assessment and ethical decision-making are emphasized.
Prerequisites: OTH 6226C for level GR with min. grade of B and OTH 6235C for level GR with min. grade of B
Fee Required

OTH 6536C Occ. Performance Issues I 3 credits
Examination of infant through adolescent development of motor, process and interaction skills; occupational performance issues and patterns related to atypical development or disease; impact of an individual's developmental and occupational performance needs on the family.

OTH 6605 Community, Wellness and Health 3 credits
Analysis of readings to identify role of occupation in aging well, from the solitary to the community levels; students will develop, plan marketing, and design outcomes evaluation of well and health promotion programs for elders.
Prerequisites: OTH 5817 for level GR with min. grade of B

OTH 6605C Occ. Performance Issues II 3 credits
Examination of typical changes in motor, process and interaction skills due to aging and disease processes, relationships to successful occupational performance patterns throughout adulthood, implications for changes in occupational performance and impact of changes on family.

OTH 6645 Chronic Conditions 3 credits
In-depth exploration of advanced OT roles in facilitating health and interdependence in elders with chronic conditions; extensive study of the latest adaptations, technologies and partnerships utilized to enable such elders to age in place.
Prerequisites: OTH 5817 for level GR with min. grade of B

OTH 6707 Management & Supervision in OT 3 credits
Program planning, budgeting and evaluation; supervision of occupational therapy personnel; engagement in professional associations and promotion of occupational therapy.

OTH 6725 Community Practice Seminar 3 credits
Explores the role of occupational therapy in community settings. Students develop proposals for occupation-based or occupational therapy services that support desired outcomes of service agencies.

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the community. Field experience included.
Prerequisites: OTH 6226C

OTH 6751C Outcomes Research 3 credits
Applied research in occupational therapy. Critical analysis of
published research, development of a research proposal, and
planning for the implementation of a research project.

OTH 6780 Apprenticeship 3 credits
Students will conduct a project to develop programming for a
cooperating community agency or assist with ongoing research
under the supervision of faculty and/or an appropriate community
member. Projects will vary.
Prerequisites: OTH 5817 for level GR with min. grade of B

OTH 6840 Level I Fieldwork A 1 credits
Fieldwork placement in a clinical or community setting; students
observe clinical practice and develop clinical skills under
supervision of an occupational therapy practitioner; documentation
skills are further refined.

OTH 6841 Level I Fieldwork B 1 credits
Fieldwork placement in a setting different from the first; students
observe clinical practice and develop clinical skills under the
supervision of an occupational therapy practitioner; documentation
skills are further refined.
Prerequisites: OTH 6436C and OTH 6523C

OTH 6845 Level II Fieldwork A 6 credits
Twelve-week, full-time fieldwork placement in a clinical or
community setting under the direct supervision of a licensed and/or
registered occupational therapist. Includes pre-fieldwork seminars,
a portfolio, and web board discussions.

OTH 6846 Level II Fieldwork B 6 credits
Twelve-week, full-time fieldwork placement in a setting different
from the first internship (in service delivery context or population)
under the direct supervision of a licensed and/or registered
occupational therapist. Includes web board discussions.

OTH 6847 Level II Fieldwork C 3 credits
Optional six-week, full-time fieldwork placement in a setting different
from the required fieldwork placements (in service delivery context or population) under the
direct supervision of a licensed and/or registered occupational therapist. Include we board
discussions.
Prerequisites: OTH 6845 and OTH 6846

OTH 6910 Directed Study 3 credits
Student group carry out research planned in OTH 6772, Outcomes
Research, under the supervision of a faculty advisor, and write an
article of publishable quality according to manuscript guidelines of
an occupational therapy publication appropriate for research.

OTH 6936 Special Topics in OT 3 credits
Current issues, selected problems, or specialized areas of practice
in occupational therapy are examined. Topics vary according to
practice trends and study/faculty interest. Course may be repeated
for different topics.

OTH 6973C Project Implementation 1 credits
Continuation course to implement research protocols in OTH
6751C, Outcomes Research; students will participate at selected
community sites under the supervision of a faculty mentor and a
designated member of the community agency staff; schedule and
site varies with the project assignment.
Prerequisites: OTH 6751C
Fee Required

PAD 3100 Org Behavior in PSM 3 credits
Examines the dynamics of public organizations; including the
impacts of individual behavior, structure, culture, and politics on
performance.

PAD 3712 Public Service Info Technology 3 credits
Public Service Information Technology examines the issues related
to managing digital technology in the public Introduces students to
e-government applications; sector. including planning,
procurement, implementation, evaluation, and limitations of
information technologies.

PAD 3723 Res Meth & Qual Anal 3 credits
Introduction to methods and techniques of research used in public
services. Topics include choices for choosing appropriate research
methods, tools for research design and data collection techniques.

PAD 3810 State & Local Public Admin 3 credits
An introduction to public administration at the state and local levels
of government.
Prerequisites: ENC 1102 for level UG with min. grade of C

PAD 3820 Public Saf Sys Integ 3 credits
Examines the issues of public safety systems within a fragmented
government structure.

PAD 3870 Pub. Admin. Super. I 3 credits
Provides advanced levels of management in Public Safety Units.
Enhances levels of interpersonal communications skills. Identifies
leadership skills, traits, and personal leadership styles. Promotes
ability to identify personnel and material requirements in public
safety. Provides methods of planning for public safety issues in
routine and specialized situational response.

PAD 3871 Pub. Admin. Super. II 3 credits
Provides methods of dealing with problem personnel through
progressive discipline. Describes the budgeting process for public
safety units. Deals with disaster planning and implementation of
response. Provides methodology in determination of training
requirements for personnel.
Prerequisites: PAD 3870 for level UG with min. grade of C

PAD 4232 Grants & Contract Mgmt 3 credits
Government of public nonprofit agency grant and contract
administration and management responding to funding assistance
solicitations and grant and contract preparation, evaluation, and
presentation. (Departmental permission required)

PAD 4604 Ethics in Pub Svcs 3 credits
Examines the issues of administrative ethics in public service.
Topics include public integrity, ethics codes, administrative
discretion, secrecy and Sunshine Laws, organizational pressures on
whistleblowing.

PAD 4872 Pub. Svc. Mgmt. I 3 credits
Provides advanced levels of management in Public Safety Units.
Extols a number of theoretical management frameworks and
ideologies. Conveys management techniques necessary to control
diverse multi-task public safety units.
Prerequisites: PAD 3870 for level UG with min. grade of C and
PAD 3871 for level UG with min. grade of C
PAD 4873 Pub. Svc. Mgmt. II 3 credits
Provides advanced levels of management in Public Safety Units. Identifies various ethical decision making processes in managing Public Safety Units. Discloses requirements for the demographics of communities served by Public Safety Agencies. Provides tools to fairly deal with collective bargaining entities.
Prerequisites: PAD 4872

PAD 4879 Senior Seminar in PSM 3 credits
Required integrative seminar for senior Public Services Management majors. Summarizes and integrates the theories and practices of public services management, examines the contemporary public services environment and cutting-edge management practices.

PAD 4905 PSM Dir Indep Study 3 credits
Individual study for Public Service Management students under the direction of a faculty member. Topics vary and are usually selected on an individual basis.

PAD 4932 Special Topics in PSM 3 credits
Courses centering around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester.

PAD 5041 Administrative Ethics 3 credits
Examination of ethical problems in public administration, individuals. Topics include public integrity, administrative discretion, secrecy and lying, organizational pressures and the limits of dissent, and ethics codes.

PAD 5142 Management of Non-profit Org 3 credits
Identification and evaluation of approaches to managing non-profit organizations to make them effective, legal, efficient, just and conscientious organizations working for the public good as defined by their missions, executive leadership, and boards.

PAD 5255 Community/Economic Development 3 credits
The course will examine the community and economic development efforts on the community level in the United States. The focus will be on theory and practice and an examination of the process from the public and private sector as well as community self-help efforts.

PAD 5336 Environmental Policy & Ethics 3 credits
Focus on important concepts and methods in environmental policy-making, including the constraints placed on environmental policy-making by conventional understandings of property rights, risk assessment, and economic analysis.

PAD 5620 Environmental Law 3 credits
Introduction to selected major pieces of federal environmental legislation, including the role of the courts and administrative agencies, historical development, and the impacts of the environmental regulatory decision making process.

PAD 5933 Proposal Writing & Grant Admin 3 credits
Essentials of program planning and proposal writing, grantsmanship, the process of program evaluation, and general administrative practices as they apply to public organizations.

PAD 6060 Intro to Public Administration 3 credits
Overview of the theory and practice of public administration with special attention to the development of analytical and problem solving skills. Topics include the historical development of public administration, the structure of public organizations, leadership, decision-making, and accountability roles of public managers.

PAD 6101 Organizational Thry & Behavior 3 credits
Dynamics of complex organizations, the role of bureaucracy and theories of organizations applied to the public sector.

PAD 6205 Public Finance 3 credits
Focus on efficiency, markets, the economic basis for government, political equilibrium and external influences on government finance. (PAD 6207 Public Budgeting, or equivalent, helpful but not necessary.)

PAD 6227 Public Budgeting 3 credits
Survey of the history of budget reform in the United States, budget formats, taxation models, and capital budgeting and expenditures. The historical development of budgeting is used as a framework for constructing and interpreting budgets.
Prerequisites: PAD 6060

PAD 6327 Sem in Program Plan & Evaluat 3 credits
Focus on the underlying rationale, and methods of program planning and evaluation. Prepares students for professional roles as administrators, planners, and change agents in public and social service organizations through the design of an actual evaluation plan.
Prerequisites: PAD 6060 and PAD 6701 and PAD 6708

PAD 6335 Strategic Planning 3 credits
Strategic planning is an extremely important process for both public and non-profit agencies, especially with the trend of public sector functions being performed either by non-profits or in cooperation with non-profit organizations. This course will examine the strategic planning process outlined above and the relationship between budgeting and planning processes.

PAD 6365 Public Policy 3 credits
Overview of the theory and practice of public policy. Topics include problem definition and policy formulation, economic approaches to policy analysis, collective action problems, ethics and public policy, and policy entrepreneurship.

PAD 6417 Public Personnel Admin 3 credits
Overview of public personnel systems at both the national and subnational levels of government, evolution and adaptation to changing conditions. Topics include position descriptions, classification, and pay systems; performance management; merit and patronage systems; training and professional development; women's issues in management; workforce diversity; and personnel law.
Prerequisites: PAD 6060 (may be taken concurrently)

PAD 6605 Administrative Law 3 credits
Overview of the legal environment of public administration. Detailed examination of the development, implementation, and adjudication of the regulatory infrastructure at the national and subnational levels of government, application of the Administrative Procedures Act, discretionary, authority, and structure and operation of various regulatory agencies.

PAD 6701 Data Analysis in Public Srvcs 3 credits
This is a graduate seminar and core course in the MPA program. The course is designed for MPA students and others interested in public administration statistical methodologies. Upon completion of this course, the student should be familiar with the technical
terms used in applied social science research and have the capability of producing an empirical data-based research document using both primary and secondary data sources.

PAD 6708 Research Applications 3 credits
Introduction to methods and techniques used in public management research. Topics include problem formulation, research design, survey construction and data collection.

PAD 6812 State & Local Politics & Admin 3 credits
Examination of the issues, policies, and controversies involved in state and local government. The relationship between institutions, actors, and politics at sub national levels of government is emphasized.

PAD 6826 Intergovernmental Admin 3 credits
Theory and practice of intergovernmental administration among Federal, state and local government(s). Topics include policy devolution, the political and fiscal environment of intergovernmental administration and techniques of intergovernmental control, cooperation and competition.

PAD 6836 Comparative Public Admin 3 credits
Survey of political and administrative systems in other countries and comparison with public administration models in the United States. Emphasis on the cultural and socio-economic factors that shape political and administrative institutions internationally.

PAD 6908 Independent Study 1 to 3 credits
Individual study of a current concept, selected problem or issue pertaining to public administration and/or the student's area of concentration, under the direction of a faculty member in the Division of Public Administration. Departmental permission required. No more than 3 credit hours toward the MPA degree.

PAD 6934 Special Topics 1 to 3 credits
Contemporary public administration topics and public policy issues that are not addressed in other course offerings in the MPA program.

PAD 6940 Internship 3 credits
Internships will be established with public and nonprofit agencies to provide those students with little or no public sector work experience, offering an opportunity to apply concepts learned in graduate seminars in a real world environment. (Departmental permission required)

PAD 6961 Capstone Project 1 to 3 credits
An applied research experience that integrates the principles, theories, and concepts of the core courses in the MPA program and the student's career concentration. Prerequisite: Completion of all other degree requirements. Departmental permission required.

PCB 2336 Human Genetics 3 credits
Basic concepts and applications of fundamental properties of human inheritance using Mendelian and molecular aspects of genetics.

PCB 3023C Cell Biology 3 credits
Cellular biochemistry and physiology with in-depth study of prokaryotic and eukaryotic cellular organelles including their morphology and function. Topics include cellular mobility, growth, bioenergetics, division, communication and regulation. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.

PCB 3033C Concepts of Ecology 2 credits
Basic concepts of ecology at population, community, ecosystem and landscape levels will be studied in integrated lectures, laboratory and field exercises. This course will be integrated with Teaching Methods in the Secondary Sciences. Prerequisites: ISC 1002C for level UG with min. grade of C

PCB 3043C General Ecology 3 credits
Basic concepts of ecology at population, community, ecosystem, and landscape levels will be studied in integrated lectures, laboratory, and field exercises.

PCB 3063C Genetics 3 credits
A study of the principles and theories of heredity including the gene concept, Mendelian and non-Mendelian inheritance. Basic concepts include: the nature, organization, transmission, expression, recombination and function of genetic materials. Principles are derived for genetically characterizing populations. The curriculum is inquiry based and fully integrated with laboratory experiences which emphasize active learning strategies. Prerequisites: (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) ) and ( (CHM 1045 for level UG with min. grade of C OR (CHM 1045L for level UG with min. grade of C and CHM 1045L for level UG with min. grade of C) )

PCB 3324C Soil Ecology 3 credits
This course integrates the study of the physical process of soil formation, the resulting biological communities, and the physical and chemical dynamics that affect these communities. The emphasis will be on soil structures and communities found in Southwest Florida.

PCB 3363C Physiological Ecology 3 credits
Key physiological and behavioral adaptations of animals and plants to temperate and tropical environment will be explored in integrated lectures, discussions, laboratory, and field exercises. A variety of topics will be considered including: the physiology of locomotion, adoptions to maximize photosynthesis and respiration, the influence of life's fluid media (water and air) on physiology and behavior, removal of metabolic wastes, the acquisition of food, social behavior among animals, and reproductive strategies.

PCB 3414C Behavioral Ecology 3 credits
Key behavioral adaptations of invertebrates and vertebrates to their environments will be studied in integrated lectures, laboratory, and field exercises involving such topics as exploration, habitat selection, feeding, reproduction, and social behavior. The adaptive roles of innate and learned behavior will be discussed in relation to different behaviors.

PCB 3422C Population Ecology 3 credits
This course involves the study of ecological principles as applied to populations and how they adjust and adapt to different abiotic and biotic factors. Topics include: population genetics, factors influencing population distributions, population regulation,
intraspecies interactions, interspecies interactions, community structure, and managing populations. This course is inquiry based and fully integrated with both laboratory and field experiences which emphasize active learning strategies.

PCB 3460C  Ecosystem Monit & Resea Method  3 credits  Overview of ecological concepts and basic methods of inventorying, monitoring, and conducting research on terrestrial, freshwater, and marine ecosystems. Emphasis on hands-on experiences. Methods will include those used in describing climatic, chemical, and physical features as well as biotic features, including field identification. The field emphasis will be on Southwest Florida ecosystems.

PCB 3463C  Marine Ecos Mon & Res Method  3 credits  Basic methods of inventorying, monitoring, and conducting research on marine ecosystems. Emphasis on hands-on experiences. Methods will include those used in describing climatic, chemical, and physical features as well as biotic features. The field emphasis will be on Southwest Florida ecosystems.

PCB 3673  Evolutionary Biology  3 credits  The application of evolutionary theory to all sub-fields of the biological sciences (e.g., medicine, ecology, molecular biology, etc.). Patterns and processes of evolution are examined, as is evidence, and the history of evolutionary theory. Application of evolutionary theory to problems is stressed, with a further emphasis on the role of phylogeny across biological discipline boundaries. Prerequisites: (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C)) ) and (BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C))

PCB 3703C  Human Physiology  3 credits  Students will study the organs and organ system of the human body as they operate individually and integrate together. Special attention is devoted to cardiovascular, respiratory, neuromuscular, endocrine, renal and reproductive physiology. The curriculum is inquiry based and fully integrated with activities which emphasize active learning strategies and collaboration. Prerequisites: BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) and BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C) and (CHM 1046C for level UG with min. grade of C OR CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C)

PCB 3723C  Comparative Animal Physiology  3 credits  Study of the function and integration of organs and organ systems of vertebrates and invertebrates. The course and laboratory are fully integrated. Prerequisites: (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C)) and (BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C)) and (CHM 1046C for level UG with min. grade of C OR (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C))

PCB 4233C  Immunology  3 credits  An integrated lecture/laboratory course presenting theory and basic principles of immunology including antigen-antibody reactions immunoglobulin structure, genetics, cellular immunity and immunopathology. Prerequisites: CHM 2211C for level UG with min. grade of C OR (CHM 2211 for level UG with min. grade of C and CHM 2211L for level UG with min. grade of C)) and (BSC 1010C for level UG with min. grade of C OR CHM 2211C for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C)

PCB 4253C  Developmental Biology  3 credits  Basic developmental principles that are common to many organisms as well as those that are unique to specific organisms will be identified. The molecular mechanisms involved in the development of various eukaryotic organisms including fungi, animals, and plant will be examined. Prerequisites: PCB 4522C for level UG with min. grade of C OR PCB 3023C for level UG with min. grade of C

PCB 4303C  Limnology  3 credits  An interdisciplinary approach to the examination of inland waters including lakes, streams, marshes, and swamps. Emphasis on the biotic, chemical and geological components of these aquatic ecosystems using Florida wetlands as models. The course is intended for students with interests in biology, environmental studies, and/or interdisciplinary natural sciences. Permission of instructor.

PCB 4441C  Landscape & Ecosystems Ecology  3 credits  Species are not distributed at random but instead occur in living communities of co-evolved populations adapted to specific physical and chemical environments. These living communities and their abiotic environments constitute ecosystems. Ecosystem structure, function, and processes will be studied in this course along with broader landscape and watershed features that influence the distribution of ecosystems in a series of integrated lectures, laboratory, and field exercises.

PCB 4442C  Wetland Ecology  3 credits  An interdisciplinary analysis of Earth's wetland ecosystems and the environmental issues they face. The structure and function of wetlands will be emphasized in relation to how they are impacted by human activities. Wetland regulations and management are considered. Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L)) and (BSC 1011C OR (BSC 1011 and BSC 1011L)) and PCB 3043C

PCB 4522C  Molecular Genetics  3 credits  Genetics will be investigated at the molecular level. Gene structure, function, variation, and control will be studied with respect to animal and plant cell structure and function. The curriculum is inquiry based and fully integrated with laboratory experiences which emphasize active learning strategies. Prerequisites: BCH 3023C for level UG with min. grade of C and PCB 3063C for level UG with min. grade of C

PCB 4674C  Reptile & Amphibian Evolution  4 credits  Provides an opportunity for advanced study of the biology of "reptiles" and amphibians in an evolutionary context. The entire spectrum of reptile and amphibian diversity is studied from the first known fossil amphibians and their ancestors through all living and extinct clades. Anatomical, physiological, and behavioral biology are also examined from an evolutionary perspective; utilizing the principles of cladistic analysis, each system is examined from its most primitive condition to the many unique derived conditions found among living and/or fossil amphibians and reptiles. Current
controversies may be featured, and topics span from molecular to organismal and ecological. The course will include the use of dissection and physiological laboratory techniques to study various topics.
Prerequisites: ZOO 3713C for level UG with min. grade of C

PCB 4783C  Cell Membrane Physiology  3 credits
Investigation of membrane biosynthesis and functions in transport and signal transduction. The curriculum is inquiry based and fully integrated with laboratory experiences that emphasize active learning strategies.
Prerequisites: PCB 3023C for level UG with min. grade of C and PCB 3023C for level UG with min. grade of C

PCB 4910  Ind. Research in Immunology  1 to 4 credits
In-depth study and research projects under faculty direction in immunology is investigated. Projects include investigative skills, principles of research application, and rigorous data collection and reporting. Course may be repeated in different research projects.
Prerequisites: PCB 4233 for level UG with min. grade of C-

PCB 4930  Special Topics in Immunology  1 to 3 credits
Topics/focus of Immunological Science under faculty direction is investigated. A selected topic, focus or problem in Immunology. Course may be repeated in different topic areas.
Prerequisites: PCB 4233 for level UG with min. grade of C-

PCB 5245  Biology of Aging  3 credits
Investigation of the demographics, physiology of organ systems, evolutionary, environmental, cellular and genetic correlations of the aging process and on the resultant limitations in performance and quality of life in humans.
Prerequisites: BSC 1085C for level UG with min. grade of C and BSC 1086C for level UG with min. grade of C

PCB 6064C  Advanced Ecology  3 credits
Overview of major concepts in ecology with an emphasis on mathematical analytical techniques. Topics include: flows of energy and matter; temporal dynamics; community structure and dynamics; and human impact on ecosystems. Course structure includes lecture, laboratory and field studies and discussion of relevant literature.
Prerequisites: BSC 1011C for level UG with min. grade of B and PCB 3043C for level UG with min. grade of B

PET 3120  PGA Prep I  1 credits
PGA Prep I includes Level 1 part 1 of the PGA/PGM program materials and work experience activities. General overview of required PGA materials included in preparation for the PGA of America checkpoint 1.
Prerequisites: HFT 1382

PET 3125  PGA Prep 2  1 credits
PGA Prep 2, a continuation of PGA Prep 1, study and discussion of PGA level 1 work experience activities. Includes theory, application, business practices, and principles related to the golf industry and preparation for PGA checkpoint 1.
Prerequisites: PET 3120 (may be taken concurrently)

PET 3127  PGA Prep 3  1 credits
PGA Prep 3 includes Level 2 part 1 of the PGA/PGM program materials and work experience activities. General overview of required PGA materials included in preparation for the PGA of America checkpoint 2. Includes theory, application, business practices and principles related to the golf industry and preparation for PGA checkpoint 2.
Prerequisites: PET 3125

PET 3128  PGA Prep 4  1 credits
PGA Prep 4, a continuation of Level 2 of the PGA/PGM program materials and work experience activities. General overview of required PGA materials included in preparation for the PGA of America checkpoint 2. Includes theory, application, business practices and principles related to the golf industry and preparation for PGA checkpoint 2.
Prerequisites: PET 3127 (may be taken concurrently)

PET 4126  Golf Practicum  3 credits
PGM concentration students enhance golf instruction skills by working with non-majors under the supervision of a master instructor. Special emphasis on golf etiquette and swing.

PET 4129  PGA Prep 5  1 credits
PGA Prep 5 is a general overview of required PGA materials included in preparation for the PGA of America checkpoint 3. Includes theory, application, business practices and principles related to the golf industry and preparation for PGA checkpoint 3.
Prerequisites: PET 3128

PEO 3124  Director of Golf Instr. Oper.  2 credits
Advanced study of instructional operations focusing specifically on golf instruction, including golf academies, program development, and entrepreneurial thinking. The physics of a proper golf swing technique and how to train others to teach that technique.
Prerequisites: PET 3128 (may be taken concurrently)

PET 1931  ST: Physical Activity  1 to 3 credits
An introductory course designed to provide the student with foundational knowledge and experiences in physical activity related to the improvement in personal fitness.

PET 2044C  Exerc Science & Injury Manag.  3 credits
Overview of health topics that relate to exercise science and injury management. Explores a variety of related health professions to assist students in making a more informed career choice.

PET 2081  Wellness College Experience  2 credits
Introduces methods to improve lifestyle habits effecting stress management, coping skills, fitness and diet. Explores gender, cultural, and ethnic differences, and relates how wellness is influenced by attitudes and beliefs.

PET 2930  Selected Topics: Human Perform  1 to 4 credits
Current concepts, selected problems or issues pertaining to Human Performance are examined by pre-program majors. The topics vary according to recent developments in Human Performance and/or Athletic Training. Course may be repeated for different topic areas.

PET 3084C  Personal Fitness & Wellness  3 credits
A study of personal fitness and wellness concepts. Students evaluate their own personal fitness level and provide opportunities to develop and improve their personal fitness and wellness lifestyle. Fee Required

PET 3613C  AT Practice I  3 credits
First of four-course series examining contemporary athletic training practice in a variety of health care settings. Learners analyze cases across the lifespan utilizing the clinical decision-making model and a problem- based learning process.
Prerequisites: ENC 1102 for level UG with min. grade of C

PET 3614C AT Practice II  3 credits
Second of four-course series examining contemporary athletic training practice in a variety of health care settings. Learners analyze cases across the lifespan utilizing the clinical decision-making model and a problem-based learning process. Prerequisites: PET 3613C and PET 3177C Corequisites: APK4110L Fee Required

PET 4050 Hlth,Safety,Nutri & Mot Ski  3 credits
Prepares teacher candidates to plan developmentally appropriate motor activities, to apply sound health services, to create safe and healthy environments, and to understand the components of good nutrition for both typically and atypically developing young children.

PET 4619C AT Practice III  4 credits
Third of four-course series examining contemporary athletic training practice in a variety of health care settings. Learners analyze cases across the lifespan utilizing the clinical decision-making model and a problem-based learning process. Prerequisites: PET 4614C

PET 4629C AT Practice IV  4 credits
Last of four-course series examining contemporary athletic training practice in a variety of health care settings. Learners analyze cases across the lifespan utilizing the clinical decision-making model and a problem-based learning process. Prerequisites: PET 4619C

PET 4670 HP Clinical Practice I  3 credits
Ten-week full-time, certified athletic trainer supervised, clinical experience applying concepts of examination, evaluation, diagnosis, prognosis, and intervention in direct patient/client care. Prerequisites: PET 3614C

PET 4671 HP Clinical Practice II  1 credits
Sixteen-week full-time, certified athletic trainer supervised, clinical experience applying concepts of examination, evaluation, diagnosis, prognosis, intervention, and program development in direct patient/client care. Prerequisites: PET 4619C and PET 4670

PHH 3050 Phi: History Texts Methods I  3 credits
Grounds philosophy majors in four classic philosophical methodologies taught through primary texts: categorical and propositional logic, Socratic dialectic, Thomistic disputation, and Cartesian radical doubt. Prerequisites: ENC 1101 and ENC 1102

PHH 3050L Phi:History Texts Methods Lab  1 credits
Companion course to PHH 3050 Philosophy: History, Texts, Methods I. Students will perform the philosophical methods of that course through logic problems, written, and oral exercises. Prerequisites: ENC 1101 and ENC 1102 Corequisites: PHH3050

PHH 3103 Ancient Greece  3 credits
Study ancient Greek notions about, reason, political justice, and the human self, primarily as they appear in philosophy, but also with reference to epic and dramatic literature of the time. Prerequisites: ENC 1102 for level UG with min. grade of C

PHH 3501 Marx, Freud and other Heretics  3 credits
Examines counter-traditional figures in Philosophy from the nineteenth-century. Thinkers will include Sade, Nietzsche, Marx, Freud and others. Emphasis upon the historical roots of resistance within contemporary Western philosophy. Prerequisites: ENC 1101 and ENC 1102

PHH 3801 Self in Eastern Philosophy  3 credits
A study of the human self from a south and east Asian point of view. Topics include the nature of the self, the structure of consciousness, the self in relation to the external world to the Greater Self.

PHH 3930 Special Topics in Philosophy  3 credits
This course will cover a special topic in Philosophy. See instructors course description for detail. Topic varies by semester, may be repeated. Prerequisites: ENC 1102 for level UG with min. grade of C

PHH 3931 SH History of Philosophy  3 credits
Covers a Philosophical era, movement or theme, taking into account the connection between ideas and their historical context. Topic varies by semester, may be repeated. Prerequisites: ENC 1101 and ENC 1102

PHH 4051 Phi: History Texts Methods II  3 credits
Grounds major in five modern philosophical methodologies, taught through primary texts: Empiricism and Positivism, Kantian critique, Hegelian and other dialectics, anti-systematic and literary methodologies, and phenomenology. Prerequisites: PHH 3050

PHH 4051L Phi:History Texts MethodsII Lab  1 credits
Companion course to PHH 4051 Philosophy: History Texts and Methods II. Students will perform the philosophical methods of that course through logic problems, written, and oral exercises. Corequisites: PHH4051

PHH 4450 Hume, Kant and Rousseau  3 credits
Provides detailed analysis of the works of three of the figures who were most central to the formation of enlightenment thinking and the philosophical schools that followed: David Hume, Immanuel Kant, and Jean-Jacques Rousseau. Prerequisites: ENC 1101 and ENC 1102

PHI 2000 Introduction to Philosophy  3 credits
Introduction to the various key philosophical orientations, thinkers, and topics which have evolved during the history of humankind. At least 6,000 words of graded written work are required. (Gordon Rule) Prerequisites: ENC 1101 for level UG with min. grade of C

PHI 2016 Philosophy through Film  3 credits
Using films and readings, the course explores a number of core problems in philosophy such as: personal identity, the existence of other minds, free-will and determinism, reality vs. appearances, human suffering the existence of God, and the role of technology.

PHI 3106 Principles of Rhetoric & Argument  3 credits
Introduction to the formal principles of argumentative discourse, both logical and rhetorical, and application of those principles to the tasks of critical reading and constructing sound arguments. Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C
PHI 3130 Logic and Disputation 3 credits
Introduction to categorical and propositional logic, argumentative fallacies, and the structure of arguments.

PHI 3223 Philosophy Human Communication 3 credits
The philosophical foundations of thinking, speaking, and writing: the nature and structure of human knowing; the mediation of intersubjective relations through spoken language; and the fixing of human experience in texts.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

PHI 3670 Ethics in Theory and Practice 3 credits
The course will cover major ethical ideas and theories from a philosophical perspective with a special focus on applying those ideas to concrete issues and problems.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

PHI 3720 Faith and Reason 3 credits
Study philosophy of religion, focusing on the question of the relationship and possible conflict between religious faith and philosophical reason.
Prerequisites: ENC 1102 for level UG with min. grade of C

PHI 3930 Special Topics in Philosophy 3 credits
This course will cover a special topic in Philosophy. See Instructors course description for details.
Prerequisites: ENC 1102 for level UG with min. grade of C

PHI 3941 Philosophy Internship 1 to 3 credits
Internship working in a career field that allows for the practical implementation of philosophical training. Students may elect to take up to 3 hours of internship for credit.

PHI 4005 Directed Independent Study 3 credits
Individualized study under the direction of a faculty member.

PHI 4938 Capstone Seminar in Philosophy 3 credits
Seminar in which majors engage the history of philosophy and demonstrate advanced performance of academic philosophy via examination on core texts and the production of a senior thesis.
Prerequisites: PHH 4051

PHH 3351 Philosophy of Human Rights 3 credits
An advanced introduction to classical and contemporary philosophical arguments and problems involved in human right discourses.
Prerequisites: ENL 1101 and ENL 1102

PHP 3786 Existentialism 3 credits
Covers the Existentialist movement in nineteenth and twentieth century Europe which focuses on the analysis of concrete human existence, the self, finitude, freedom, and the ethical and psychological dilemmas of nihilism.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

PHP 4930 Major Figures in Philosophy 3 credits
A semester-long intensive study of a single philosopher or thematically linked group of philosophers whose work significantly repositions major philosophical dynamics. Figures studied will vary; course may be repeated once with change of content. 9 hours of PHH, PHI or PHP courses needed as prerequisite or permission of instructor.

PHP 3106C Integrated Human Anat Neuro I 3 credits
Students are led through an in-depth study of human anatomy, focusing on the musculoskeletal and neuromuscular systems. Anatomical histology, cytology, embryology, anatomical/neuropathological changes through the lifespan and applications to health care are investigated.

PHP 3156C Physio Dimensions Human Actvty 3 credits
Emphasizes the understanding and application of knowledge regarding human cardiopulmonary, neuromuscular and metabolic responses to exercise and adaptations as a result of chronic exercise training in well and non-well population.

PHP 3176C Movement Science I 8 credits
Students explore the six foundational sciences in which the practice of physical therapy is grounded. Content focuses on the study of the anatomical, biochemical, behavioral, biomechanical, physiological and developmental aspects of movement science. ~ Admission to the HP/AT Programs, or permission from the Program Director.

PHP 3177C Movement Science II 5 credits
Studies and applies anatomical, biochemical, behavioral, biomechanical, physiological and developmental aspects of movement science.
Prerequisites: PHP 3176C

PHP 3363C Intro to Athletic Training 3 credits
This course focuses on the basic overview of the profession of Athletic Training and is designed as a preparatory course for the future health care provider interested in pursuing a career as a certified athletic trainer.

PHP 3902 Comm-Based Exper Hlth Care II 1 credits
Students observe health care or human service professional(s) in his/her work setting. Experience is based on individual student-identified learning objectives and self-evaluation of experiences.
Prerequisites: PHP 3901

PHP 4008 Topics in Physical Therapy II 1 credits
Provides an in-depth look at current issues which have a significant bearing on the delivery of physical therapy today and in the future.
Prerequisites: PHP 3007

PHP 4107C Integrated Human Anat Neuro II 5 credits
Students are led through in-depth study of body systems. Anatomical and neuropathological changes through the lifespan and applications to health care practice will be emphasized.
Prerequisites: PHP 3106C

PHP 4108C Integrate Human Anat Neuro III 3 credits
Students are led through an in-depth study of human neuroanatomy and neurophysiology. Changes through the lifespan and applications to health care practice will be emphasized.
Prerequisites: PHP 4107C

PHP 4123C Biomech Dimensions Human Mvmt 3 credits
Students study the mechanical and neuromuscular components of human motion. Students learn both normal movement and the effects of pathological conditions on movement. Lifespan developmental changes are studied.
Prerequisites: PHP 3106C

Corequisites: PHT-4107C
PHT 4146 Lifespan Develop Across Domain 3 credits
Explores the dimensions of development across the lifespan. Development across domains for each age group is examined within the context of family and culture with attention paid to individual differences and variations in development.

PHT 4262C Skills PT Exam & Intervention 6 credits
Students learn basic patient examination, intervention and data collection skills necessary for patient evaluation and development of a plan of care. Prerequisites: PHT 4123C and PHT 4108C

PHT 4903 Comm-Based Exper Hlth Care III 1 credits
Students observe a health care or human service professional(s) in his/her work setting. The experience is based on individual student-identified learning objectives and self-evaluation of experiences. Prerequisites: PHT 3902

PHT 4931 Selected Topics 1 to 4 credits
Current concepts, selected problems or issues pertaining to Physical Therapy are examined. The topic varies according to recent developments in Physical Therapy. Course may be repeated for different topic areas.

PHT 5016 Prof Writing & Lit. Review 2 credits
Introduction to graduate writing and literature review within the context of physical therapy.

PHT 5109C Movement Science Foundations I 8 credits
Students explore the six foundational sciences in which the practice of physical therapy is grounded. Content focuses on the study of the anatomical, biochemical, behavioral, biomechanical, physiological and developmental aspects of movement science.

PHT 5205C Intro to PT Practice 2 credits
Focuses on the overview of the profession of Physical Therapy and provides an introduction to basic physical therapy patient/client care skills. Corequisites: PHT5109C

PHT 5353 MDP I: Intro to Pharm & Imaging 2 credits
Introduce basic principles of diagnostic imaging and pharmacology related to physical therapy practice. These principles are applied at an introductory level to each system of the human body.

PHT 5511 Professional Seminar I 2 credits
Students have the opportunity to explore issues related to professional responsibilities, communication, in preparation for the first full-time clinical experience. and behavior. Included is the initial 160 hours of clinical experience. Prerequisites: PHT 5726C

PHT 5615 Foundations Independent Rsch 1 credits
An in-depth examination of different types of health care research and critical review of physical therapy and related health care research literature. Students explore roles and responsibilities as participants in and contributors to research. Prerequisites: HSC 4732

PHT 5726C Integrated Clinical Practice I 6 credits
Explores areas of physical therapy screening, examination, diagnosis, and intervention through small group, problem-based case study and clinical practice laboratories.

PHT 5727C Integrated Clinical Pract II 7 credits
Explores progressively more complex areas of physical therapy screening, examination, diagnosis and intervention through small group, problem-based case study and clinical practice laboratories. Prerequisites: PHT 5726C

PHT 5822 App PT-Clinical Experience I 1 credits
First full-time, physical therapist supervised, clinical experiences applying concepts of examination, evaluation, diagnosis, prognosis, and intervention in direct patient care. Prerequisites: PHT 6396C for level GR with min. grade of B

PHT 5860 Introductory Clinic Experience 1 credits
Eighty hours of part-time clinical experience applying basic concepts of communication, examination, intervention, and patient care skills, supervised by a licensed physical therapist. Prerequisites: PHT 5109C

PHT 5906 Independent Study I 1 to 2 credits
Initial phase of an intensive, independent, focused area of study. In this initial phase, the student identifies an area for intensive focus and designs a faculty approved learning experience that meets the student's need(s). Prerequisites: PHT 6607 and PHT 6396C

PHT 5971 Thesis Research I 1 to 2 credits
Students are guided through the process of developing an introduction, rationale, and research question for investigation for a research thesis. Successful completion of this course results in an approved research question with supporting written documentation. Prerequisites: PHT 6607 and PHT 6396C

PHT 6009 MDP II: Diagnostic Testing 3 credits
Students learn to integrate the results from medical screening and diagnostic tests into physical therapy practice, and recognize when to refer to other health care professionals.

PHT 6026 PDSI: Intro to Physical Therapy 2 credits
Explores professional, legal, ethical, and management aspects of development as physical therapy professionals. Selected aspects of personal development are considered. Students explore and apply concept of mentoring by completing a 1:1 mentoring experience.

PHT 6373 Geriatric Physical Therapy 3 credits
Geriatric physical therapy including screening, examination, evaluation, diagnosis, prognosis, plan of care, intervention, prevention, and wellness is investigated. Normal and pathological aspects of aging are examined. Permission of instructor is required.

PHT 6393C Mvmt Science Foundation II 8 credits
Students continue exploration of six foundational sciences in which the practice of physical therapy is grounded. Content focuses on study and application of anatomical, biochemical, behavioral, biomechanical, physiologial and developmental aspects of movement science. Prerequisites: PHT 6109C

PHT 6394C Physical Therapy Practice I 4 credits
Further develops basic knowledge of physical therapy examination procedures and acquisition of skills related to physical therapy interventions including the use of physical agents. Students participate in laboratory activities and discussion of patient cases. Prerequisites: PHT 6026 for level GR with min. grade of B and PHT 5109C for level GR with min. grade of B and PHT 6026
PHT 6507 PDS V: Medical Spanish for PT 1 credits
This course is designed to enhance the student's communication skills and clinical effectiveness when working with Spanish speaking patients and clients in the physical therapy setting.

PHT 6512 Professional Seminar II 2 credits
Emphasizes leadership and career development, including investigation of employment strategies, obtaining professional license, clinical teaching opportunities, and developing and presenting professional and staff development programs. Components of administration of a physical therapy service are investigated.
Corequisites: PHT6729C

PHT 6527 PDS IV: Mgmt Leadership/Entrep 3 credits
Explores professional, legal and ethical aspects of development as physical therapy professionals. Students synthesize leadership and management competencies to plan and implement a simulated interdisciplinary entrepreneurial venture.
Prerequisites: PHT 6412 for level GR with min. grade of B and PHT 6413 for level GR with min. grade of B
Corequisites: PHT6398C

PHT 6528 Sem IV-Legal Ethical Consider 3 credits
Students examine ethical decision making models and apply them to common issues in interdisciplinary health care. Legal aspects of practice at the federal, state, and local levels are investigated.
Prerequisites: PHT 6527 for level GR with min. grade of B

PHT 6529 Sem V-Prep for Profession 1 credits
This seminar course investigates aspects of entering the physical therapy profession including preparation for the qualifying examination, licensure, negotiating employment, career development and consultation.
Prerequisites: PHT 6528 for level GR with min. grade of B

PHT 6606 App PT Critical Inquiry 3 credits
Introduction to qualitative and quantitative research designs for health professions, analysis of data, critical evaluation of research, and proposal writing. Physical Therapy students begin selection of either the thesis or independent study option.

PHT 6607 App PT-Applied Crit Inquiry 3 credits
Physical Therapy students engage in critical analysis of physical therapy and related health care research, use computerized data analysis, and develop supporting rationale for thesis or independent study option decision.
Prerequisites: PHT 6606 for level GR with min. grade of B

PHT 6728C Integrated Clinical Pract. III 5 credits
Explores progressively more complex areas of physical therapy screening, examination, diagnosis, and intervention through small group, problem-based case study and clinical practice laboratories.
Prerequisites: PHT 5727C

PHT 6729C Integrated Clinical Pract. IV 6 credits
Explores complex areas of physical therapy screening, examination, diagnosis, and intervention through small group, problem-based case study and clinical practice laboratories.
Prerequisites: PHT 6728C

PHT 6822 App PT - Clinical Education I 3 credits
Initial six-week full time clinical experience applying concepts of examination, evaluation, diagnosis, prognosis and intervention in direct patients care supervised by a licensed physical therapist.
Prerequisites: PHT 6396C
Corequisites: PHT6397C

PHT 6823 Clinical Internship II 1 credits
Four-week clinical experience emphasizes student use of physical
therapy evaluation, treatment planning and intervention strategies. Students work under direct supervision of a licensed physical therapist.
Prerequisites: PHT 6728C

PHT 6824 Clinical Internship III  4 credits
Eight-week experience in a physical therapy setting requires students to apply previously learned concepts in management of patients/clients in a continuum of care. Students work under direct supervision of a licensed physical therapist.
Prerequisites: PHT 6823 and PHT 6729C

PHT 6825 Clinical Internship IV  4 credits
Eight-week experience in which students practice with increasing independence in patient/client examination, intervention, and teaching while developing supervisory, case management, and outcome assessment skills. Students work under direct supervision of a licensed physical therapist.
Prerequisites: PHT 6824 and PHT 6729C

PHT 6906 App PT I: Independent Study I  3 credits
Students are guided through the process of developing an introduction, rationale, and research question for an independent research project; successful completion results in an approved research question with supporting written documentation.
Prerequisites: PHT 6607 and PHT 6396C

PHT 6907 App PT II: Independent Study II  2 credits
Second phase of independent research process; conducts a review of literature, develops methods section of project, and successfully defends the research proposal with approval of Independent Research Committee.
Prerequisites: PHT 6906

PHT 6908 Independent Study III  2 to 3 credits
Final portion of independent focused study begun in Independent Study I and II. Culminates in scholarly, reflective paper and portfolio that examines the process and outcomes. Student presents an oral summary of work.
Prerequisites: PHT 6398C for level GR with min. grade of S and PHT 6907 for level GR with min. grade of S

PHT 6909 Independent Study IV  1 credits
Final portion of independent, focused study begun in Independent Study I, II, and III. Culminates in scholarly, reflective paper and portfolio that examines the process and outcomes. Student presents an oral summary of work.
Prerequisites: PHT 6729C and PHT 6808

PHT 6931 Selected Topics  1 to 4 credits
Current concepts, selected problems or issues pertaining to Physical Therapy are examined. The topics vary according to recent developments in Physical Therapy. Course may be repeated for different topic areas.

PHT 6941 App PT-Clinical Education II  3 credits
Second six-week full time clinical experiences applying concepts of examination, evaluation, diagnosis, prognosis, and intervention in direct patient care supervised by a licensed physical therapist.
Prerequisites: PHT 6398C for level GR with min. grade of B Fee Required

PHT 6942 Clinical Education III  3 credits
Final six-week full time, clinical experiences applying concepts of examination, evaluation, diagnosis, prognosis, and intervention in direct patient care supervised by a license physical therapist.
Prerequisites: PHT 6398C

PHT 6946 App PT-Clinical Residency  8 credits
Sixteen-week full time, physical therapist supervised, clinical residency emphasizes student demonstration of competency in physical therapy patient/client examination, evaluation, diagnosis, prognosis, and intervention strategies and includes management and peer/patient/family teaching. ~ Effective 201005, course replaced with PHT 7946
Prerequisites: PHT 6399C and PHT 5906 OR PHT 5971
Corequisites: PHT6529
Fee Required

PHT 6950 Geriatric PT Project  3 credits
This course consists of a student developed, instructor approved, project relevant to current geriatric physical therapy practice in the area of program development or outcomes research.

PHT 6971 App of PT Independent Research  3 credits
Initial phase of an intensive, independent, focused area of study; identifies an area for intensive focus and designs a faculty approved learning experience that meets the student's development need(s).
Prerequisites: PHT 6607

PHT 6972 Independent Research II  2 credits
Applied portion of intensive, independent, focused process of study begun in Independent Study I; completion requires a successful progress review by the Independent Study Committee.
Prerequisites: PHT 6971

PHT 6973 Thesis Research III  2 to 3 credits
Final phase of this process. Student develops and completes conclusion and discussion sections of project and satisfactorily passes oral defense phase. Project culminates in final, deposited research paper. ~ Effective 201005, course replaced with PHT 7973
Prerequisites: PHT 6398C for level GR with min. grade of S and PHT 6972 for level GR with min. grade of S

PHT 6974 Thesis Research IV  1 credits
Final phase of thesis process. Student develops and completes conclusion and discussion sections of project and satisfactorily passes oral defense phase. Project culminates in final, deposited research paper.
Prerequisites: PHT 6729C and PHT 6973

PHT 7070 MDP IV: Diagnostic Imaging  3 credits
Examine the application of diagnostic imaging in the practice of physical therapy. Students examine criteria and indications for the use of diagnostic imaging and practice the interpretation of these images within the scope of physical therapy practice.
Prerequisites: PHT 5353

PHT 7352 MDP III: Applied Pharm for PT  3 credits
Enhances the student's critical thinking skills in the principles of pharmacology within the scope of physical therapy practice, with an emphasis in pharmacotherapeutics, pharmacokinetics, and the properties of drug classes.

PHT 7399C Physical Therapy Practice VI  2 credits
Serves as a culminating experience examining contemporary physical therapist practice in a variety of health care settings. Students analyze case examples as they relate to current professional issues and practice guidelines for physical therapy practice.
Prerequisites: PHT 7529
Corequisites: PHT 7946

PHY 7529 PDS VII-Prep for Profession 2 credits
Investigates aspects of entering the physical therapy profession including preparation for the qualifying examination, licensure, negotiating employment, career development, and consultation.
Prerequisites: PHT 7528
Corequisites: PHT 7946

PHY 7908 Independent Study III 2 credits
Third phase of independent research process; conducts data collection and management phase of the project, and initiates data analysis with approval of Independent Research Committee.
Prerequisites: PHT 6907

PHY 7946 App Pt-Clinical Education IV 6 credits
Twelve-week full time clinical experience emphasizing student demonstration of competency in physical therapy patient/client examination, evaluation, diagnosis, prognosis, and intervention strategies and includes management and peer/patient/family teaching supervised by licensed physical therapist.
Prerequisites: PHT 7390C
Corequisites: PHT 7529

PHY 7973 Independent Research III 2 credits
Further progression of intensive, independent, focused process of study begun in Independent Study I-II; completion requires a successful progress review by the Independent Study Committee.
Prerequisites: PHT 6972

PHY 2020 Conceptual Physics 3 credits
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today.

PHY 2048C General Physics w/Lab I 4 credits
First semester of a calculus-based two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity and magnetism) and laboratory for science, mathematics, and engineering students.
Prerequisites: MAC 2421 for level UG with min. grade of D OR MAC 2311 for level UG with min. grade of D
Fee Required

PHY 2049C Gen'l Physics w/Lab II 4 credits
Second semester of a calculus-based two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity and magnetism) and laboratory for science, mathematics, and engineering students.
Prerequisites: MAC 2422 for level UG with min. grade of D OR MAC 2312 for level UG with min. grade of D and PHY 2048C for level UG with min. grade of D

PHY 2053C College Physics w/Lab I 4 credits
Students study the nature of the physical world. Principles of classical mechanics, introduction to wave theory, heat and elementary thermodynamics are investigated. The curriculum is inquiry based and fully integrated with laboratory and/or field experiences which emphasize active learning strategies.
Prerequisite equivalent to MAC 1147 is acceptable.
Prerequisites: MAC 1147 for level UG with min. grade of D

PHY 2054C College Physics w/Lab II 4 credits
Students continue their study of the nature of the physical world in this course. Principles of electricity and magnetism, light and modern physics will be investigated. The curriculum is inquiry based and fully integrated with laboratory and/or field experiences which emphasize active learning strategies.
Prerequisites: PHY 2053C for level UG with min. grade of D

PHY 3221 Intermediate Mechanics I 4 credits
Classical Mechanics, Laws of Newton, Particles, LaGrangian, and Hamiltonian formalisms. First of a two semester sequence.
Prerequisites: PHY 2049

PHZ 2102 Problem Solving I 1 credits
Additional problems in mechanics. Designed to allow investigation of problems not covered in the general physics course.
Corequisites: PHY 2048C

PHZ 2103 Problem Solving II 1 credits
Additional problems in general physics based on calculus.
Corequisites: PHY 2049C

PLA 1003 Introduction to Law 3 credits
An overview of the US legal system, including courts, lawyers and related professionals in the criminal and civil systems. Examines the role of law in modern society as well as fundamental legal concepts and principles.

PLA 3203 Courtroom Techniques 3 credits
Advanced civil courtroom techniques, procedures and law. Topics include research, interviewing techniques, preparing and organizing courtroom materials, compiling documentary evidence, applying investigative procedures and taking effective courtroom notes.

PLA 3240 Alternative Dispute Resolution 3 credits
Overview of alternative methods of dispute resolution including mediation, arbitration, negotiations and appointment of a special master. Special emphasis is made on mediation due to its extensive application in the US, esp. Florida. Mock exercises required.

PLA 3273 Negligence and Tort Litigation 3 credits
Prepares the student to work with attorneys whose practice is based primarily on negligence and tort litigation. A basic review of the various torts and negligence is followed by procedures and rules for drafting and the courtroom. The Federal and State Rules of Civil Procedure will be covered at length.

PLA 3428 The Law of Contracts 3 credits
An examination of the formation and enforceability of legally binding contracts. Topics include protection of economic interests as a part of reciprocal exchanges, legal rules and regulations, duties and responsibilities, public policy concerns, and bargaining in the context of contract principles.

PLA 3433 Business Organizations 3 credits
Five primary areas of interest: corporations, partnerships, sole proprietorships, joint ventures and agency law. interest to best suit Students determine the organization or their clients' needs and prepare the appropriate forms for each. Agency law and its impact on each of these organizations are also discussed.

PLA 3572 Travel Law 3 credits
Overview of rights, remedies and rules of domestic and foreign traveler. Consumer rights, rules and laws regarding air travel, ground transportation, cruise ships, hotels, and rental cars in foreign or domestic ports, or while in international waters discussed.
PLA 3632 Condominium & Association Law 3 credits
A look at Florida condominium and association laws and regulations, including rights and responsibilities of owners, full time residents, renters and time share owners.

PLA 3634 Land Use and Ownership 3 credits
Topics relating to real property including public control over land use, easements, zoning and building regulations, environmental protection regulations, adverse possession, convenants, riparian rights, concurrent ownership, and estates.

PLA 3700 Ethics for Legal Assistants 3 credits
Introduction to ethical dilemmas faced by both legal assistants and attorneys. Ethical rules developed by the American Bar Association will identify methods for researching answers to ethical dilemmas through examples and group participation.

PLA 3733 Legal Technology 3 credits
Instructions and practice on computer programs common to law offices, including the creation of files and folders; document creation, editing and merger; spreadsheets; billing and calendar or "tickler" programs.

PLA 3763 Law Office Management 3 credits
Principles of organization and management, management styles, communications process, utilization of legal assistants, management of office employees, office environment, office systems, office functions, financial management, records management and ethical considerations.

PLA 3800 Family Law Issues 3 credits
Study of the law of family relations, including the study of separation, divorce, domestic violence, child neglect, paternity, adoption, custody and court procedures applicable to each. Ethical considerations are also discussed.

PLA 4116 Research and Document Drafting 3 credits
Practical approach to advanced level of research and writing in the legal profession. Student will utilize both manual and computer assisted research tools to locate legal authority and properly cite same. Writing exercises required. Student will take positions and cite legal authority supporting and opposing positions.

PLA 4530 Elder Law 3 credits
Overview of issues related to aging including age discrimination; nursing home/assisted living facility abuse or neglect; social security and other state or company related administered complaints; and probate health care issues.

PLA 4565 CLA Review Course 3 credits
Review of materials expected to appear on Certified Legal Assistant Examination including verbal and written communication skills; judgment and analytical abilities; ethics; human relations; legal terminology; legal research and substantive knowledge of the law and procedure.

PLA 4570 Globalization & the Rule of Law 3 credits
A study of the interconnectedness of law and a global society. Examines the rule of law and its impact on economic, social, cultural, environmental, political, governmental, and legal aspects of globalization. Examination of international agreements, claims, and actions.

PLA 4600 FL Trusts, Estates & Probate 3 credits
Document drafting regarding Florida estates, trusts, probate, wills, guardianships, etc.

PLA 4608 Probate Litigation 3 credits
Document drafting of general litigation of probate matters, e.g., will and trust contests, guardianship disputes, etc. Florida Rules of Probate Court and applicable Rules of Civil Procedure are examined.

PLA 4612 Real Estate Transactions 3 credits
Student will prepare documents and forms relating to commercial and residential real estate transactions including deeds; purchases and sales; leases; affidavits; condominium associations; title abstracts and insurance; and financing and funding principles.

PLA 4614 Real Estate Litigation 3 credits
Document drafting of real estate litigation matters e.g. foreclosure, liens, breaches, trespass, suits to quiet title; squatter's rights; and other violations. Florida and Rules of Civil Procedure examined.

PLA 4850 Am. Jurisprudence Capstone 3 credits
Current topics in the legal environment with comprehensive analysis and assessment of theoretical foundations and practical applications.

PLA 4913 Independent Research 1 to 3 credits
Research under direction of faculty member in area of legal studies.

PLA 4933 Special Topics Legal Studies 3 credits
Exploration of variety of issues in legal profession where topics vary from semester to semester.

PLA 4940 Internship 1 to 6 credits
Placement with agency for field experience.

POS 2041 American Nat'l Government 3 credits
An analysis of the basic principles and procedures of the American government with emphasis on current issues and trends to cultivate an understanding of the U.S. political processes.

POS 2112 State & Local Govt & Politics 3 credits
Through an analysis of the structure and function of state and local government, the social and political influences that shape them and the dynamics of their administrative processes, students gain an understanding of the U.S. American political processes.

POS 3043 American Political Institution 3 credits
An examination of the major institutions of government in the United States. A special emphasis will be placed on understanding how these institutions interact and the resulting outcomes of this interaction.
Prerequisites: ENC 1102

POS 3250 Political Communication 3 credits
Examines the inter-relationship between Political Science and Speech, with emphasis on how political leaders communicate in a democratic society.
Prerequisites: ENC 1102 for level UG with min. grade of C

POS 3270 Political Campaigns/Elections 3 credits
Examines political campaigns and elections in the U.S., focusing on the national level. Major topics include systems of political representation, political parties, campaign planning and management, campaign finance, and campaign ethics.
Prerequisites: ENC 1102 for level UG with min. grade of C
POS 3411 The Modern Presidency 3 credits  
The Presidency from the transformation of the office in the 1930's to the present. Special attention to the roles and responsibilities of modern presidents in domestic as well as international policy.  
Prerequisites: POS 2041 for level UG with min. grade of C

POS 3424 Legislative Process 3 credits  
An analysis of the leadership, organization, norms, and policy-making processes of the U.S. Congress, including Congressional-Executive relations, Elections, and Constituency relations.  
Prerequisites: POS 2041 for level UG with min. grade of C OR POS 3043 for level UG with min. grade of C

POS 3691 Law, Politics, and Society 3 credits  
An examination of how laws and legal processes interact with politics and culture in shaping policy understandings and outcomes.  
Prerequisites: ENC 1102

POS 4064 Intergovernmental Relations 3 credits  
An exploration of the concept of federalism and its implications for American government. A primary focus is placed on the interaction between different levels of government.  
Prerequisites: ENC 1102 and POS 2041 OR POS 2112 OR POS 3043 OR POS 3114 and POS 2041

POS 4072 Women in Politics & Govt 3 credits  
Overview and analysis of the variety and forms of women's roles in politics and government; consequences with respect to governing in a democracy and efficacy of women as public agents and citizens.  
Prerequisites: POS 2041 OR POS 2112

POS 4152 Urban Politics and Problems 3 credits  
An examination of urban politics and problems. Focuses particularly on the place of cities within a broader network of economic, social, spatial, and intergovernmental relations, as well as on the ways in which these networks affect cities' approaches to problem-solving.  
Prerequisites: ENC 1102

POS 4614 Constitutional Law 3 credits  
An examination of the constitutional basis of the American legal system. Particular attention is paid to the processes of judicial review with regard to key provision of the constitution. Students study seminal cases considered by the Supreme Court. This course is designed for upper division students considering attending law school. Division standing (junior or senior) is necessary to enroll in this course.  
Prerequisites: POS 2041 for level UG with min. grade of C OR POS 2112 for level UG with min. grade of C

POS 4734 ResMeth and Analysis in PolSci 3 credits  
An introduction to the tools necessary for conducting and interpreting political research. Quantitative and qualitative approaches will be discussed. Completion of General Education Mathematics Requirement.  
Prerequisites: ENC 1102

POS 4905 Independent Study 3 credits  
Independent study in political science under faculty supervision.  
Prerequisites: INR 3002 OR CPO 3002 OR POS 3112 OR POS 4002

POS 4911 Dir Research Admin and Policy 3 credits  
Student research in public administration and/or public policy under a faculty advisor.

Prerequisites: ENC 1102

POS 4931 Spec Topics in Political Sci. 3 credits  
Examination of a selected topic within political science. Topics may vary depending on instructor. Prerequisite: ENC 1102

POS 4936 Senior Seminar 3 credits  
Required integrative seminar for senior Political Science majors. Examines the contemporary political environment and visions of the political future.

POS 4941 Political Science Internship 3 credits  
Experiential learning through an internship at a department-approved public or not-for-profit organization.  
Prerequisites: ENC 1102

POT 3003 Political Theorists 3 credits  
Exploration of key theorists and themes in to good life. democracy, sovereignty, social justice, and political theory; topics include citizenship. 6,000 words of graded written work are required – Gordon Writing Rule course  
Prerequisites: ENC 1102

POT 3075 Culture and Politics 3 credits  
An examination of the interrelationship between culture and politics, with particular emphasis on the symbolic and material impacts of culture on policy making.  
Prerequisites: ENC 1102

POT 3501 Politics, Ethics, & Pol Theory 3 credits  
An examination of the conflicts between politics and ethics in contemporary pluralistic and bureaucratic environments. Focuses as well on the exigencies of public integrity and civic engagement in contemporary politics.  
Prerequisites: ENC 1102

POT 4074 Theories of Power 3 credits  
Examination of theories of power in the social sciences and the humanities, as well as the application of these theories to the interpretation of various political processes.  
Prerequisites: ENC 1102 for level UG with min. grade of C

POT 4932 Sp Topics-Politics/Humanities 3 credits  
Interdisciplinary examination of a selected topic within politics and the humanities. Topics may vary depending on instructor.  
Prerequisites: ENC 1102 for level UG with min. grade of C

PPE 4003 Psychology of Personality 3 credits  
Methods and findings of personality theories and evaluation of constitutional, biosocial and determinants of personality.  
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PSB 4002 Physiological Psychology 3 credits  
Gross/cellular neural and physiological components of behavior.Structure and function of the central and peripheral nervous systems and theories of brain functions.  
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)
PSB 4434 Neurochem, Pharmacol, & Behav 3 credits
The action of neurotransmitters, neuromodulators, and neuroactive drugs on behavior.
Prerequisites: PSB 4002

PSB 6244 Neurobiological Behavior 3 credits
Neurobiological structure for the assessment of behavioral disorders including brain anatomy, physiological and neurological diseases that precipitate behavioral disorders.

PSY 2012 General Psychology 3 credits
A broad survey of psychology with an emphasis on cognition, sensory and perceptual, social, personality, abnormal, psychobiology, historical systems motivation, learning and development is provided in this course.

PSY 3017 Experimental Psychology 3 credits
Designed as an in-depth examination of the basic principles of psychological evidence; coverage given to areas of learning, perception, physiological, social and cognition.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C

PSY 3213 Research Methods in Psych 3 credits
Logic of experimental design, concepts of control, ethical issues in the conduct of laboratory and applied research, and analysis of experimentally obtained data.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2122 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PSY 4604 History & Systems in Psych 3 credits
Review of the historical roots of modern psychological theories. In-depth consideration of the various schools of psychology, such as behaviorism, Gestalt, psychoanalysis, and phenomenological psychology.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PSY 4911 Internship in Psychology 3 credits
Applied practicum in community service agencies. Senior Standing with permission of instructor.
Prerequisites: CLP 4143 for level UG with min. grade of C and PSY 2012 for level UG with min. grade of C and PSY 3213 for level UG with min. grade of C and STA 2122 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PSY 4913 Directed Study 3 credits
Student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member.
Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PSY 4930 Special Topics 3 credits
This course will be an elective for Psychology major and minor. This course will provide the Psychology Program greater flexibility in responding to student needs and interests.
Prerequisites: PSY 2012 for level UG with min. grade of C and (PSY 3044 for level UG with min. grade of C OR PSY 3017 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C)

PSY 4990 Senior Seminar in Psychology 3 credits
Students will learn to consolidate, integrate and apply discipline specific knowledge to issues within Psychology and the Liberal Arts. Senior standing is expected. Students must complete at least 9 credit hours of 4000-level classes from the list of Required Courses for the Psychology Major before registering.
Prerequisites: PSY 2012 for level UG with min. grade of C and PSY 3213 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C and STA 2122 for level UG with min. grade of C and (PSY 3017 for level UG with min. grade of C OR PSY 3044 for level UG with min. grade of C)

PUP 3040 State & Local Public Policy 3 credits
An introduction to the analysis, administration, and politics of public policy at the state and local levels of government.
Prerequisites: ENC 1102 for level UG with min. grade of C

PUP 4004 Policymaking & Administration 3 credits
An examination of the analysis and politics of public policy, with attention to both the traditional tools of policymaking and contemporary efforts to reconcile the tensions between politics, policymaking, and ethics.
Prerequisites: ENC 1102

PUP 4013 Comparative Social Policy 3 credits
Examines the development, implementation, and evaluation of social policies in several national contexts, as well as the transnational and cross-cultural social policy issues posed by international labor migrants and refugees.
Prerequisites: ENC 1102

PUP 4206 Int'l Environmental Policy 3 credits
Examines the development and implementation of international environmental policies. Theoretical perspectives on problems of the international environment are applied to several major policy controversies.
Prerequisites: ENC 1102

PUP 4930 Special Topics-Public Policy 3 credits
Examination of a specific topic within public policy. Topics may vary depending on instructor. Prerequisites: prior completion of ENC 1002 with a minimum grade of C.

PUR 3000 Principles of Public Relations 3 credits
An introduction to the field and study of public relations. Explores the history of the profession, the nature of public relations, its established code of ethics, and the responsibilities and duties of public relations professionals.

PUR 3100 Public Relations Writing 3 credits
Addresses several common forms of public relations writing, including press releases, public service announcements, pitch letters, and newsletters. Students work with a local client (nonprofit organization or campus organization) so as they develop their writing skills, they are contributing to the good of our campus and our community.

PUR 3600 Public Relations Strategy 3 credits
This course addresses the theories and norms used in the selection of strategies. This course will encourage students to think from a
managerial, decision-making standpoint that focuses on planning and program development based on research findings. Prerequisites: PUR 3004 for level UG with min. grade of C OR PUR 3000 for level UG with min. grade of C

QMB 6603 Quantitative Methods in Bus 3 credits Introduction to basic quantitative tools used by managers to improve the decision making process in organizations, and the applications of these tools to real life problems. Quantitative methods covered include decision analysis, forecasting, network models, queuing, inventory models, and linear programming. Emphasis is on applications, concepts, and interpretation of results rather than theory and calculations. Students use a computer software package for model analysis. Prerequisites: QMB 6305

RED 4310 Early Literacy Learning 3 credits Prepares preservice teachers to understand the foundations of literacy and the learning principles and instructional strategies necessary to provide literacy instruction to emergent, novice, and transitional readers and writers.

QMB 3200 Economic & Business Stats II 3 credits Studies statistical methods for description of data, interval estimation and hypothesis tests, correlation and multiple regression analysis, analysis of variance, and analysis of qualitative data. The focus is on applications and interpretation. Students use a computer software package for analysis of data in course projects. Prerequisites: STA 2023 for level UG with min. grade of C and CGS 1100 for level UG with min. grade of C

RED 4511 Lit in Intermed & Mid Grades 3 credits Prepares preservice teachers to facilitate literacy learning for students who are beyond the primary grades. Students will develop an understanding of instructional strategies and materials appropriate for remedial, multicultural, and mainstream students, ways to promote literacy development across the curriculum including and theories of reading disabilities, develop with an emphasis on content area literacy.

QMB 3600 Intro to Management Science 3 credits Studies fundamental methods of management science; including decision analysis, forecasting, networking, queuing, inventory and linear programming models. The focus is on application of these models to production and operations management problems. Students use a computer software package to assist in case problem analysis. Prerequisites: STA 2023

RED 5147L Developmental Reading 3 credits Foundations of teaching reading K-12. Includes materials, methods, current practices, process of reading, theory, and procedures.

QMB 6305 Statistical Methods for Mgt 3 credits Develops the basic statistical tools used in quantitative analysis in business. Topics include descriptive statistics, interval estimation, hypothesis tests, correlation and regression analysis, analysis of variance and analysis of qualitative data. Emphasis is on applications, concepts and interpretation of results, rather than theory and calculations. Students use a computer software package for data analysis.

RED 6116 Found of Read Instr 3 credits Approaches, materials, and procedures in K-12 reading instruction, with emphasis on pertinent current research. Undergraduate introductory course in reading required as a prerequisite.

RED 6516 Corrective Reading in Classrm 3 credits Use of diagnostic and prescriptive procedures with individual and group reading instruction.

RED 6540 Assessment in Literacy 3 credits Sources of information for assessing literacy performance in the K-12 classroom. Emphasis on informal classroom assessments in reading that includes screening, diagnosis and progress monitoring.
REE 6735 Land Acquisition, Subdiv & Dev 3 credits
Acquisition of raw land; subdivision into sites; provision of utilities & services; financing; merging improved sites. Emphasis on design and development of residential communities.
Prerequisites: FIN 6406

REL 2306 Contemporary World Religions 3 credits
Exploration of the unity and diversity of religious traditions in a global context in order to understand the mutual interactions between religions and cultures. Emphasis on the role of religion in human values systems.

REL 3111 Religion in Film 3 credits
Examination of religious themes, images, symbols, and characters in various feature and short films.

REL 3112 Seven Deadly Sins 3 credits
Examines the human condition through the concept of sin from a variety of disciplinary perspectives: historical, religious, philosophical, literary.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

REL 3213 Hebrew Bible 3 credits
A literary/historical approach to the materials in the Hebrew Bible or Old Testament. Various genres of biblical literature will be studied, as well as the historical setting in which the text was produced.

REL 3241 New Testament 3 credits
A literary/historical approach to the materials in the New Testament. Various genres of biblical literature will be studied, as well as the historical setting in which the text was produced.

REL 3930 ST: Religion 3 credits
An upper division Religious Studies course on a topic indicated in the schedule.
Prerequisites: ENC 1101 and ENC 1102

RMI 3011 Risk Management Insurance 3 credits
Identification of various types of risks; principles underlying selection of appropriate means of handling risks, introduction to life, health, property, liability analysis of insurance as a principal means of managing and other areas of insurance, risk for individuals and commercial entities; organization operation of insurance companies.
Prerequisites: FIN 3403 for level UG with min. grade of C

RTV 3225 Video Workshop 3 credits
A course devised for students to gain experience in the production of television programs and video projects.

SCE 2840C Physical Science for Teachers 3 credits
Survey of the physical sciences including physics, chemistry, astronomy and geology. For non-science majors only.

SCE 4305 Comm Skills in Science Classroom 2 credits
Reading and communication skills important in understanding scientific literature and communicating findings to others.

SCE 4310 Science Methods 3 credits
Focuses on methods of planning, assessment and instruction for effective science and health education.
Prerequisites: EDG 3201 for level UG with min. grade of C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SCE 4320</td>
<td>Teach Methods Mid Grades Sci</td>
<td>3</td>
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<tr>
<td></td>
<td>Survey techniques and materials unique to science, grades 5-9. Not designed for high school certification purposes.</td>
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<tr>
<td>SCE 4330</td>
<td>Science Methods 6-12</td>
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<tr>
<td></td>
<td>Techniques and materials of instruction in middle and secondary school sciences.</td>
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<tr>
<td>SCE 4936</td>
<td>Senior Seminar: Science Ed</td>
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<td></td>
<td>Capstone course taken concurrently with the final internship. Trends and issues within the field of secondary education are examined from the perspective of the final internship experience. Corequisites: SCE4940</td>
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<tr>
<td>SCE 4940</td>
<td>Internship: Science Education</td>
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<td>One full semester of internship in a public or private school. In special program where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates for 9-12 semester hours. (S/U only) Corequisites: SCE4936</td>
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<tr>
<td>SCE 4941</td>
<td>Integr Field Exper: Science</td>
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<td>Semester long internship to observe and demonstrate effective teaching practices. Student will partially assume teacher role in selected schools. Student will be in 2-3 settings for a total of 12 weeks. Part of the course experience will be a 2 week experience teaching sound language learners. Prerequisites: EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C and RED 4350 for level UG with min. grade of C and SCE 4330 for level UG with min. grade of C and TSL 4520 for level UG with min. grade of C</td>
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<tr>
<td>SCE 5937</td>
<td>Special Topics in Science Ed</td>
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<td>Special topics which can be repeated when topics are not duplicated.</td>
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<tr>
<td>SCE 6337</td>
<td>Science Methods: High School</td>
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<td>Techniques and materials of instruction for teaching science in the high school classroom. Focus on strategies for teaching the older adolescent, curriculum adaptation for special needs and purposes, assessment of student learning, and familiarity with recent literature in the teaching of science.</td>
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<tr>
<td>SCE 6346</td>
<td>Science Methods: 6-12</td>
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<tr>
<td></td>
<td>Techniques and materials of instruction for teaching science in middle school and senior high school, addressing strategies for teaching adolescents, curriculum adaptation for special needs students, adaptations for LEP learners, and current literature for teaching science. Special emphasis on state and national standards.</td>
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<tr>
<td>SCE 6455</td>
<td>Trends in Science Instruction</td>
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<td>Analysis of modern curricular methods, materials and strategies used to present science as a process of inquiry.</td>
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<tr>
<td>SCE 6849</td>
<td>Capstone Sem:Environ Education</td>
<td>1-3</td>
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<td>Candidates will design and conduct a scholarly research project under the direction of the faculty advisor that integrates the principles, theories, and concepts of the core courses of the C &amp; I program and the student's concentration. Students may register for up to 2 additional hours in subsequent semester. Instructor permission required.</td>
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<tr>
<td>SCE 6945</td>
<td>Internship in Sci/Bio, 6-12</td>
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<td>The M.A.T. program internship is an opportunity to integrate theoretical knowledge from previous education courses with classroom experience to demonstrate behaviors specified in the Educator Accomplished Practices and the Florida Performance Measurement System. Admission to the MAT program or permission of instructor required.</td>
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<tr>
<td>SDS 6820</td>
<td>Intern. in School Counseling</td>
<td>3-6</td>
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<td>Field experience involving full time participation in all school counseling and guidance related activities in an elementary or secondary school; classroom guidance, individual and group counseling, assessment/evaluation, staffing, record keeping, etc. Prerequisites: MHS 6401</td>
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<tr>
<td>SDS 6830</td>
<td>Internship: School Counseling</td>
<td>3-6</td>
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<td>An immersion experience for students to assume and perform all the duties associated with the role of the professional school counselor. Focus will be on extending knowledge from previous courses into practice in the professional setting. Prerequisites: SCE4936</td>
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<tr>
<td>SLS 1108</td>
<td>Effective Learning Sci &amp; Math</td>
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<td>Introduction to skills required for science and mathematics courses. The topics include laboratory report documentation, searching scientific literature, writing laboratory reports, use of the graphing calculator, use of Excel for science calculations, graphing and analysis of data, general learning strategies such as note-taking and listing skills and relation of science and math to the FGCU student learning outcomes.</td>
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<tr>
<td>SOP 2770</td>
<td>Intro to Human Sexuality</td>
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<td>The biopsychosocial perspective will be used to examine the fundamentals of human sexuality and sexuality related issues to include the nature, variety and consequences of human sexual behavior. Prerequisites: PSY 2012 for level UG with min. grade of C</td>
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<tr>
<td>SOP 4004</td>
<td>Social Psychology</td>
<td>3</td>
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<td>Survey of methods, empirical findings, and theoretical interpretations in the study of individual behavior and group processes. Topics include persuasion, stereotyping, aggression, altruism, and social influence. Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C (and PSY 3017 for level UG with min. grade of C) OR PSY 3044 for level UG with min. grade of C</td>
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<tr>
<td>SOP 4714C</td>
<td>Environmental Psychology</td>
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<td>Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Prerequisites: PSY 2012 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C (and PSY 3017 for level UG with min. grade of C) OR PSY 3044 for level UG with min. grade of C)</td>
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<tr>
<td>SOP 4751</td>
<td>Psychology &amp; Law</td>
<td>3</td>
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<td>The purpose of the course is to study psychology and its interactions with the legal system. Psychologists have become increasingly involved in legal issues such as the prediction of violence, insanity, competency, jury selection and size, and the reliability of witnesses.</td>
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</table>
of people within an International environment with emphasis on local social service delivery systems. Students observe and compare and contrast traits in people from countries.

SOW 4314 Practice III: Case Management 3 credits
Approaches used by the generalist social worker to meet the service needs of the client. Case management with children and families, chronically mentally ill, developmentally and physically disabled, chronic substance abusers, and those in health care settings. Prerequisites: SOW 3322

SOW 4332 Practice IV 3 credits
Focuses on the role of the social worker in effecting change in the community and organizations. For community organizing, advocacy. Provides a basic introduction to tools and lobbying in the context of the social work change process. Social, political and economic factors that influence change in large systems will be discussed. Prerequisites: SOW 3322

SOW 4401 Social Work Research 3 credits
This course presents experimental research and program evaluation tools with emphasis on gathering data, operationalizing research and evaluative hypotheses, and analyzing, and interpreting research. Basic statistical applications and the use of statistical software are introduced. It is suggested that students take STA 2023; SYG 2000 or PSY 2012 before enrolling in this course. Prerequisites: STA 2023 and SOW 3102

SOW 4521 BSW Field Seminar 3 credits
Integrates theory and practice and provides an interactive venue for field related issues. Students are expected to demonstrate skills and knowledge related to their internship experience. Prerequisites: SOW 3322 and SOW 4060 (may be taken concurrently)

SOW 4522 BSW Integrative Senior Seminar 3 credits
The capstone course in the BSW program. Classroom and field learning are integrated. Students prepare to enter professional field of practice. Prerequisites: SOW 4521 and SOW 4060

SOW 4601 Issues in Health/Mental Health 3 credits
This course examines the impact of poverty on the health and mental health status of Americans and the role of social work in ameliorating that impact. The literature examining the socioeconomic factors in determining health status and access to health care will be reviewed. Comparison will be made with other developed nations. This semester particular emphasis will be placed on two recently released reports of the U.S. Public Health Service: Healthy People 2010 and The Surgeon General’s Report on Mental Health. Comparisons will be made with pending state and federal legislation. Social Work practice within health and mental health specialty area will be examined from contemporary perspectives and projections for the future. There will be opportunity to earn at least six hours community service through participation in a primary health care activity.

SOW 4643 Issues in Aging 3 credits
Examines the changing protrait of older persons and how aging is shaped by race, class, culture, gender, sexual orientation, physical and social environments, cohort experiences, and ageism.

SOW 4650 Child Abuse 3 credits
This introduction to child maltreatment course provides definitions of various types of maltreatment, characteristics of perpetrators and
maltreated children and indicators of child abuse and neglect. Child protection investigations, treatment, and the professional's role in a multidisciplinary team approach are also included.

SOW 4676 Loss and Bereavement 3 credits
Overview of loss and bereavement related to death, health, job or relationships. Examines the historical, cultural, social and legal aspects of death and bereavement.

SOW 4677 Vulnerable Populations 3 credits
Examines issues in vulnerable populations of interest to social service providers in Southwest Florida such as policy, practice, service delivery and community needs. Context varies with current conditions.

SOW 4700 Chemical Dependency 3 credits
Examines contemporary controversies surrounding social, psychological, and biological theories of substance abuse and treatment, analyzes the impact of these controversies on social service systems and presents implications for practice.

SOW 4724 Child Welfare 3 credits
Current issues about children and families in Southwest Florida including historical perspectives, and community needs for services in policy, practice, service delivery, daycare, public welfare, child abuse and neglect services, juvenile courts and ethics.

SOW 4901 Independent Study 3 credits
Individual Study by students under the direction of a faculty member. Topics vary and are usually selected on an individual basis.

SOW 6105 Human Beh in SocEnv I: Micro 3 credits
First of two required courses with content on the reciprocal relationships between human behavior, the impact upon one's health and social systems. Human developmental theories, i.e. psychological, social, biological, cultural and spiritual, across the life span are examined.

SOW 6106 Human Behav & SocEnv II: Macro 3 credits
Second of two required courses provides content on reciprocal relationships between human behavior and social systems with emphasis on groups, organizations, communities and relevant macro systems theories. Community development and global perspectives are also examined. Prerequisites: SOW 6105

SOW 6124 Psychopathology Clinical 3 credits
Explores the differential diagnostic process using the DSM IV-TR for assessing symptoms of major mental disorders. Examines concerns about reimbursement, and diverse clients. Fulfills statutory educational requirement for clinical licensure in Florida. Corequisites: SOW6616

SOW 6180 Community Organization 3 credits
Focuses on major comparative theories and methods of community organizing, knowledge and skills for advanced assessment, and intervention with neighborhoods, communities, and organizations. The impact of economic, political, and organizational policies on communities is examined. Prerequisites: SOW 6616 (may be taken concurrently)

SOW 6181 Grassroots Community Org 3 credits
The focus of this course is clinical community practice using strategies and tactics of grassroots community organizing within the values and ethics of empowerment practice with a multicultural perspective. Prerequisites: SOW 6626 and SOW 6235 and SOW 6532 and SOW 6305 and SOW 6105 and SOW 6106 and SOW 6306 and SOW 6405 and SOW 6106 and SOW 6236 and SOW 6533 and SOW 6383 and SOW 6180 (may be taken concurrently)

SOW 6235 Social Welfare and History 3 credits
An introduction to current and historical structure of social welfare policies and system, the historical development of social work profession and policies that form the foundation of social welfare from a local, state, national and international perspective.

SOW 6236 Social Policy Analysis 3 credits
Introduces the legislative process of law making, lobbying, and advocacy on the local and state level for populations with diminished access or economic influence; includes policy practice skills regarding economic, political and organizational systems. Corequisites: SOW6106

SOW 6305 Social Work Practice I 3 credits
Course is an introduction to foundation social work skills within the core values and ethics of the profession. Students acquire knowledge in communications skills, engagement strategies, assessment, initial intervention strategies and termination skills. Prerequisites: SOW 6105 (may be taken concurrently) OR SOW 6235 (may be taken concurrently)

SOW 6306 Social Work Practice II 3 credits
Identifies, analyzes, and implements empirically based interventions and practice theories designed to achieve client goals; evaluates program outcomes and practice effectiveness, and includes content on providing leadership for policies and services. Prerequisites: SOW 6305 and SOW 6106 (may be taken concurrently)

SOW 6344 Adv. Clinical Group Practice 3 credits
Prepares students for advanced clinical social work practice in group treatment settings. Presents evidenced-based interventions and skills for therapeutic group interventions and with diverse clients experiencing complex dilemmas. Prepares students for group interventions with greater depth, breadth, and specificity. Prerequisites: SOW 6611 (may be taken concurrently)

SOW 6369 Advanced Practice Seminar 3 credits
Students explore professional development needs, career opportunities, and specialized treatment techniques. Prerequisites: SOW 6616 and (SOW 6537 (may be taken concurrently) OR SOW 6571 (may be taken concurrently) )

SOW 6383 Administration I 3 credits
This course introduces the essential knowledge and skills needed to effectively manage social service units, agencies or organizations. Concepts of effective management will be discussed including leadership skills and style.

SOW 6384 Supervision and Training 3 credits
Examines philosophy, functions, principles and methods of supervision as well as staff development and training in diverse agency settings within the context of social work value and ethics. Emphasis is given to the knowledge and skills required to motivate and retain an effective multicultural workforce, to effectively supervise varying levels of staff, (volunteers, non-professionals, professionals, including clinical supervision), as well as program, teams, or agency units.
<table>
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<tr>
<th>Course Code</th>
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<th>Description</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>SOW 6306</td>
<td>Administration II</td>
<td>3</td>
<td>Students will learn strategic planning; designing and restructuring organizations; managing finances; managing multicultural workplaces and culturally competent programs; and program evaluation. The case method is used to apply theories to the practical administrative problems and to increase students' understanding of alternative ways to analyze and resolve problems.</td>
<td></td>
</tr>
<tr>
<td>SOW 6405</td>
<td>Research I: Methods</td>
<td>3</td>
<td>Introduces qualitative and quantitative scientific inquiry approaches to knowledge building for practice including problem formulation, data collection, methodology, data analysis and presentation of findings. Ethical issues in research are also examined.</td>
<td>SOW 6306 (may be taken concurrently)</td>
</tr>
<tr>
<td>SOW 6435</td>
<td>Research II: Practice Eval</td>
<td>3</td>
<td>Introduces advanced skills for program development and practice evaluation utilizing both qualitative and quantitative methods that are designed for evaluating their own practice, and improving policy and service delivery. Examines ethical issues related to conducting research with oppressed and vulnerable populations.</td>
<td>SOW 6616</td>
</tr>
<tr>
<td>SOW 6532</td>
<td>Field Education I</td>
<td>3</td>
<td>Introduces students to beginning integrated social work practice in an approved agency where they will have an opportunity to develop generic skills applicable to individuals, families, groups and communities. Students spend 275 hours or 18 hours per week at approved placement practice sites.</td>
<td>SOW6305</td>
</tr>
<tr>
<td>SOW 6533</td>
<td>Field Education II</td>
<td>3</td>
<td>Designed to allow students to practice within an empowerment oriented, ecological approach at a beginning generalist level, developing skills in working with individuals, families, groups and communities.</td>
<td>SOW 6306</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Field Instruction III</td>
<td>3</td>
<td>An advanced level social work practice course that provides students with specific skills applicable to individuals, families, groups and communities. These practice skills are based upon an ecological and empowerment oriented perspective that addresses biopsychosocial responses to environmental, social, and psychological stress. DSM-IV assessment is included.</td>
<td>SOW6616</td>
</tr>
<tr>
<td>SOW 6537</td>
<td>Field Education IV</td>
<td>3</td>
<td>During this semester students will continue to conduct multi-modal clinical, group, and community oriented assignments of increased complexity. They will continue to integrate classroom and practice learning through assignments.</td>
<td>SOW 6535</td>
</tr>
<tr>
<td>SOW 6554</td>
<td>Field Education IB - Part time</td>
<td>2</td>
<td>MSW students have an opportunity to apply second semester generalist social work practice skills to individuals, families, groups, and communities. Students spend 183 hours per semester or 12 hours per week at approved practicum sites.</td>
<td>SOW 6554</td>
</tr>
<tr>
<td>SOW 6555</td>
<td>Field Education IB - Part time</td>
<td>2</td>
<td>MSW students have an opportunity to apply second semester generalist social work practice skills to individuals, families, groups, and communities. Students spend 183 hours per semester or 12 hours per week at approved practicum sites.</td>
<td>SOW 6565</td>
</tr>
<tr>
<td>SOW 6565</td>
<td>Field Education IA - Part Time</td>
<td>2</td>
<td>Introduces students to beginning generalist social work practice in an approved agency where they will have an opportunity to develop basic skills applicable to individuals, families, groups and communities. Students spend 183 hours per semester or 12 hours per week at approved placement practicum sites.</td>
<td>SOW6305</td>
</tr>
<tr>
<td>SOW 6566</td>
<td>Field Education IIA -Part Time</td>
<td>2</td>
<td>In the Concentration Year (2nd year) MSW students have the opportunity to apply specialist skills in clinical community social work practice (CCP) to individuals, families, groups, and communities. Students spend 183 hours per semester or 12 hours per week at approved practicum sites.</td>
<td>SOW 6616</td>
</tr>
<tr>
<td>SOW 6570</td>
<td>Field Education IIB</td>
<td>2</td>
<td>In the second semester of the Concentration Year (2nd Year), MSW students have an opportunity to apply specialist skills in clinical community social work practice (CCP) to individuals, families, groups and communities. Students spend 183 hours per semester or 12 hours per week at approved practicum sites.</td>
<td>SOW 6566</td>
</tr>
<tr>
<td>SOW 6571</td>
<td>Field Education IIC</td>
<td>2</td>
<td>In the Concentration Year (2nd Year), MSW students have an opportunity to apply specialist skills in clinical community social work practice (CCP) to individuals, families, groups and communities. Students spend 183 hours per semester or 12 hours per week at approved practicum sites.</td>
<td>SOW 6570</td>
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<tr>
<td>SOW 6611</td>
<td>Adv. Clin. Pract.: Fam/Couples</td>
<td>3</td>
<td>Prepares students for advanced clinical social work practice with families and couples. Evidence-based treatment models, such as structural, strategic, solution-focused and cognitive behavioral, for working with diverse families and couples and populations-at-risk, are explored.</td>
<td>SOW 6616</td>
</tr>
<tr>
<td>SOW 6616</td>
<td>Adv. Clin. Practice with Ind.</td>
<td>3</td>
<td>Prepares students for advanced clinical social work practice with individuals by examining evidenced based theories clinical diagnostic impressions, treatment planning and outcome measures. Provides advanced skills for clinical intervention with diverse populations.</td>
<td>SOW 6561</td>
</tr>
<tr>
<td>SOW 6629</td>
<td>Human Diversity &amp; Oppression</td>
<td>3</td>
<td>Introduction to human diversity and oppression, including structural and critical analysis. Critical empowerment, strength perspective plus commitment to advocating with clients for social</td>
<td>SOW6124</td>
</tr>
</tbody>
</table>
SOW 6641  SocWk Practice w/Older Persons  3 credits
Focuses on social work practice with older persons individually, with families, in groups and in the community. Theoretical perspectives relevant to the aging process will also be reviewed.

SOW 6655  SWK Practice with Children  3 credits
Addresses clinical community practice with children in a variety of settings, such as family agencies, child guidance, child welfare agencies, protective services, schools, and medical settings. Course content will include assessment and intervention with children focusing on cultural competency skills for working on problems affecting children, such as parenting, child abuse and neglect, trauma, school performance, etc.

SOW 6900  Independent Study  1 to 3 credits
A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by the Chairperson. Admission to MSW program and Departmental approval required.

SOW 6931  Special Topics in Social Work  3 credits
Examines advanced topics in social work practice and theory. The specific topic varies to meet the needs of current students and practitioners. Restricted to MSW students; others by departmental approval.

SPA 4000  Commun Disorders in Pub Schls  3 credits
An examination of the speech, language and hearing problems affecting school age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders.

SPC 1017  Fundamentals of Communication  3 credits
Introduces students to the full range of communication from interpersonal communication and small group communication to public speaking. Students explore fundamental communication concepts and topics and develop skills to use these principles to work.

SPC 1595  Intercollegiate Speech Debate  1 credits
Competitive forensics participation for students with limited experience. May be repeated for a maximum of 4 credit hours. Prerequisite: Consent of Instructor.

SPC 1596  Forensics Activity  1 credits
Noncompetitive forensics participation for students with limited experience. May be repeated for a maximum of 4 credit hours.

SPC 2023  Public Speaking  3 credits
Instruction and practice in effective public speaking. Includes practical experience in speech composition, delivery, and critique.

SPC 3210  Theories of Human Communicatio  3 credits
Examines human communication theories in a variety of areas including: interpersonal, nonverbal, information processing, verbal, intrapersonal, message production, group and public communication.

SPC 3301  Interpersonal Communication  3 credits
Basic characteristics of the systems and symbolic interaction approaches to interpersonal communication, consideration of interpersonal needs, self-disclosure, listening, perception, attraction, and social conflict. Prerequisites: SPC 3210 for level UG with min. grade of C

SPC 3330  Nonverbal Communications  3 credits
Examines nonverbal communication theory and behavior including the areas of kinesics, proxemics, haptics, object language, paralanguage, and chronemics.

SPC 3350  Listening Theory  3 credits
Examines the full range of listening theory and practice from the discriminative level all the way up to the metacognitive level. Covers theories of and approaches to interpersonal, empathic, academic, therapeutic, and appreciative listening.

SPC 3360  Interviewing  3 credits
Teaches the principles of interviewing both from the interviewer and interviewee perspectives, including how to structure an interview, question development, and understanding the interviewing process. Practice in a variety of types of interviews including employment, survey, performance appraisal, and persuasive interviews.

SPC 3408  Stand-Up Comedy  3 credits
Upper-level performance class exploring stand-up comedy. The course will focus on four primary methodologies: (1) History of stand-up comedy (2) Rhetorical analysis of stand-up comedy (3) Development and performance of an original five-minute routine (4) Production and promotion of a stand-up comedy show. Prerequisites: SPC 2023 for level UG with min. grade of B (may be taken concurrently)

SPC 3425  Group Communication  3 credits
Students study small group discussion and problem solving in this course. A basic understanding of theory behind purposeful discussion is taught in addition to providing students with practical experiences participating in or leading small groups. Permission of Instructor. Prerequisites: SPC 1600 OR SPC 2023

SPC 3513  Argumentation and Debate  3 credits

SPC 3543  Enviro Persuade Activism  3 credits
Theories and practice of persuasion and activism are examined and are related to environmental movements. Successful environmental persuasive messages and activists strategies will be examined and students will apply concepts to a real environmental cause.

SPC 3593  Intercollegiate Speech Debate  1 credits
Competitive forensics participation for students with experience. May be repeated for a maximum of 4 credit hours. Prerequisites: Good academic standing, Junior Status and consent of the instructor.

SPC 3594  Forensics Activity  1 credits
Noncompetitive forensics participation for students of Junior or Senior Standing. May be repeated for a maximum of 4 credit hours.

SPC 3602  Advanced Public Speaking  3 credits
Development of public speaking abilities to become proficient in both the construction and delivery of a speech. Students will be required to deliver speeches both to their classmates as well as in the community. Prerequisites: SPC 2023 OR SPC 1600
SPC 3604 Environmental Public Speaking 3 credits
Provides students the opportunity to develop further their public speaking abilities with specific emphasis on the construction and delivery of speeches on environmental themes. Students will be required to deliver speeches both to their classmates as well as in the community.
Prerequisites: SPC 2023

SPC 3721 Interracial/Intercultural Comm 3 credits
Examines interracial and intercultural communication theory and behavior. Explores the effect of race, gender, exceptionality, age, regionality, occupation and education.

SPC 3722 Critical Race Theory in Comm 3 credits
This course (1) explores communication and the dynamics of race-race, power, privilege, and oppression - primarily in the U.S. context; (2) connects theoretical perspectives from critical race theory, whiteness studies, and the interracial communication to practical perspectives based on students' lived experiences; (3) uses academic texts, personal narratives in literature, and documentary and non-documentary films.
Prerequisites: SPC 3721

SPC 4900 Directed Reading/Ind. Sty 1 to 6 credits
Independent Study

SPC 4932 Senior Seminar 3 credits
Supervised senior projects. Examination of relevant current communication research. Shared results of student research.
Prerequisites: SPC 3210 for level UG with min. grade of C and PHI 3223 for level UG with min. grade of C and PHI 3106 for level UG with min. grade of C and SPC 3721 for level UG with min. grade of C

SPC 4941 Internship 1 to 6 credits
Supervised professional experience in a communication related field. Interns report to and are assessed by a faculty member.
Prerequisites: SPC 3210 for level UG with min. grade of C and PHI 3223 for level UG with min. grade of C and PHI 3106 for level UG with min. grade of C and SPC 3721 for level UG with min. grade of C

SPC 4944 Enviro Communication Internship 1 to 6 credits
Supervised professional experience with environmental organizations. Internships involve work with bona fide professional organizations strongly involved with environmental communication. Interns report to and are assessed by a faculty member.
Prerequisites: SPC 3210 and PHI 3223 and PHI 3106 and SPC 3721

SPM 3004 Principles of Sports Mgt 3 credits
The role of sport management in contemporary sporting environments. Focus will be on providing an introduction to sports industry; growth trends in the industry; and careers in the industry, including an overview of management in the professional sports franchise; intercollegiate athletics, sports marketing and promotions; sports law; facilities management; the health club and resort industry; sports tourism; and other current trends in sport management. (Junior standing required)

SPM 4104 Sport Facility & Event Mgt. 3 credits
An understanding of the role of the sport facility in society is stressed. Topics include building a facility, feasibility studies, financing a facility, furnishing of a facility, types of facilities, producing events, day-to-day operations, concessions, maintenance, franchise interaction, and the career paths to become a successful facility manager. Special event programming topics covered include protocols in planning sports events, risk management assessment, celebrity contracts, media marketing, sponsorship, merchandising, advertisement, hospitality, and assessment of event success.
Prerequisites: PET 3460 OR SPM 3004

SPM 4304 Sports Promotion 3 credits
An introduction to the marketing of sport as a product and the promotion of sport activities. Topics include the definition of the market, consumer analysis, market segmentation, product licensing, product positioning, pricing, promotion, marketing communication, and distribution, as they apply to sports. Corporate sponsorship, fundraising, sales and public relations are also covered.
Prerequisites: PET 3460 OR SPM 3004

SPN 1030 Span for Health Professions I 3 credits
This course emphasizes on the practical application of Spanish to communicational situations relative to patients and personnel.
Corequisites: SPN3013L

SPN 1031 Span for Health Profession II 3 credits
This course emphasizes on the practical application of Spanish to communicational situations relative to patients and personnel.
Prerequisites: SPN 1030 for level UG with min. grade of D
Corequisites: SPN3013L

SPN 1120 Beginning Spanish I 3 credits
This is the first course in the first-year Spanish sequence and introduces students to the Spanish language. The topics included in the course are Spanish grammar, syntax, and vocabulary. Through the application of the grammar and vocabulary, students are introduced to some of the cultures and peoples of Spanish heritage. Not open to native or near-native speakers of Spanish.
Corequisites: SPN1120L

SPN 1120L Beginning Spanish I Lab 1 credits
This lab provides opportunities for students to practice listening comprehension, speaking, sounds, and the grammar and vocabulary learned in this course.
Corequisites: SPN1120

SPN 1121 Beginning Spanish II 3 credits
This is the second course in the first-year Spanish sequence and continues to introduce students to the Spanish language. The topics included in the course are Spanish grammar, syntax, and vocabulary. Through the application of the grammar and vocabulary, students are introduced to some of the cultures and peoples of Spanish heritage. Not open to native or near-native speakers of Spanish.
Prerequisites: (SPN 1120 for level UG with min. grade of D and SPN 1120L for level UG with min. grade of D) OR (SPN 1100 for level UG with min. grade of D and SPN 1100L for level UG with min. grade of D)
Corequisites: SPN1121L

SPN 1121L Beginning Spanish Lab II 1 credits
This is the laboratory which accompanies SPN 1121. Through oral and written exercises, it provides students with the opportunities to practice what they have learned in the classroom.
Prerequisites: (SPN 1120 for level UG with min. grade of D and SPN 1120L for level UG with min. grade of D) OR (SPN 1100 for level UG with min. grade of D and SPN 1100L for level UG with
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<tbody>
<tr>
<td>SPN 2201</td>
<td>Intermediate Spanish II</td>
<td>3 credits</td>
<td>This is the second half of second year Spanish. Prerequisite: Placement Test. Corequisites: SPN2201L</td>
</tr>
<tr>
<td>SPN 2201L</td>
<td>Intermediate Spanish II Lab</td>
<td>1 credits</td>
<td>This is the lab that accompanies SPN 2201. Corequisites: SPN2201</td>
</tr>
<tr>
<td>SPN 2220</td>
<td>Intermediate Spanish I</td>
<td>3 credits</td>
<td>A review of the basic structure of spoken and written Spanish is offered in this course. The emphasis lies on communication, reading, and writing. The class is not open to native or near-native speakers of Spanish. Prerequisites: (SPN 1120 for level UG with min. grade of C and SPN 1120L for level UG with min. grade of C) OR (SPN 1101 for level UG with min. grade of C and SPN 1101L for level UG with min. grade of C) Corequisites: SPN2220L</td>
</tr>
<tr>
<td>SPN 2220L</td>
<td>Intermediate Spanish I Lab</td>
<td>1 credits</td>
<td>The course is a laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required and, if dropped, then dropped simultaneously. The class is not open to native or near-native speakers of Spanish. Prerequisites: (SPN 1120 for level UG with min. grade of C and SPN 1120L for level UG with min. grade of C) OR (SPN 1101 for level UG with min. grade of C and SPN 1101L for level UG with min. grade of C) Corequisites: SPN2220</td>
</tr>
<tr>
<td>SPN 2240</td>
<td>Conversation</td>
<td>3 credits</td>
<td>Development of basic conversational skills. The class is not open to native or near-native speakers of Spanish.</td>
</tr>
<tr>
<td>SPN 2241</td>
<td>Conversation II</td>
<td>3 credits</td>
<td>This is a continuation of SPN 2240. Prerequisite: Placement Test. Prerequisites: SPN 2200 for level UG with min. grade of C and SPN 2200L for level UG with min. grade of C and SPN 2210 for level UG with min. grade of C and SPN 2210L for level UG with min. grade of C and SPN 2240 for level UG with min. grade of C</td>
</tr>
<tr>
<td>SPN 2270</td>
<td>Study Abroad</td>
<td>1 to 6 credits</td>
<td>An intensive study-travel program in a Spanish-speaking country is the focus of this course. Prerequisites: SPN 1121 for level UG with min. grade of D OR SPN 1101 for level UG with min. grade of D</td>
</tr>
<tr>
<td>SPN 3013</td>
<td>Span for Professional Pers</td>
<td>3 credits</td>
<td>The course is geared to linguistic needs of professional groups and beginning language study with specific emphasis to meet interests and needs of the class, such as medical, business, technical. Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3013L</td>
<td>Span for Professional Pers Lab</td>
<td>1 credits</td>
<td>The course is a laboratory geared to linguistic needs of professional groups and beginning language study with specific emphasis to meet interests and needs of the class, such as medical, business, technical. Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3022</td>
<td>Spanish for Teachers I</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in education working with Spanish speakers. Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3023</td>
<td>Spanish for Teachers II</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in education working with Spanish speakers. Prerequisites: SPN 3022 for level UG with min. grade of D Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3040</td>
<td>Span for Crim Just Pers I</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in criminal justice working with Spanish speakers. Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3041</td>
<td>Span for Crim Just Pers II</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in criminal justice working with Spanish speakers. It is a continuation of SPN 3040. Prerequisites: SPN 3040 for level UG with min. grade of D Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3042</td>
<td>Spanish for Human Services I</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in Human Services working with Spanish speakers. Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3043</td>
<td>Spanish for Human Services II</td>
<td>3 credits</td>
<td>This course focuses on the linguistic needs of those in Criminal Justice working with Spanish speakers. It is a continuation of SPN 3043. Prerequisites: SPN 3043 for level UG with min. grade of D Corequisites: SPN3013L</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>Composition</td>
<td>3 credits</td>
<td>A study of syntax, grammar, vocabulary, and writing is the focus of this course. Prerequisite: Placement Test or SPN 2200 and SPN 2201 with a C or better. Prerequisites: SPN 2200 for level UG with min. grade of C and SPN 2201 for level UG with min. grade of C.</td>
</tr>
<tr>
<td>SPN 3314</td>
<td>Span Gram &amp; Comp for Native Sp</td>
<td>3 credits</td>
<td>This course emphasizes those aspects of Spanish grammar, syntax, and phonetics which are problematic for the native speaker living in non-Spanish-speaking countries. Prerequisites: Instructor's Authorization.</td>
</tr>
<tr>
<td>SPN 3350</td>
<td>Spanish for Native Speakers</td>
<td>3 credits</td>
<td>Intensive Spanish grammar, syntax, and phonetics for native speakers who have had little or no formal training in the language. Permission of instructor required.</td>
</tr>
<tr>
<td>SPN 3400</td>
<td>Conversation &amp; Composition I</td>
<td>3 credits</td>
<td>Practice in listening comprehension, speaking, reading and writing is the focus of this course. The class involves reading texts, collateral reading, reports, and discussions of written compositions. Prerequisite: Placement Test, or Instructor's Authorization.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>SPN 3401</td>
<td>Conversation &amp; Composition II</td>
<td>3</td>
<td>Practice of understanding, speaking, reading, and writing. Includes reading</td>
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<td>texts, collateral reading, reports, and discussions of written compositions.</td>
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<td>Prerequisites: SPN 3400 for level UG with min. grade of D</td>
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<tr>
<td>SPN 3411</td>
<td>Advanced Oral Expression</td>
<td>3</td>
<td>Oral skills, using literary text from Spain and Latin America as sources of</td>
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<td>discussions, oral reports, speeches, and conversation. Includes dictions</td>
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<td>exercises, phonetic drills, and extensive recordings. Prerequisites:</td>
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<td>Instructor's Authorization.</td>
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<td>Prerequisites: SPN 2201 for level UG with min. grade of C OR SPN 2240 for</td>
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<td>level UG with min. grade of C</td>
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<td>SPN 3440</td>
<td>Span for Global Econ Market I</td>
<td>3</td>
<td>This course is an introduction to basic Spanish for persons with</td>
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<td>commercial interests; emphasis on conversational and business language with</td>
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<td>limited grammatical structure pertaining to reading and writing in business</td>
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<td>Spanish. Corequisites: SPN 3013L</td>
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<td>SPN 3441</td>
<td>Span for Global Econ Market II</td>
<td>3</td>
<td>This course is an introduction to basic Spanish for persons with</td>
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<td>commercial interests; emphasis on conversational and business language with</td>
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<td>limited grammatical structure pertaining to reading and writing in business</td>
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<td>Spanish. Prerequisites: SPN 3040 for level UG with min. grade of D Coreqs:</td>
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<td>SPN 3013L</td>
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<tr>
<td>SPN 3500</td>
<td>Survey of Span Cult &amp; Civil I</td>
<td>3</td>
<td>Introduction to the people, institutions, and culture of Spain, from its</td>
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<td>origins to the aftermath of Spain's Golden Age and world influence. For third</td>
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<td>and fourth year Spanish majors, and non-majors. Lectures as well as assigned</td>
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<td>reports and papers are in Spanish. Prerequisite: Instructor's Authorization.</td>
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<td>Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for</td>
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<td>level UG with min. grade of C</td>
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<td>SPN 3501</td>
<td>Survey of Span Cult &amp; Civil II</td>
<td>3</td>
<td>The course is a continuation of SPN 3500. In this course emphasis lies on</td>
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<td>the ideological, political, economic, and cultural transformations begun with</td>
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<td>the Renaissance that form the background of contemporary culture.</td>
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<td>Prerequisites: SPN 3500 for level UG with min. grade of D</td>
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<tr>
<td>SPN 3520</td>
<td>Latin Amer Cult &amp; Civil I</td>
<td>3</td>
<td>Introduction to the people, institutions, cultures, and civilizations of</td>
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<td>Latin America, from its pre-Columbian origins through the Spanish conquest</td>
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<td></td>
<td>and colonial period. For third and fourth year majors and non-majors.</td>
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<td>Lectures as well as assigned reports and papers are in Spanish. Prerequisite:</td>
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<td>Instructor's Authorization.</td>
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<td>Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for</td>
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<td>level UG with min. grade of C</td>
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<tr>
<td>SPN 3521</td>
<td>Latin Amer Cult &amp; Civil II</td>
<td>3</td>
<td>The course is a continuation of SPN 3520 Latin American Cultures and</td>
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<td>Civilizations I. In this course the emphasis lies on the ideological, political,</td>
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<td>economic, and cultural transformations triggered by the modern European</td>
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<td>Enlightenment that set Latin America on a course of independence from Spain,</td>
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<td>nationalisms, and modernization.</td>
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<td>For third and fourth year majors and non-majors. Lectures as well as assigned</td>
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<td>reports and papers are in Spanish. Prerequisite: Instructor's Authorization.</td>
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<td>SPN 3520</td>
<td>Latin Amer Cult &amp; Civil I</td>
<td>3</td>
<td>Prerequisites: SPN 2201 for level UG with min. grade of D</td>
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<td>SPN 3710 The Spanish Language</td>
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<td>SPN 4410</td>
<td>Advanced Conversation</td>
<td>3</td>
<td>Intensive practice in the formulation and expression of ideas in standard</td>
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<td>Spanish is the focus of this course. The class is not open to native or</td>
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<td>non-native speakers of Spanish. Prerequisite: Instructor's Authorization.</td>
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<td>Prerequisites: SPN 3411 for level UG with min. grade of C</td>
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<tr>
<td>SPN 4470</td>
<td>Advanced Senior Study Abroad</td>
<td>1 to 6</td>
<td>Credits earned must be preapproved and will be evaluated on an individual</td>
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<td>case basis in order to validate transfer of credits. Permission of the</td>
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<td>Instructor's is required.</td>
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<td>SPN 4537</td>
<td>Spec Top in Afro-Hispanic Cult</td>
<td>3</td>
<td>Closely examines various topics related to the culture of African Diaspora</td>
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<td>groups in the Hispanic World. Lectures are in Spanish; materials may be</td>
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<td>available in Spanish and English; reports and research papers are accepted</td>
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<td>in both languages. Open to fourth year majors, and non-majors. The course</td>
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<td>may be cross-referenced with African Diaspora Studies (see prefix in AFA),</td>
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<td>or Latin American Studies (see prefix LAS). Prerequisite: Instructor's</td>
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<td>authorization for majors.</td>
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<td>Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for</td>
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<td>level UG with min. grade of C</td>
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<tr>
<td>SPN 4538</td>
<td>Cult Exp of Indig People in LA</td>
<td>3</td>
<td>Examines the various cultural expressions of indigenous peoples of Latin</td>
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<td>America. Topics include theater, literature, arts and social structures.</td>
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<td>Lectures are in Spanish; materials may be available in Spanish and English;</td>
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<td>assigned reports and research papers are accepted in both languages. Open to</td>
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<td>fourth year majors, and non-majors. This course may be cross-referenced.</td>
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<td>Prerequisite: Instructor's authorization for majors.</td>
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<td>Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for</td>
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<td>level UG with min. grade of C</td>
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<tr>
<td>SPN 4910</td>
<td>Directed Independent Research</td>
<td>3</td>
<td>In this course research projects or certain aspects of research are carried</td>
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<td>out by one or more students under the supervision of an instructor. The class</td>
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<td>is intended to help students acquire skills in applying research principles</td>
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<td>and obtaining practice in rigorous data collection and reporting. The hours</td>
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<td>and levels may vary. Only for senior Spanish majors. Prerequisite:</td>
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<td>Instructor's Authorization.</td>
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<td>Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for</td>
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<td>level UG with min. grade of C</td>
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<td>SPN 4920</td>
<td>Spanish Symposium</td>
<td>3</td>
<td>The course offers special sessions centering around a specific topic that are</td>
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<td>designed to enhance specific professional skills, including professional</td>
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<td>portfolio preparation. The topics may vary and are selected on the basis of</td>
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<td>what is new or currently relevant in the field. The hours and levels may</td>
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<td>vary. Only for senior Spanish majors. Prerequisite: Instructor's Authorization.</td>
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SPN 4940 Intern Practicum 3 credits
Application in professional settings of knowledge is offered in this course. The hours may vary and levels vary within an institution. Internship/Practicum/Clinical Practice hours are not automatically transferable.
Prerequisites: SPN 4410 for level UG with min. grade of D

SPT 2721 The Americas: Latino Culture & Society 3 credits
This course offers a comprehensive view of Latino Culture and Society in Literature and Film. This course will have three distinct sections. A) Places and People will explore issues related to the history of Latin America/Spain, geography and diversity within regions and nations. B) Diversity of the Latino groups and nations culture, language and traditions will be explored as they are represented in art forms such as film and literature. C) Migration and Displacement will explore the causes and consequences of migration, Latinos in the US and immediate Latino communities through first hand accounts or memoir, fiction, journalistic reporting or film.

SPT 3100 Masterpieces 3 credits
Selected readings in English translations of major works of Spanish literature are offered in this course. The class is designed for students with no knowledge of Spanish. Lectures in English.

SPT 3130 Latin-American Literature 3 credits
This class is a survey of Latin American Literature that includes: the Spanish conquest, the colonial period, Independence, 19th and 20th centuries. Highly recommended for Spanish majors. Lectures in English.
Prerequisites: SPN 2201 for level UG with min. grade of D

SPT 3510 U.S. Latino/Hispanic Cultures 3 credits
This course examines major cultural productions and trends of U.S. Latino/Hispanic communities in the 19th and 20th centuries. Lectures in English. May be cross-referenced with English (Cultural Studies). Highly recommended for Spanish majors.

SPT 3523 Women Writers of Latin America 3 credits
Reviews literary works by Latin-American women from the 17th through the 20th century. Topics related to gender, race and ethnicity, values and ethics, social, economic, and political issues are discussed. Readings will include different genres and periods. Highly recommended for Spanish major. Lectures in English.

SPT 3532 Hispanic Cinema 3 credits
Survey of major modern films and directors from Spain, Latin America, and the U.S. Lectures, discussions, and assignments in English.

SPT 4800 Translation Skills I 3 credits
Designed to develop specialized translation skills. It may also cover literacy, scientific, commercial, legal, and general topics. Prerequisite: Instructor's Authorization.

SPT 4801 Professional Translation 3 credits
Techniques and resources for professional translation. Prerequisite: Instructor's Authorization.

SPT 4806 Oral Skills for Interpreters 3 credits
This course offers voice production in sight translation, consecutive and simultaneous interpretation, vocal projection, enunciation and phonetics. Theory, practice, extensive exercises in vocal control and use of sound equipment are also covered. Prerequisite: Instructor's authorization.

SPT 4812 Intro to Oral Translation 3 credits
This course provides an introduction to oral translation, public speaking techniques and written texts. Included in Introduction to Oral Translation are theory, concepts, definition and relation to other techniques. Public speaking techniques include voice projection, poise, enunciation, intonation and ways to develop and control while engaging in complicated mental translations.
Prerequisite: Instructor's authorization, placement test.
Prerequisites: SPT 1120 for level UG with min. grade of D and SPT 1121 for level UG with min. grade of D and SPT 2200 for level UG with min. grade of D and SPT 2201 for level UG with min. grade of D and SPT 2240 for level UG with min. grade of D and SPT 2241 for level UG with min. grade of D and SPT 3410 for level UG with min. grade of D

SPT 4813 Simultaneous Translation 3 credits
Students are provided training in translation through oral and non-structured writing exercises. Prerequisite: Instructor's authorization, placement test.
Prerequisites: SPT 1120 for level UG with min. grade of D and SPT 1121 for level UG with min. grade of D and SPT 2200 for level UG with min. grade of D and SPT 2201 for level UG with min. grade of D and SPT 2240 for level UG with min. grade of D and SPT 2241 for level UG with min. grade of D and SPT 3410 for level UG with min. grade of D

SPT 4814 Conference Interpreting 3 credits
Students learn techniques and gain practical experience in interpreting for international conferences and for diplomacy. Intensive practice in simultaneous interpretation is provided.
Prerequisite: Instructor's authorization, placement test.
Prerequisites: SPT 1120 for level UG with min. grade of D and SPT 1121 for level UG with min. grade of D and SPT 2200 for level UG with min. grade of D and SPT 2201 for level UG with min. grade of D and SPT 2240 for level UG with min. grade of D and SPT 2241 for level UG with min. grade of D and SPT 3410 for level UG with min. grade of D

SPW 3030 Intro to Span & Latin Amer Lit 3 credits
Prose fiction, drama, poetry, and essay are the main foci of this course. It also focuses on techniques of literary analysis.
Prerequisite: Instructor's Authorization.

SPW 3100 Survey of Spanish Literature 3 credits
Selected literary masterpieces of Spain form Roman times to the present, including poetry, theater, prose, and fiction. Lectures in Spanish only.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 3130 Latin American Literature 3 credits
Works of outstanding Latin American authors from Columbus through the 20th century. Readings of some pre-Columbian texts, chronicles, colonial, 19th and 20th century texts. Advanced reading/writing knowledge of Spanish. Lectures in Spanish only.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 3320 Modern Hisp Theater Workshop I 3 credits
Introduction to acting and oral practice and Spanish: short scenes will be performed in class; participation in a theater production of a sketch/play in Spanish.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 3423  Masterpieces of Span Gold Age  3 credits
Major works of Spain's Renaissance and Baroque period (Isabella & Ferdinand through the Habsburg dynasty, 1471-1700). Advanced reading, writing skills, considerable fluency required. Lectures, texts, discussions, and papers in Spanish.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 3480  Topics in 20th Cent Span Lit  3 credits
Study of selected works by authors from the 1898 thru the Restoration of King Juan Carlos. Advanced reading, writing skills, considerable fluency required. Lectures, texts, discussions, and papers in Spanish.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 4271  20th Century Spanish Novel  3 credits
This course is an analysis of the masterpieces of Spanish fiction, beginning with the Generation of 1898, Civil War, and the post-Franco, postmodern trends. Recommended for majors in their fourth year. Lectures in English.

SPW 4282  Contemporary Latin Am Fiction  3 credits
Contemporary masters of short and long fiction works in Latin America. Advanced reading, writing skills, considerable fluency required. Lectures, texts, discussions, and papers in Spanish.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPW 4304  Latin America Theater  3 credits
This course covers readings in the Latin American Theater.

SPW 4604  Cervantes' Don Quixote  3 credits
Study of Cervantes' masterpiece in the original, its importance as a literary production inserted in the first modern novel, and as a literary production inserted in the field of the instructor. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. For majors in their senior year. Prerequisite: Instructor's Authorization.

SPW 4900  Directed Study  1 to 3 credits
Provides an opportunity for students to engage in research of their choice in special areas of interest. The research may be carried out on an individual or group basis but must be under the supervision of the instructor. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. For majors in their senior year. Prerequisite: Instructor's Authorization.

SPW 4930  Selected Topics  1 to 3 credits
The study of selected issues, scholarly works, themes or movements relating to some aspect of Spanish culture and society. For majors in their senior year. Prerequisite: Instructor's Authorization.

SSE 4153  Social Science Methods 6-12  3 credits
Instructional strategies and materials that are vital elements of the teacher's knowledge base for making curricular decisions. Survey techniques and materials unique to social science, grades 6-12.
Prerequisites: (EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C) OR EDG 4343 for level UG with min. grade of C

SSE 4313  Teach. Elem. School Soc. Stud.  3 credits
Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

SSE 4333  Teaching Mid School S.S.  3 credits
Identification of major content areas in the social sciences; correlation of social science fields with state curriculum standards and assessment procedures. Topics related to selecting, organizing, and sequencing teaching materials and methods related to unique needs of pre-adolescents. School-based practicum is required in this course. Includes strategies for working with lower-level readers.

SSE 4334  Soc. S.S. Educ. Teaching Meth.  3 credits
Methods of teaching senior high school social sciences. Emphasis on selecting materials, techniques, methods, assessment strategies for high school students. School-based practicum is a requirement of this course. Includes strategies for working with lower-level readers.

SSE 4343  Social Sciences & Humanities  3 credits
Concepts associated with social sciences and humanities. Students will be able to integrate related subjects (e.g. law, humanities, religion, mathematics, and technology) in a comprehensive curriculum. Integrated teaching strategies, methods, and concepts that are appropriate for use with students in grades pre-K through grade 12.
Prerequisites: EDG 3201 for level UG with min. grade of C

SSE 4640  Comm Skills in Social Studies  2 credits
Reading and communication skills important to understanding social science literature and the teaching of social science. Will include strategies for enhancing students' reading skills, determining materials readability, and generating strategies for non-readers.

SSE 4936  Senior Seminar: Soc. Science  2 to 3 credits
Synthesis of teacher candidate's courses and preparation for the professional interview and application process.
Corequisites: SSE4940

SSE 4940  Internship in Soc. Science Ed  9 credits
One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates for 9-12 semester hours. (S/U only)
Corequisites: SSE4936

SSE 4941  Integ Field Exper: Soc Science  3 credits
Semester long internship to observe and demonstrate effective teaching practices. Student will partially assume teacher role in selected schools. Student will be in 2-3 settings for a total of 12 weeks. Part of the course experience will be a 2 week experience teaching second language learners.
Prerequisites: EDF 3201 for level UG with min. grade of C and
EDG 3201 for level UG with min. grade of C and RED 4350 for level UG with min. grade of C and SCE 4330 for level UG with min. grade of C and TSL 4520 for level UG with min. grade of C

SSE 5937 Special Topics in Soc Sci Edu 3 credits
Techniques, strategies, and concepts employed by social science teachers that are effective in motivating middle and high school students to acquire informational and procedural knowledge about various areas of the world. Students are expected to plan an authentic classroom activity demonstrating the use of the methods, techniques and content studied.

SSE 6326 Soc Studies Meth: 6-12 3 credits
Focus on teaching social sciences in middle and senior high school, including strategies for teaching adolescents, curriculum adaptations for special needs and LEP learners, and current literature for teaching social sciences. Special attention given to teaching Florida history and government as well as focus on state and national standards.

SSE 6327 Soc Studies Meth: 9-12 3 credits
Focus on teaching social science in high schools. Themes include strategies for teaching students grades 9-12, curriculum adaptation for special needs students, assessment of student learning, and current literature for teaching social science, as well as strategies for teaching the various disciplinary area either alone or in an integrative fashion.

SSE 6330 Soc Studies Meth: 9-12 3 credits
Focus on teaching social science in high schools. Themes include strategies for teaching students grades 9-12, curriculum adaptation for special needs students, assessment of student learning, and current literature for teaching social science, as well as strategies for teaching the various disciplinary area either alone or in an integrative fashion.

SSE 6617 Trends in Soc Studies Instruc 3 credits
Crucial concepts drawn from the social sciences. Analysis of the problems approach. Students will select an area of independent study on an advanced level.

SSE 6945 Internship in Soc Science, 6-12 6 credits

STA 2023 Statistical Methods 3 credits
Basic concepts of probability, data collection, organization and presentation, descriptive statistics, parameter estimation for normally distributed r.v., confidence intervals, hypothesis testing (t and chi-square tests) and regression. Emphasis will be on developing conceptual understanding, model selection, and interpretation skills. *Meets Gordon Rule for Math
Prerequisites: (MAT 1033 for level UG with min. grade of C OR MAC 1105 for level UG with min. grade of C OR MAC 1147 for level UG with min. grade of C OR MAC 2233 for level UG with min. grade of C OR MGF 1107 for level UG with min. grade of C OR MGF 1106 for level UG with min. grade of C) OR S02 for min. SCORE of 550 OR A02 for min. SCORE of 24 OR ACU4 for min. SCORE of 090

STA 2037 Statistics with Calculus 3 credits
Calculus-based introduction to statistics. Basic concepts of probability, data collection, organization and presentation, descriptive statistics, random variables and their distributions, parameter estimation, confidence intervals, hypothesis testing (t and chi-square tests). Emphasis will be on developing conceptual understanding, model selection, and interpretation skills. *Meets
and private social programs. Components of this course include field experience and case study analyses.
Prerequisites: SYG 2000 for level UG with min. grade of C

SYA 4935 Senior Capstone 3 credits
Senior Capstone experience for all Sociology majors. In conference with selected faculty, students will devise a senior project that will emphasize the use of synthesis thinking and skill, as well as application of Sociological concepts. The project must be related to the major. Should be taken the final semester of the student's degree program.
Prerequisites: SYA 3010 for level UG with min. grade of C and SYA 3300 for level UG with min. grade of C

SYA 4949 Sociology Internship 3 credits
Practical application of knowledge and skills acquired in the classroom in supervised field settings. Hours may vary and are based upon the nature of the practicum.

SYD 3410 Urban Sociology 3 credits
Study of the nature and development of urban societies, the distribution of populations and the growth of urban institutions. The processes of urban life include social change, population influences, law enforcement, health, and socio-cultural, economic and political evolution. Implicit in this course is an interdisciplinary approach to the study of rural communities and societies.
Prerequisites: SYG 2000 for level UG with min. grade of C

SYD 3440 Rural Sociology 3 credits
Examination of the socio-cultural, political, historical and economic dynamics of rural communities and societies throughout the world including in depth cross-cultural analyses of select countries. Implicit in this course is an interdisciplinary approach to the study of rural communities and societies.

SYD 3600 Sociology of Community 3 credits
This course studies communities as social forms. Included in the course is an analysis of various theoretical models, past and present community models, social institutions, power structures, intergroup relations, social stratification, and decision-making.

SYD 3625 So Fla Sociocultural Systems 3 credits
An interdisciplinary analysis of South Florida, focusing upon social, economic, political and cultural factors which impact the socio-cultural systems. Knowledge and tools for analysis are drawn from demography, cultural ecology, inter-group relations, and conflict resolution.

SYD 3630 Latin Amer Social Structures 3 credits
An overview of Latin American social structure and factors which support or impede social change, collaboration and cultural maintenance.
Prerequisites: SYG 2000 for level UG with min. grade of C

SYD 3631 Caribbean Social Structures 3 credits
An overview of Latin American social structure and factors which support or impede social change, collaboration and cultural maintenance.

SYD 3730 The African-Amer Experience 3 credits
An examination of historical and social factors which have and continue to impact all peoples of African descent in the Americas including the sociological impacts upon African-Americans and their responses to racial subjugation in their realms of life. Special attention is paid to the social, economic, and political consequences of that subjugation. Also included are discussions of the commonalities of experience among the peoples of African descent in the Americas.

SYD 3770 Race & Culture 3 credits
Historical and contemporary study of relationship between race and culture among various minority groups in the US and other selected western societies. Course is cross cultural and global in content and includes such issues as the evolution of racial beliefs and attitudes, the dynamics of prejudice and discrimination, social policies applied to ethics which are reinforced by legal sanctions, and societal theories which attempt to explain such phenomena.

SYD 3800 Sociology Sex Roles & Gender 3 credits
Historical and contemporary global and cross-cultural analysis of sex and gender roles in society. Special attention is paid to socio-psychological aspects, social construction and development of sexual and gender identities, relations to social institutions, and impacts on social change.

SYD 4020 Global Population 3 credits
The sociological determinants of fertility, mortality and migration; theories of population change are also discussed.
Prerequisites: SYG 2000 for level UG with min. grade of D

SYD 4603 Community Development 3 credits
Examination of the theories, principles and techniques of analysis of major contemporary strategies of community development including the evaluations of the applicability of the theories and strategies in rural and urban areas and strategies for sustainable development.
Prerequisites: SYG 2000 for level UG with min. grade of D

SYD 4910 Directed Independent Study 3 credits
Research projects are carried out by one or more students under the supervision of a faculty mentor. Students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting.

SYG 2000 Intro to Sociology 3 credits
As the introductory course in Sociology, a general overview of the discipline is provided. Major sociological concepts, theories and schools of thought, key theorists and the tools of the discipline are discussed.

SYG 2010 Social Problems 3 credits
A general introduction to the sociological study of problems including the nature of a social problem, poverty and inequality, racism, sexism, substance abuse, crime and violence, urban and environmental problems. Interdisciplinary strategies which have been utilized to reduce or solve the problems are examined.

SYG 2012 Comp Sociology-Global Issues 3 credits
The application of sociological concepts and principles to the description and analysis of social issues of contemporary societies.

SYG 2220 Introduction to Gender Studies 3 credits
A cross-cultural introduction to the role of women in society. Analyses are made of the changing political, social, economic, legal and sexual roles of women. Also included are discussions of the various forms of women movements, and international focus on issues relating to women which have emerged in recent years.

SYG 2231 Intro to African-Amer Studies 3 credits
An overview of African-American social structure and factors
which support or impede social change, collaboration and cultural maintenance.

SYG 2250 Multicultural Issues 3 credits
A survey of many of the cultural groups throughout the world examining the inter-ethnic collaborations and conflicts, cultural conflict and self rejection experiences of people around the world. Facilitation of understanding among peoples of different parts of the world with diverse cultural backgrounds. Special attention is paid to those cultural groups represented in the Americas.

SYG 2442 Sociology of Sport 3 credits
The social institution of sport, its meanings and consequences for American society, from play to professional sport.

SYG 3011 Social Issues in Society 3 credits
An examination of the historical and contemporary social issues interconnectedness of many of the issues. Illustrated in the course will be examples of interdisciplinary strategies to address the issue.

SYG 3930 Special Topics 3 credits
Topics of current or special interest.

SYG 4900 Directed Reading 3 credits
Under the guidance and supervision of an instructor, students develop a program of reading and possibly research. Prerequisites: SYG 2000 for level UG with min. grade of D

SYO 3120 The Family 3 credits
An analysis of the changing structure of the American family and an examination of its relationship to other institutions. Studies the impact of wider societal changes on the historical development of the family, also explores alternative family patterns as well as the future of the family.

SYO 3200 Sociology of Religion 3 credits
Study of the types, sources, and functions of religious behavior in relation to other aspects of aspects of personality and culture. Prerequisites: SYG 2000 for level UG with min. grade of D

SYO 3250 Sociology of Education 3 credits
The study of sociology of education with an emphasis on aspects that are relevant to an understanding of the issues and problems of American education.

SYO 3360 Organization of Work 3 credits
Analysis of the meaning of work, public and private organizations in the modern world; occupational development and socialization; occupations, professions and careers; social control, formal and informal power structures in the workplace; organizational change.

SYO 3400 Medical Sociology 3 credits
An examination of illness, behavior, biomedical and traditional healing systems from a comparative perspective. By analyzing illness cross-culturally, sociologists and health care providers can better understand the interrelatedness of technology, ecology, and health in larger populations.

SYO 3530 Social Stratification 3 credits
Examination of the formal and informal structures which place individuals and groups of people on various levels in the social structure and the implications on social behavior, life changes and social mobility. Prerequisites: SYG 2000 for level UG with min. grade of D

SYO 4130 Comparative Family Systems 3 credits
Analysis of the family institution from both an historical and a cross-cultural perspective including an examination of the stages of the family life cycle and issues in the areas of family dysfunction and dissolution.

SYO 4551 Comp. Sociology-World Problems 3 credits
The application of sociological concepts and principles to the description and analysis of social issues of the contemporary societies.

SYO 4631 Sociology Through Film 3 credits
Presentations of sociological phenomena are explored through the use of film, including discussions of implicit and explicit messaging, potential positive and negative effects of film on various aspects of social and cultural behavior.

SYO 4640 Sociology of Leisure 3 credits
A sociological analysis of leisure and leisure lifestyles. Various forms of sports and recreation as leisure are explored. Prerequisites: SYG 2000 for level UG with min. grade of D

SYO 4731 Aging, Self and Society 3 credits
The relationship between the aging, self and communal subcultures including consideration of the place of images of aging and the life course in self-definition, intergenerational contact, and institutionalization. Prerequisites: SYG 2000 for level UG with min. grade of D

SYO 4741 Soc. Org. of Death & Dying 3 credits
An interdisciplinary perspective examining death and dying. Cross-cultural differences are discussed. Prerequisites: SYG 2000 for level UG with min. grade of D

TAX 3012 Bus Income & Property Trans 3 credits
Introduces students to the tax system and discusses the measurement of taxable income from business operations and the tax treatment of gains and losses from property transactions. Topics include the definition and timing of gross income, the definition of a capital asset, common business deductions, loss limitation and disallowance rules, asset basis, cost recovery, and gain recognition (or deferral) for property transactions. Prerequisites: ACG 2071 for level UG with min. grade of C and CGS 1100 for level UG with min. grade of C

TAX 4001 Taxation of Individual Income 3 credits
Examines the determination of taxable income for individual taxpayers. Topics include filing status, dependency exemptions, income inclusion or exclusion rules, standard deductions, itemized deductions, tax credits, and employment taxes. Prerequisites: ACG 2071 for level UG with min. grade of C and CGS 1100 for level UG with min. grade of C

TAX 6015 Corporate Tax Issues 3 credits
An in-depth coverage of tax issues associated with corporations. Prerequisites: TAX 3012 OR TAX 4001

TAX 6045 Tax Research & Planning 3 credits
Examines the sources of tax authority which include its primary sources (legislative, judicial, and administrative), as well as secondary sources. Develops procedures for identifying the applicable tax issues, locating appropriate tax authority, and communicating the results of tax research. Prerequisites: TAX 3012 OR TAX 4001
THE 3540 Performing Communities 3 credits
Survey of theorists and performers who represent communities, both on the page and on the stage. The course examines the performing communities genre from Zora Neale Hurston's work on folklore to Anna Deavere Smith's performances of diverse communities in conflict.

THE 3503 Visuality/Performat/Textuality 3 credits
This course offers a concentrated experience in performing critical analysis of performance texts, performance events, and visual codes. The class is a necessary foundation to understanding dramatic material, the various codes of performance, and the possible texts of visual information.

THE 3511 Theories:Theatre/Performance I 3 credits
Part one of two courses providing a historical and critical survey of theories related to theatre and performance. The focus of this course will begin with Aristotle, move through the Renaissance and Restoration, continue through Hegel and end with the early nineteenth century contributions of the Russians.

THE 3512 Theories:Theatre/Performance II 3 credits
Part two of two courses providing a historical and critical survey of theories related to theatre and performance. The focus of this course will begin with the Germanic tradition of the late nineteenth century and conclude with an examination of contemporary critical theories of performance.

THE 2020 Introduction to Theatre 3 credits
A survey of history, literature, forms, styles, and philosophies of theater from a humanist approach.

THE 2300 Survey of Dramatic Literature 3 credits
Survey of dramatic literature from ancient times to the present.

THE 2430 Perf. ArtsCultur. Div. Society 3 credits
This course serves to introduce students to the interdisciplinary fields of the performing arts and critical multicultural studies. We will investigate performing arts as simultaneously co-produced with processes of identities: race, class, sexuality, gender.

THE 2925 Play Production 1 credits
Workshop to enhance specific professional skills.

THE 4945 Summer Repertory Theatre 3 credits
Final Project presented in public performance demonstrating expertise in declared area of specialization in theater emphasis or expertise in declared area of specialization in theater emphasis or major. Consent of instructor. May be repeated with a change of content up to a maximum of 9 credits.

THE 4959 Senior Project in Theatre 1 to 4 credits
Final Project presented in public performance demonstrating expertise in declared area of specialization in theater emphasis or major. Consent of instructor and senior status required. May be repeated with change of content up to a maximum of six credits.

THE 6720 Drama in the Elementary School 3 credits
Methods of using theatre and drama activities in elementary school, including use of drama and theatre for interdisciplinary, majors; no extra laboratory sections.
TPP 2190  Rehearsal and Performance I  3 credits
Introduction to skills and crafts of technical theater. Knowledge of
materials, techniques, tools and supplies basic to the execution of
environment.
Prerequisites:  TPP 2190 for level UG with min. grade of C
Corequisites:  TPP2290
TPP 2210  Stagecraft  3 credits
Prerequisites:  TPP 2190
Introduction to skills and crafts of technical theater. Knowledge of
materials, techniques, tools and supplies basic to the execution of
environment.
Prerequisites:  TPP 2190 for level UG with min. grade of C
TPP 2214  Stage, Lighting and Sound  3 credits
Prerequisites:  TPP 2190
Goes beyond the basics of lighting and sound design and
application.
TPP 2248  Workshop in Stage Makeup  1 credits
TPP 2290  Technical Theatre Lab  1 credits
TPP 2300  Production Workshop for Various Areas of Theatre Performance, 3 credits
Lab for technical theater. Should be taken concurrently TPP 2210.
Corequisites:  TPP2290
TPA 2000  Creative Design for Theatre  3 credits
Introduces the fundamental aspects of design for theatre projects.
TPA 2210  Stagecraft  3 credits
Introduction to skills and crafts of technical theater. Knowledge of
materials, techniques, tools and supplies basic to the execution of
environment.
Prerequisites:  TPP 2190 for level UG with min. grade of C
TPA 2214  Stage, Lighting and Sound  3 credits
Goes beyond the basics of lighting and sound design and
application.
Prerequisites:  TPP 2190 for level UG with min. grade of C
TPA 2248  Workshop in Stage Makeup  1 credits
Beginning theory and practice in makeup for the stage.
TPA 2290  Technical Theatre Lab  1 credits
Lab for technical theater. Should be taken concurrently TPP 2210.
Corequisites:  TPP2290
TPA 4060  Principles of Scenic Design  3 credits
Beginning design techniques.
Prerequisites:  TPP 2210
TPA 4930  Special Topics in Thea Prod/Ad  1 to 3 credits
Lecture, seminar or studio sessions covering selected topics of
interest in theatre production and administration. May be repeated
with a change of course content for up to 9 hours. Permission of the
instructor required.
TPA 4940  Internship in Tech Theatre  1 to 6 credits
TPP 2100  Acting I  3 credits
TPP 2111  Acting II  3 credits
TPP 2160  Physical Theatre I  3 credits
This course will combine a variety of physical exercises designed
to integrate voice, movement and actor training. It will be
physically challenging, vocally liberating, and mentally
stimulating.
TPP 2190  Rehearsal and Performance I  1 credits
Production workshop for various areas of theater performance,
including acting, directing, technical production, design, and
theater management.
TPP 2191  Rehearsal and Performance II  3 credits
The student will build on skills acquired in Rehearsal and
Performance I by participating in the rehearsal process and
performance of a production.
Prerequisites:  TPP 2190 for level UG with min. grade of C
TPP 3143  Physical Theatre II  3 credits
Exploration of the Physical Theatre through various styles of acting
continues. Included are the Greeks and Elizabethans, the Avant-
Garde and Experimental (Grotowski and Artaud). While doing this
we rediscover a physical approach to the actor's task.
Prerequisites:  TPP 2111 for level UG with min. grade of C
TPP 3192  Rehearsal & Performance III  3 credits
Assignment of specific role and/or responsibility. Opportunity for
student to receive additional supervision and critique, as well as
credit, for participation in rehearsal and performance. Consent of
instructor.
Prerequisites:  TPP 2191 for level UG with min. grade of C
TPP 3193  Rehearsal & Performance IV  3 credits
Assignment of specific role and/or responsibility. Opportunity for
student to receive additional supervision and critique, as well as
credit, for participation in rehearsal and performance.
Prerequisites:  TPP 3192 for level UG with min. grade of C
TPP 3242  Performance Art  3 credits
This performance seminar course introduces students to historical
and contemporary performance art movements. We investigate the
aesthetic theories that enabled such experimentation in the
performance art world and explore these theories through practical
application via embodied performances.
TPP 3292  App.Studies/New Theatre Techni  3 credits
The integration of theory and practice is the primary focus in this
course that critically examines the current avant- garde of
performance and live presentations. From this critical perspective,
students will create a performance event that exists at the
boundaries of current practice anticipating new forms of theatre and
productions.
Prerequisites:  THE 2020 and THE 3511 and THE 3512
TPP 3943  Perform.Comunities Field Mthd  3 credits
A practicum in field research methods and performing community.
Students participate in a service learning project to create
performances that ethically represent their community engagement.
Students will understand the power of performance to effect
community dialogue and awareness.
Prerequisites:  THE 3540
TPP 4155  Scene Study  3 credits
Basic scene study. Special problems in movement and speech to be
integrated with character development, rehearsal techniques, and
performance composition. Audition required.
Prerequisites:  TPP 3112
TPP 4174  Transmedia Autoperformance  3 credits
An advanced course in the preparation of single-performer
presentation based on a fictionalized fragment of the performer's
life drawing upon and incorporating a multiple-layered
performance presentation. This performance class requires that the
student write, perform, design, and create multiple layers of visual
and auditory information for public presentation.
Prerequisites:  TPP 3511 and TPP 3512 and TPP 3292
TPP 4310  Play Directing  3 credits
Theoretical and practical approach to directing for the stage.
Prerequisites:  TPP 2100
TPP 4600  Playwriting  3 credits
An introductory workshop in playwriting. Instructor approval.
TPP 4923 Musical Theatre Workshop  3 credits
Provide students with the opportunity to learn the basics of Musical theatre.

TPP 4930 Special Topics in Theatre Perf   1 to 3 credits
Lecture, seminar or studio sessions covering selected topics of interest in performance skills. May be repeated with a change of course content for up to 9 hours. Permission of the instructor required.

TPP 4940 Internship in Thtr Performance   1 to 6 credits
Resident Internship in an approved professional theater, shop or enrichment center. Limited to Junior and Senior Theater emphasis participants. Instructor approval. Prerequisites: TPP 3112

TRA 3132 Purchasing Management  3 credits
Purchasing is required by all types of goods-producing & service-providing organizations in such sectors as manufacturing, agriculture, health care, & government. This professional business function tries to buy the right good or service at the right quality, in the right quantity, at the right time, at the right price, from the right source, with delivery at the right place. Prerequisites: MAN 3504 and QMB 3200

TRA 3270 Global Operations Management  3 credits
In this age of fast global commerce & intense competition, business must pay closer attention to how goods & services are sourced, designed, created & delivered to customers. This course focuses on global operations capabilities as a strategic enabling of increased profits and effectiveness for goods-producing and service-providing organizations. Prerequisites: MAN 3504

TSL 4340 Methods, Cur, and Instr Effect   3 credits
Teaching methods, strategies and curriculum development activities that enhance and facilitate learning of diverse students and maximizes the opportunities to meet the state standards. It will also provide information relevant to the development of ESOL curriculum and various options for second language learners that will facilitate the access to the language arts curriculum and academic learning.

TSL 4520 Sec Lang Acquis Comm& Culture  3 credits
Second language acquisition, applied linguistics, and influence of cultural diversity on learning, communication, belief systems and value orientations and patterns of thinking and behaving including modifications and adaptations to meet the language needs of diverse students in the classroom.

TSL 5085 Methods of Teaching ESOL   3 credits
An overview of the theoretical foundations and applications of language instruction approaches, methods, and techniques effective in ESL classrooms, and teaching strategies for diverse learners. Emphasis will be given to making connections between research/theory/principles and best teaching practices and developing a philosophy on effective methods to use when working with English language learners.

TSL 5142 Curriculum & Material Develop   3 credits
Applications of the theories, principles and current research related to second language acquisition, as well as instructional techniques and materials. Program options for second language learners and focus on the development of skills and techniques for assessment, goal setting, teaching methods, and adaptation of materials for the second language learners’ varied needs.

TSL 5440 Testing & Eval for ESOL Teach   3 credits
Language assessment issues, opportunities to examine language assessment instruments, and practical experiences developing and using formal and informal assessment measure. Critical analysis, selection, and use of evaluation techniques for measuring ELL/LEP students performance in academic settings.

TSL 5525 Cross Cult Comm Issues in ESL   3 credits
Cultural issues in teaching English as a second language. An in-depth discussion of the concept of culture and helps teachers/students recognize its influence on learning, communication, belief systems and values orientations, and patterns of thinking and behaving. The focus is on providing information contributing to cultural competence including applying cross-cultural understanding to planning instructional settings involving culturally and linguistically diverse students.

TSL 6345 Meth Tchng Content ESOL: 6-12   3 credits
Instructional approaches, methods and techniques effective for secondary content teachers to meet the needs of culturally and linguistically diverse students including legal, pedagogical, and curricular issues. Emphasis on best teaching practices.

TSL 6527 Language & Culture   1 credits
Exploration of the interconnections between language and culture. Includes first and second language acquisition, family customs, cultural variations of narrative texts, and storytelling. Collection and analysis of data through research and interviews.

TTE 3002C Transportation Engineering   3 credits
The objective of this course is to give an overview of the profession of transportation, transportation systems and organizations, traffic operations, transportation planning and geometric design of highway facilities. Prerequisites: EGN 1041C for level UG with min. grade of C and STA 2037 for level UG with min. grade of C

TTE 4201C Traffic Engineering   3 credits
Practice of traffic engineering, fundamental concepts in the design, operation, maintenance, and planning of surface transportation systems, including road user, vehicle, and roadway system components and characteristics, congestion and mobility, roadway capacity, safety, and performance; traffic control devices, traffic management concepts, traffic studies; traffic technologies, and intelligent transportation systems. Prerequisites: STA 2037 for level UG with min. grade of C and TTE 3002C for level UG with min. grade of C (may be taken concurrently)

URP 5201 Methods of Planning Analysis   3 credits
An indepth review of the research process and methodological techniques used in planning analysis.

URP 5312 Growth Mgmt & Comp. Planning   3 credits
Introduction to the problems and opportunities related to growth management and comprehensive planning. Topics include public and private perspectives on growth; public policy and growth; and planning approaches associated with managing growth.

URP 5316 Land-Use Planning   3 credits
Land-Use Planning provides an overview of the philosophical, methods, formats, tools, and practices of land use planning in the
**WST 3015** Intro to Women's Studies 3 credits
Readings seminar in selected topics and problems in World history. Analyses are made of the changing political, social, economic, cross-cultural introduction to the role of women in society. Research in primary and secondary sources on aspects of important world civilizations. At least 6,000 words of graded written work are required.

**WST 3275** Women in the Developing World 3 credits
Survey of the status of women in Asia, Africa, Latin and Caribbean America, compared to that in the United States, Canada, West Europe, Marxist-Leninist countries.

**WST 4262** Lit. of Women of Color in U.S. 3 credits
Introduction to contemporary women writers of color in the United States: Native Americans, African-Americans, Asian-Americans, and Chicanas/Puerto Rican-Americans. Readings will include literature and contextual articles on historical and cultural issues. This course is cross-listed under AML 4274.

**WST 4264** Women in World History 3 credits
Survey of the status of women in Asia, Africa, Latin and Caribbean America, compared to that in the United States, Canada, West Europe, Marxist-Leninist countries.

**WST 4304** 20th Century World History 3 credits
History of the twentieth century. Major themes include the two world wars, nationalism and decolonization, the Cold War, globalization, and new social movements.

**WST 4305** Women in World History 3 credits
An examination of the role of gender as an ideology in shaping the political, economic, and social roles of women and men in Europe, the Americas, Africa, Asia, and Australia from 1600 to the present.

**ZOO 3205C** Invertebrate Zoology 3 credits
Course emphasizes concepts and unifying principles from phylogenetics, physiology, developmental biology, functional morphology, ecology, and paleontology while systematically surveying the major taxa of invertebrate animals. Laboratory intensive with field exercises. Prerequisites: BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C)

**ZOO 3272C** Ornithology 3 credits
This integrated lecture and lab course focuses on the origins and evolution, diversity, structural and functional adaptation, behavior, and ecology of birds, providing a global overview with an emphasis on Florida birds. Prerequisites: BSC 1010C OR (BSC 1010 and BSC 1010L)

**ZOO 4422C** Herpetology 3 credits
This course will give students knowledge of the taxonomy, identification, physiology, behavior, and natural history of reptiles and amphibians. Field trips and research projects will provide advanced study of species found in south Florida. Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L)) and (BSC 1011C OR (BSC 1011 and BSC 1011L))

**ZOO 4436C** Evolution of the Mammals 4 credits
Provides an opportunity for advanced study of mammalian biology in its evolutionary context. The entire spectrum of mammalian diversity is studied from the first known fossil mammals through all living and extinct clades. Mammalian anatomy, physiology, and behavior are also examined from an evolutionary perspective; utilizing the principles of cladistic analysis, each system is examined from its most primitive mammalian condition to the many unique derived conditions found among living and/or fossil mammals. Current controversies may be featured, and topics from molecular to organismal and ecological. The course will include the use of dissection and physiological laboratory techniques to study various topics.
ZOO 4454C Ichthyology 3 credits
Tracks the rise and evolution of fishes and examines the adaptations in form and function that underlie their success. Emphasis will be placed on Southwest Florida fishes.
Prerequisites: BSC 1011C (may be taken concurrently) OR (BSC 1011 for level UG with min. grade of C and BSC 1011L (may be taken concurrently))

ZOO 4472C Ornithology 3 credits
Evolution, structural and functional adaptations, behavior and ecology of birds. It includes a global overview with emphasis on Florida. Lab emphasizes anatomy, behavior, identification, and ecology. Field trips include study in Florida ecosystems. ~ Course replaced with ZOO 4272C, effective 201001
Prerequisites: BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C)

ZOO 4480C Mammalogy 3 credits
Integrated lecture and lab and focuses on the origins and evolution, diversity, structural and functional adaptations, behavior, and ecology of mammals. It presents a global overview with an emphasis on Florida mammals. Laboratory will emphasize, anatomy, behavior, identification, and ecology. Field trips will include zoo visits, studies of manatees and other Florida mammals, and an introduction to field research tools in mammalogy.
Prerequisites: (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) ) and (BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C) )

ZOO 4513C Animal Behavior 3 credits
This is an introduction to the study of Ethology, including the mechanisms, development, adaptations, and evolution of behavioral patterns.
Prerequisites: (BSC 1010C OR (BSC 1010 and BSC 1010L) ) and (BSC 1011C OR (BSC 1011 and BSC 1011L) )

ZOO 4743C Neuroscience 3 credits
In Neuroscience we will investigate the workings of human nervous systems. We will cover anatomy and physiology, neuropharmacology, and neurological correlates of behaviors such as sleep, emotions, hunger, and sex.
Prerequisites: (PCB 3703C for level UG with min. grade of C OR BSC 1086C for level UG with min. grade of C) and (BSC 1010C for level UG with min. grade of C OR (BSC 1010 for level UG with min. grade of C and BSC 1010L for level UG with min. grade of C) ) and (BSC 1011C for level UG with min. grade of C OR (BSC 1011 for level UG with min. grade of C and BSC 1011L for level UG with min. grade of C) ) and (CHM 1046C for level UG with min. grade of C OR (CHM 1046 for level UG with min. grade of C and CHM 1046L for level UG with min. grade of C) )

ZOO 4753C Histology 3 credits
A microscopic study of animal tissue covering epithelium, muscle, nervous and connective tissues with an emphasis on the morphological differences in tissue organization both for structural and functional purposes.
Prerequisites: ZOO 3713C for level UG with min. grade of C OR BSC 1086C for level UG with min. grade of C