<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Core Concepts in Accounting I</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 2071</td>
<td>Core Concepts of Accounting II</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 2091</td>
<td>Accounting Tools</td>
<td>2</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 3103</td>
<td>Financial Report &amp; Analysis I</td>
<td>4</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 3113</td>
<td>Financial Report &amp; Analysis II</td>
<td>3</td>
<td></td>
<td>Studies the measurement, reporting, and analysis of financial information under generally accepted accounting principles (GAAP) beyond Financial Reporting &amp; 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.</td>
</tr>
<tr>
<td>ACG 3341</td>
<td>Cost Accounting</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 3401</td>
<td>Accounting Information Systems</td>
<td>3</td>
<td></td>
<td>Primary processes, or cycles, of organizations; documentation of business processes; 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 transaction cycles, fraud and internal controls, and relational database structure. Prerequisites: ACG 2071 for level UG with min. grade of B and CGS 1100 for level UG with min. grade of B.</td>
</tr>
<tr>
<td>ACG 4123</td>
<td>Financial Report &amp; Analysis III</td>
<td>3</td>
<td></td>
<td>Studies the measurement, reporting, and analysis of financial information under generally accepted accounting principles (GAAP) beyond Financial Reporting &amp; Analysis II. Selected topics include deferred taxes, pensions, error analysis, cash flows, and full disclosure issues, post-retirement benefits, leases, accounting changes, (USF course - last offered Spring 1998). Prerequisites: ACG 3113 for level UG with min. grade of C.</td>
</tr>
<tr>
<td>ACG 4501</td>
<td>Government &amp; Not-for-Profit</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 4632</td>
<td>Independent Audit I</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ACG 4684</td>
<td>Fraud Investigation</td>
<td>3</td>
<td></td>
<td>The course further 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.</td>
</tr>
<tr>
<td>ACG 4901</td>
<td>Directed Study in Accounting</td>
<td>1-3</td>
<td></td>
<td>Students explore current topics in accounting. A detailed research project must be completed under faculty supervision. (Senior standing and permission of instructor required)</td>
</tr>
<tr>
<td>ACG 4939</td>
<td>Special Topics in Accounting</td>
<td>3</td>
<td></td>
<td>Topics of special or current interest, such as history and evolution of accounting standards, accounting methods for specific industries, and emerging issues. (Senior standing)</td>
</tr>
<tr>
<td>ACG 4940</td>
<td>Accounting Internship</td>
<td>3</td>
<td></td>
<td>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) (Departmental approval required) Prerequisites: ACG 3103 for level UG with min. grade of C and ACG 3401 for level UG with min. grade of C.</td>
</tr>
<tr>
<td>ACG 5655</td>
<td>Independent Audit II</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
| ACG 6025  | Accounting Fundamentals for Mgrs              | 3       |                                                                              | 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 3 credits
An examination of the role of accounting information in managing economic organizations. Emphasis on the efficient allocation and consumption 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 3401 and ACG 3113

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

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.
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<tr>
<td>AFA 3931</td>
<td>Sel. Topics in Afr. &amp; Dias. St</td>
<td>3</td>
<td>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 emphasis will be placed on discussing how these problems are (or are not) dealt with in our society.</td>
</tr>
<tr>
<td>AFA 4150</td>
<td>Africa &amp; the United States</td>
<td>3</td>
<td>An examination of the historical and current political, economic, and cultural relations between the United States and Africa.</td>
</tr>
<tr>
<td>AFA 4331</td>
<td>Social Inst. &amp; the Afr-Am Comm</td>
<td>3</td>
<td>A study of social institutions as they relate to the Africa-American Community.</td>
</tr>
<tr>
<td>AFA 4335</td>
<td>Women of Color in the U.S.</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AFH 3100</td>
<td>African History to 1850</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AFH 3200</td>
<td>African History since 1850</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AFH 3454</td>
<td>The Africans</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AFS 2250</td>
<td>Culture &amp; Society in Africa</td>
<td>3</td>
<td>African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.</td>
</tr>
<tr>
<td>AFS 3251</td>
<td>African Environments</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>AMH 2010</td>
<td>US History to 1877</td>
<td>3</td>
<td>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. Must meet state requirements for writing-intensive courses.</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>US History Since 1877</td>
<td>3</td>
<td>Survey of American history from the Reconstruction Era through the present. Special emphasis is given to critical social, cultural, and political movements and figures. Must meet state requirements for writing-intensive courses.</td>
</tr>
<tr>
<td>AMH 3100</td>
<td>American Colonial Hist to 1750</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3130</td>
<td>AM Revolution/Constitution</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3141</td>
<td>U.S. History 1800-1860</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3172</td>
<td>The Civil War</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3201</td>
<td>The U.S., 1877-1929</td>
<td>3</td>
<td>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).</td>
</tr>
<tr>
<td>AMH 3252</td>
<td>The U.S. since 1929</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3421</td>
<td>Early Florida</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3423</td>
<td>Modern Florida</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3571</td>
<td>African-Amer History to 1865</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AMH 3572</td>
<td>African-Amer Hist since 1865</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>
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
Examines 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 6577 African-American 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 American colonies. 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 4910  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 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 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. Must meet state requirements for writing-intensive courses.

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, anthropology and range methods and techniques employed in this field.
Fee Required

ANT 2511C  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.

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 3142 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 examined. An emphasis is placed on environmental setting and its relationship to cultural complexity and duration in the archaeological record.
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 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 examined. An emphasis is placed on environmental setting and its relationship to cultural complexity and duration in the archaeological record.
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 3158 Florida Archaeology 3 credits
Explores the cultural expressions of Florida's indigenous people from the Paeloindian period through the time of European contact and subsequent conquest. Overview of 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 3214 Topics in Regional Ethnology 3 credits
Concepts in anthropology explored through studies of particular regions of the world. Provides ethnographic examples in varied courses focusing on specific areas, such as Africa, South America, Asia, Middle East, or Southwest U.S. May be repeated once with a change in region covered.
Prerequisites: ANT 2000 or ANT 2410 or ANT 2211

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 perspective 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 or SYG 2010 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 a 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 delineates 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 or ANT 2000 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 activities in the traditional and modern societies, and 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. Must meet state requirements for writing-intensive courses.
Prerequisites: ANT 2000 for level UG with min. grade of C

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. Must meet state requirements for writing-intensive courses.
Prerequisites: ANT 2000 for level UG with min. grade of C or ANT 2511 for level UG with min. grade of C or ANT 2410 for level UG with min. grade of C

ANT 4525C Human Osteology 3 credits
Human Osteology is the study of human bones and dental anatomy. Designed to teach students how to identify fragmentary human bones and teeth by element, side, and anatomical landmarks. Includes labwork.
Prerequisites: ANT 2511 or BSC 2024C

ANT 4701 Applied Anthropology 3 credits
Applied anthropology is the practical application of any or all of the subfields of anthropology: cultural, archaeological 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 4907 Dir. Study: Cultural Immersion 3 credits
Students develop a proposal for self-designed cultural immersion experiences abroad or domestically. Students may also receive credit through this course for experiential and field immersion programs at other institutions.
Prerequisites: (ANT 2000 or ANT 2410) and (ANT 3610 or ANT 3495)

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 pre-program majors. Topics vary according to recent developments in Human Performance.

APK 3004C FND H/R Physical Fitness 3 credits
This course explores health-related physical fitness theories. It provides the student with a foundation to understand the relationship between health-related physical fitness and personal wellness throughout the lifespan.

APK 3132C 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.

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 4110L 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 healthy 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 2 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 4 credits
Capstone course synthesizing knowledge and skills gained throughout the Human Performance Program in a community-based experience. Explore the Human Performance professional’s role within interdisciplinary work environment during a16 week experiential learning opportunity. Additional information: Students work under the supervision of a community professional. Practice settings and course activities vary and are negotiated between the student and course faculty. Prerequisites: APK 4113C
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
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 Baroque Art 3 credits
Survey of art and architecture from Italy and Northern Europe during the fourteenth through seventeenth centuries. Emphasis is placed on analyzing works within their historical and cultural contexts. Prerequisites: ARH 2051 for level UG with min. grade of C or ARH 2050

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, chieftdoms, 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 4560 Chinese Contemporary Art 3 credits
This course will provide a survey of the dynamic forms of Chinese art produced by the individuals with shifting national, social, and personal identities, in the period since Mao's death and China announced reforms in 1978. Prerequisites: ARH 2051

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 from ancient to contemporary. This course may be repeated for a maximum of nine (9) credit hours. Prerequisites: ARH 2050 for level UG with min. grade of C and ARH 2051 for level UG with min. grade of C

ART 1201 Methods and Concepts I 3 credits
A foundation course providing students with an introduction to two-dimensional materials and processes, responsible studio practices, and art historical context. Emphasis on acrylic paint techniques and color theory. Fee Required

ART 1203 Methods and Concepts II 3 credits
A foundation course providing students with an introduction to three-dimensional materials and processes, responsible studio practices, and art historical context. Emphasis on sculptural techniques in a range of materials.

ART 1300 Drawing I 3 credits
Observational drawing with a variety of drawing media. The course combines in-class drawing with an introduction to the vocabulary of art, as well as discussions of examples of significant historical and contemporary two-dimensional art. Also covered are issues related to the verbal and visual presentation of student art works. Fee Required

ART 1301 Drawing II 3 credits
Advanced technical and conceptual drawing skills, with an emphasis on architecture, landscape, and the figure. Related historical and contemporary art works are reviewed. Prerequisites: ART 1300 for level UG with min. grade of C or ART 1300C for level UG with min. grade of C

ART 2500 Painting I 3 credits
Helps students develop the skills/methods of composing images, along with in-depth study of painting techniques. The course will cover related contemporary and historical examples, with a focus on 20th century American and European painting. Issues of presentation including framing, sequencing and discussing work in public will be addressed. Prerequisites: (ART 1201 for level UG with min. grade of C or ART 1201C for level UG with min. grade of C) and (ART 1300 for level UG with min. grade of C or ART 1300C for level UG with min. grade of C)

ART 2600 Intro to Computer Imaging 3 credits
Introduction to the creation of computer-generated images, image manipulation, appropriate hardware, and design software. Prerequisites: (ART 1201 for level UG with min. grade of C or ART 1201C for level UG with min. grade of C) and (ART 1300 for level UG with min. grade of C or ART 1300C for level UG with min. grade of C)

ART 2701 Sculpture I 3 credits
Covers basic sculptural processes: fabrication, carving, modeling, and casting. Modern and contemporary sculptural practices will be stressed, including installation and critical analysis. Prerequisites: ART 1203 for level UG with min. grade of C or ART 1203C for level UG with min. grade of C

ART 2759 Introduction to Ceramics 3 credits
A broad survey of ceramic products and practices, including the verbal and visual presentation of student art works. Fee Required

ART 3463 Alternative Printmaking 3 credits
Survey of acid-based printmaking processes including relief, monoprint, and collagraph. Students will create a portfolio of work displaying technical skill and personal conceptual development. Prerequisites: ART 1301

ART 3505 Painting II 3 credits
Students develop skills/methods of acrylic painting, and study historical and contemporary examples of art
making. Documentation and portfolio preparation will be discussed. 
Prerequisites: ART 2500 for level UG with min. grade of C or ART 2500C for level UG with min. grade of C or ART 2510C for level UG with min. grade of C

ART 3633 Web Design 3 credits
Principles of effective and functional website design, creation of websites using HTML, and website critique using internet-based course format and on-line learning methods.
Prerequisites: ART 2600 for level UG with min. grade of C or ART 2600C for level UG with min. grade of C or ART 2600C for level UG with min. grade of C

ART 3710 Sculpture II 3 credits
Continued experience in complex three-dimensional techniques emphasizing skills enhancement, conceptual development, contemporary and historical influences, and professional preparation.
Prerequisites: ART 2701 for level UG with min. grade of C or ART 2701C for level UG with min. grade of C

ART 3738 Casting and Mold Making 3 credits
Introduction to traditional and contemporary foundry techniques, includes projects in clay, plaster, bronze and concrete. Emphasis on advanced craftsmanship and the study of the history of cast sculpture.
Prerequisites: ART 2701 for level UG with min. grade of C or ART 2701C for level UG with min. grade of C

ART 3762 Wheel Throwing 3 credits
An intensive introduction to the potter's wheel. Includes both functional and non-functional forms, stoneware glazes, gas and electric kiln firing, and the history of utilitarian ceramics. Advanced craftsmanship expected.
Prerequisites: ART 2750 for level UG with min. grade of C or ART 2750C for level UG with min. grade of C

ART 3768 Clay Sculpture 3 credits
Using clay to explore sculptural form in vessel and non-vessel format. Earthenware firing range and contemporary ceramic art is emphasized, and advanced craftsmanship is expected.
Prerequisites: ART 2750 for level UG with min. grade of C or ART 2750C for level UG with min. grade of C

ART 3781 Raku Ceramics 3 credits
A survey of technical, historical and philosophical practices in raku ceramics, including both traditional and contemporary methods of forming (wheel throwing and handbuilding) and firing (pit, sagger, and glaze firings).
Prerequisites: ART 2750 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 artist 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 4382 Drawing Workshop 3 credits
Intensive study in contemporary drawing as an expressive medium. Course will encourage independence and conceptual development in a critique-centered environment emphasizing professional preparation. May be repeated for a maximum of 9 credit hours.
Prerequisites: (ART 3332 for level UG with min. grade of C) or ART 3332C for level UG with min. grade of C) or ART 3400 for level UG with min. grade of C

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) or ART 2500 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 2750 for level UG with min. grade of C or ART 2750C for level UG with min. grade of C

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. Junior standing required.

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 or ART 4923 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 laboratory course (ASL 2140L) to be taken concurrently. Corequisites: ASL2140L

ASL 2140L Basic American Sign Lang. Lab 1 credit
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: ASL2140

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 credit
A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment in ASL 2150. Corequisites: ASL2150

ASL 4161 Adv American Sign Language 3 credits
A continuation of the study of American Sign Language at the advanced level. Added emphasis on idioms, body language and facial expressions. Corequisites: ASL4161L

ASL 4161L Adv American Sign Language Lab 1 credit
An advanced laboratory course designed to accompany Advanced American Sign Language (ASL) and to provide practice of the material presented through live demonstration as well as audio/video tapes. Corequisites: SPA4161

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

ASN 2010 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 2011 Civ os Asia: South Asia 3 credits
A survey of South Asian civilizations and cultures. Subjects to be studied include the history, geography, anthropology, religion, economy, and politics of South Asia from ancient times to the present.

ASN 3412 Asian Environments 3 credits
The natural environments of Asia 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

ASN 4905 Directed Individual Study 1 to 4 credits
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.

AST 2002C Introduction to Space Science 3 credits
Introduction to the Solar System and Space Exploration, with an emphasis on standards based, hands-on and inquiry based activities. The class is intended for students who plan a career in formal or informal education.

AST 2004C Stellar Astronomy 4 credits
General principles of Astronomy and emphasis on the structure and evolution of stars, stellar systems, galaxies and the universe. Topics may include stellar birth and death, neutron stars and black holes, galactic distances and the expansion of the universe. Observing of stars, constellations, binary and variable stars, star clusters, nebulae.

AST 2005C Introduction to Astrobiology 3 credits
Introduction to general principles of Astrobiology emphasizing
standards based, hands-on and inquiry based activities. The class is intended for students who want an interdisciplinary scientific approach to explore the possibilities of extraterrestrial life. Fee Required

AST 2100C  Solar System Astronomy  4 credits
Historical and general principles of Astronomy with emphasis on the structure and evolution of the Solar System, the laws of planetary motion, and the physical aspects of the sun, planets, and interplanetary debris. The main objectives of the course are to familiarize you with the night sky, observing techniques and instrumentation of state of the art observatories, and to gain knowledge of the scientific process involved in astronomical discoveries.

AST 3211  Essentials of Astrophysics  3 credits
The physics and dynamics of stars, including star formation and stellar evolution. Also covers spectroscopy (with focus on stellar applications), binary stars and evolution, and exoplanets. Prerequisites: (PHY 2053C or PHY 2048C) and (AST 2100C or AST 2004C)

BCH 3023C  Biochemistry  3 credits
The biochemistry of lipids, carbohydrates, and nucleic acids will be investigated. The principles of enzyme function and metabolism will be incorporated. 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)

BME 3100C  Introduction to Biomaterials  3 credits
Examination of the structure, fundamental properties and functional behavior of materials such as metals, polymers, ceramics and composites used in medical devices and in biological systems, emphasizing mechanical, corrosion, and surface properties. Provides an introduction to biocompatibility with special emphasis on the interaction of biomaterials with cells and tissues including blood. Prerequisites: EGN 3331C for level UG with min. grade of C Corequisites: BME3403C

BME 3261C  Biofluid Mechanics  3 credits
Fundamentals of fluid mechanics and their application to systems in biology and physiology. Topics covered include: properties and statics of fluids; conservation of mass, momentum and energy in fluid flow; flow in closed conduits; dimensional analysis; and flow measurements. Prerequisites: EGN 3331C for level UG with min. grade of C and BME 3403C for level UG with min. grade of C

BME 3403C  Human Physiology Engineers I  3 credits
First course in a quantitative two semester sequence on human physiology for engineers. Includes overview of cells and tissues; energy and cellular metabolism; membrane dynamics; communication, integration, and homeostasis; the endocrine system, neurons and the nervous system; sensory physiology; muscles and control of body movement. Integrates modeling and simulation of physiological systems as well as computer-based experimentation. Prerequisites: EGN 1041C for level UG with min. grade of C and BSC 1010C for level UG with min. grade of C and CHM 1064C 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, blood flow, and control of blood pressure; mechanics of breathing; gas exchange and transport; the kidneys; fluids and electrolyte balance; digestion; energy balance and metabolism; endocrine 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 4722  Health Care Engineering  3 credits
In this class, students use the Engineering Design Method and Operations Management 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 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 explores 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: BSC1005L

BSC 1005L Biological Science Laboratory 1 credit
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

BSC 1010 General Biology I 3 credits
Intended for science majors. Principles of biology studied from the molecular to the cellular level incorporating basic biochemistry, cell doctrine, physical phenomena of life, elementary bioenergetics and biosynthesis, cellular and organismal reproduction and the gene concept.
Corequisites: BSC1010L

BSC 1010C Gen1 Biology w/Lab I 4 credits
Intended for science majors. The principles of biology are studied from the molecular to the cellular level. Topics may include basic biochemistry, the cell doctrine, the physical phenomena of life, elementary bioenergetics and biosynthesis, cellular and organismal reproduction and the gene concept. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.
Fee Required

BSC 1010L General Biology I Laboratory 1 credit
Intended for science majors. Laboratory experiments related to principles of biology studied from the molecular to the cellular level incorporating basic biochemistry, cell doctrine, physical phenomena of life, elementary bioenergetics and biosynthesis, cellular and organismal reproduction and the gene concept.
Corequisites: BSC1010

BSC 1011 General Biology II 3 credits
Intended for science majors. The examination of biological systems from the organismal level through the system level incorporating theory of evolution, biodiversity and systematics, and ecology.
Corequisites: BSC1011L

BSC 1011C Gen1 Biology w/Lab II 4 credits
Intended for science majors. Examines biological systems from the organismal level through the system level. Topics may include theory of evolution, biodiversity and systematics, and ecology. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.

BSC 1011L General Biology II Laboratory 1 credit
Intended for science majors. Laboratory experiments related to the examination of biological systems from the organismal level through the system level incorporating theory of evolution, biodiversity and systematics, and ecology.
Corequisites: BSC1011

BSC 1020C Human Systems 3 credits
The study of the basic principles of human biology intended for non-science majors. Investigates cell biology, reproduction and genetics and human anatomy and physiology including human impacts on ecological systems. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies.
BSC 1051C  Enviro Bio-SW Fla Environment  3 credits
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
Intended for health science majors. Investigates the structure and function of the human body systems, including: integumentary, skeletal, muscular nervous and endocrine systems. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies. (Strongly recommend student have CHM 1045C before A&P I&II)
Fee Required

BSC 1086C  Hum Anat & Physio w/Lab II       4 credits
Primarily intended for health science majors. Investigation of the structure and function of the human systems, including: cardiovascular, respiratory, renal, gastrointestinal, immune, and reproductive systems. The curriculum is inquiry based and fully integrated with a laboratory that emphasizes active learning strategies. (Strongly recommend student have CHM 1045C before A&P I&II)
Prerequisites: BSC 1085C for level UG with min. grade of C
Fee Required

BSC 1930L  Seminar in Medicine I       1 credit
This course provides a discussion and problem solving format of contemporary topics in medicine with reviews of the literature.

BSC 1930L  Seminar in Medicine II       1 credit
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 opportunity for service learning.
Prerequisites: BSC 2930L

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 2930L  Seminar in Medicine II       1 credit
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 3030  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 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 credit
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       1 to 3 credits
Individual study/research 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 students under the supervision of a faculty mentor in this Senior Capstone. The project is designed to hone skills in applying research
principles and obtaining practice in data collection and analysis.
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  1 credit
A continuation of the senior capstone and research 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
cuminate 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.

BSC 4933 Current Topics in Biology  1 credit
Special sessions exploring the literature in BiologicalSciences.
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  1 to 3 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 with a faculty mentor.
Prerequisites: (MCB 3020C and PCB 3673) or (MCB 3020C and ZOO 3713C) or (PCB 3673 and ZOO 3713C)

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. 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 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: PCB 3063C for level UG with min. grade of C and PCB 3023C for level UG with min. grade of C and BCH 3023C for

level UG with min. grade of C

BSC 4945C Integrated Research Experience  3 credits
Capstone for the B.A. in Biology with emphasis on applying educational experiences to the effective completion of guided research projects. Requires appropriate use of primary literature and statistics. Biological paradigms, ethics, and professionalism are included.
Prerequisites: ISC 3120 and PCB 3063C and PCB 3023C

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 covered include an overview of the legal system, contract and sales provisions of the Uniform Commercial Code (UCC), consumer protection laws, employment law, environmental law, securities regulation, and professional liability. ~ Course ended 201105

BUL 5831 Business Law II  3 credits
An in-depth study of the Uniform Commercial Code (UCC) and a survey of the laws governing the formation and operation of various business entities. Topics covered include negotiable instruments, bankruptcy, bailments, real property, trusts and estates, agency, partnerships, corporations, limited liability entities, and professional ethics. ~ Course replaced with BUL 6831, effective 201108.
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 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. ~Prerequisite: COP 3003 with a minimum grade of C.

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

CCE 4031 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

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

CCE 4070 Introduction to Criminalistics 3 credits
An introduction to the identification, collection, preservation, and presentation of physical evidence from crime scenes. Fee Required

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 attention is paid to the types of victims, theories of victimization, and the victim's treatment within the criminal justice system. 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. Models of decision-making, problem solving, and situational leadership are used to assess responses to current challenges facing criminal justice organizations.
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. Course replaced with CCJ 6198, effective 201108.

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 6707 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 6912 Ind. Rsrch-Forensic Behavioral 3 to 6 credits
Candidates work directly with supervising faculty to conduct
independent research specific to their degree concentration.
Prerequisites: CCJ 6707 or CCJ 6709

CCJ 6930 Spec Topics in CFS 3 credits
In-depth analysis of current and emerging issues relating to Criminal
Forensic Studies.

CCJ 6935 Special Topics in CJ Systems 3 credits
In-depth exploration, analysis and assessment of contemporary
topics of special concern to the admission of criminal/juvenille
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-Frmsc Bvrl 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  Geotechnical Engineering I  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 II  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 2001 for level UG with min. grade of C

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 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  Structural Analysis  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 and virtual work; and indeterminate analysis techniques such as the force method and displacement methods (slope deflection, direct stiffness and movement distribution) are used to determine forces and deflections in elastic structures. 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 applies them to the design of structural members, with emphasis on satisfying real-world needs. Topics include an introduction to the design of structural systems, design of steel tension and compression members, design of beams and beam-columns, and an introduction to connection design. All design is performed in accordance with codes and specifications used in current engineering practice. A comprehensive design problem requires development of a design methodology, consideration of alternative solutions, and design of an optimal steel structure to meet stated functional requirements.
Prerequisites: CES 3100C for level UG with min. grade of C

CES 4702C  Reinforced Concrete Design  3 credits
The objective of this course is to analyze and design reinforced concrete structural members. The topics covered in this course include, but are not limited to, flexural analysis and design of beams, properties of concrete and steel, fundamentals of reinforced concrete behavior, T-beams and slabs including flexural and shear behavior, deflections and crack control.
Prerequisites: CES 3100C for level UG with min. grade of C and CCE 3101C for level UG with min. grade of C

CGN 3323C  Surveying and Geomatics  3 credits
Introduction to elementary surveying practices such as autolevel, total station, global positioning system (GPS) as well as covering highlights of construction materials, tools, and techniques. In addition geomatics, the study of spatially related data, will be introduced. Instruction will cover the integrated approach of measurement, analysis, and management of the descriptions and locations of Earth-based data. This course is inquiry based and fully integrated with field experience that emphasizes active learning strategies.
Prerequisites: EGM 3420C

CGS 1100  Computer Software & Technology  3 credits
An introduction to computer hardware and software tools for knowledge workers. Software tools include spreadsheets, word processing, two- and three-dimensional presentation graphics, electronic mail, and network browsers. In addition, the course explores computer information systems in organizations and the use of computers to enhance productivity.

CGS 2010  Computers in Math Education  3 credits
Application of technology in Mathematics Education. Basic and Logo languages. Examination and evaluation of appropriate software for different levels of Mathematics.

CGS 3411  Computer Apps. for Math  3 credits
Students will develop competency in a high level programming language for secondary education majors.
Prerequisites: MAC 2311 for level UG with min. grade of C

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 credit
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

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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 credit
A laboratory designed to offer additional practice using various instructional technologies and media.
Corequisites: CHI1121

CHI 2201 Intermediate Chinese II 3 credits

CHI 2201L Intermediate Chinese II Lab 1 credit

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
Corequisites: CHM1045L

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. 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 1046C for level UG with min. grade of C

CHM 1046L General Chemistry II Lab 1 credit
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 1045 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

Fee Required

CHM 1084C Environmental Chemistry 4 credits
INTENDED For SCIENCE MAjorS. ~ chemistry in the context of applications to 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 1045 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) or CHM 2210L

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) )

CHM 2210L Organic Chemistry I Laboratory 1 credit
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 1046C for level UG with min. grade of C or
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
Fee Required

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 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)
Corequisites: CHM2211L

CHM 2211L Organic Chemistry II Laborator 1 credit
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 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) )
Corequisites: CHM2211
Fee Required

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 and PHY 2049C 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 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) )

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 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

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

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, crystal field theory, basic acid/base chemistry, crystalline solid state chemistry, electronic structure of atoms, symmetry groups, energetics, reaction pathways, mechanisms of inorganics, transition metal complexes, coordination chemistry, and synthesis of inorganic compounds and organometallics.
Prerequisites: (CHM 1046 and CHM 1046L) or CHM 1046C

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.
Prerequisites: CHM 3411 for level UG with min. grade of C
Corequisites: CHM4610
CHM 4905 Dir Ind Study/Res in Chem 2 to 4 credits
Individual study under the direction of a faculty mentor. Topic will be selected based on mutual agreement between the student and the faculty member.
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 )

CHM 4930 Special Topics in Chemistry 2 to 4 credits
Courses will be developed based on topics of current or special interest.

CHM 4931 Senior Capstone in Chemistry 3 credits
Students research an approved chemistry topic using current scientific literature or complete a faculty- approved lab project and present their results. Chemistry content knowledge from earlier courses is reviewed and proficiency is evaluated using exams.
Prerequisites: CHM 3005C for level UG with min. grade of C (May be taken concurrently) and CHM 4139C for level UG with min. grade of C (May be taken concurrently)

CHS 3501C Intro to Forensic Science 3 credits
Lecture and laboratory applications of the specialty areas in criminalistics (criminal analysis) including organic and inorganic analysis, physical evidence, hair, fiber, toxicology, arson, explosives, ballistics, serology, fingerprinting and DNA. ~ Course ended 201105
Fee Required

CHS 3505C Forensic Microscopy I 3 credits
The study of the light and polarized light microscope and its use in the identification and comparison of trace evidence. ~ Course ended 201105

CHS 3533C Forensic Analysis I 3 credits
An in-depth study in theory and laboratory application of presumptive, antigenic and enzymatic testing for the evaluation of biological samples for crime analysis. ~ Course ended 201105
Prerequisites: PCB 4233C and BCH 3032C

CHS 3595 Forensic Science in Courtroom 1 credit
Preparation of the forensic scientist in preparing for and participating in courtroom proceedings. ~ Course ended 201105
Prerequisites: CHS 3501C

CHS 4511C Forensic Microscopy II 3 credits
An advanced study of the techniques and application used to identify and compare trace evidence. ~ Course ended 201105
Prerequisites: CHS 3505C

CHS 4531C Forensic Toxicology 3 credits
Integrated lecture and laboratory study of the presumptive tests, isolation and instrumental techniques used in identification of controlled substances. ~ Course ended 201105
Prerequisites: BCH 3032C

CHS 4534C Advanced Forensic Analysis II 3 credits
An advanced study in theory and laboratory application of biological samples at the molecular level for crime analysis. ~ Course ended 201105
Prerequisites: CHS 3533C and PCB 3663C and MLS 4191C

CHS 4591L Forensic Science Internship 1 to 6 credits
Practical experience in a professional forensic laboratory. Departmental permission required. ~ Course ended 201105
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 4650 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.

Course ended 201105
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 veritification 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)
Fee Required

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 documenting & evaluating the body, establishing & recording decedent profile information, and completing the scene investigation. Second of two courses to qualify students to sit for the certification examination as a Medicolegal Death Investigator.
Prerequisites: CJE 6645

CJE 6748 Practicum-Human Identity 3 to 6 credits
The Criminal Forensic Practicum is a field experience in Human Identity analysis.
Corequisites: CCJ4933
Fee Required

CJE 6749 Ind. Research-Human Identity 3 to 6 credits
Candidates work directly with supervising faculty to conduct independent research specific to their degree concentration.
Prerequisites: CCJ 6707 or CCJ 6709
Fee Required

CJJ 3010 Juvenile Delinquency 3 credits
The nature and extent of delinquency. Focus is on completing explanatory models and theories, and the evaluation of prevention, control and treatment programs.

CJJ 4015 Juvenile Justice System 3 credits
History, philosophy, and evaluation of the juvenile court and juvenile court practices and procedures. Topics may include neglect, dependency and delinquency, jurisdiction of the court, and roles of the police officer, the correctional officer, and the social worker in the juvenile justice system.

CJJ 4018 Issues in Juvenile Justice 3 credits
In-depth analysis of contemporary issues in juvenile justice. Stresses research-based evaluation of policy and current state of the juvenile justice system including nonresearch-based influences on the system.

CJJ 4542 Criminal & Delinquent Behavior 3 credits
This course examines patterns of criminal and delinquent behaviors in light of theories and classification concepts.

CJL 4049 Issues - International Justice 3 credits
Contemporary issues in international justice, including historical and social perspectives. Explores the impact of justice issues on specific counties and the international community at large. Course replaced with CJL 4048, effective 201108.

CJL 4064 Constitutional Crim. Procedure 3 credits
Examination of the full range of rights in criminal justice, in particular the constitutional rights of an accused in criminal proceedings. Focuses on the US constitution, federal statutes, and case law.

CJL 4074 Legal Issues in Corrections 3 credits
Overview of the legal aspects of corrections, from conviction to release. Emphasis is on the practical, legal problems confronting the probation and parole officer and the corrections administrator.

CJL 4110 Substantive Criminal Law 3 credits
An introduction to the general principles of substantive criminal law. Discussion will include elements of specific crimes, the nature of criminality, mental states, defenses, jurisdiction, and sanctions. Focus will include Florida laws and basic legal research in criminal law.
CJL 4415 Law & Social Control 3 credits
The study of law and social structure, sociology of law, and formal control mechanisms. Examination of the philosophical, legal, and scientific modes of inquiry that are central to the study of law.

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 exculpatory 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. The course also attempts to arrive at solutions.

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; particularly 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

CLP 4302 Intro to Clinical Psychology 3 credits
Introduction to Clinical Psychology: Surveys scientific basis, training, roles, models, controversies, and ethics. Prerequisites: PSY 2012 and STA 2023 and CLP 4143 and (PSY 3017 or PSY 3044)

CLP 4314 Health Psychology 3 credits
Review of application of clinical psychology in behavioral medicine context. Emphasis on rehabilitation and prevention. 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

CLP 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: 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)

CLP 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: 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)

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.

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: 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
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 for level UG with min. grade of C or SPC 1017 for level UG with min. grade of C) or SPC 2023 for level UG with min. grade of C

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

COM 4930 Spec Topics in Communication 1 to 6 credits
Topics may vary from semester to semester, as may hours. Junior status is required.

COP 1500 Intro to Computer Science 3 credits
Introducing basic concept of computing: discrete models, computer architecture and organization, operating systems, programming languages, software design and construction, performance evaluation, with a focus on programming.
Prerequisites: MAC 1105 for level UG with min. grade of C or MAC 1147 or MAC 2157 or MAC 2311 or ACU5 for min. score of 066

COP 2001 Programming Methodology 3 credits
Advanced computer programming concepts and problem solving are explored using a procedural programming language and software tools. Topics include pointers, dynamic memory allocation, string handling, structures, file I/O, and recursion. Includes two hours of lecture and one hour of lab per week.
Prerequisites: COP 2006 for level UG with min. grade of C and MAC 2312 for level UG with min. grade of C

COP 2006 Introduction to Programming 3 credits
Introductory computer programming concepts and problem solving methods are taught. Students are required to learn a modern programming language. Principles of good programming style are emphasized. (Advisor Permit Required)
Prerequisites: COP 1500 for level UG with min. grade of C and MAC 2311 for level UG with min. grade of C and STA 2023 for level UG with min. grade of C

COP 2550 Programming Systems 3 credits
A range of modern programming systems from the imperative and declarative language paradigms is explored. Topics include selected procedural, object-based, parallel processing, logic, functional, and database languages.
Prerequisites: COP 3530

COP 3003 Object-Oriented Programming 3 credits
Computer programming concepts and problem solving are explored using an object-oriented programming language. Topics include use of predefined classes, creation of objects and classes, encapsulation using visibility modifiers, inheritance, class hierarchies, polymorphism, interfaces, exceptions, and steam I/O. Graphics and graphical user interfaces (GUIs) are explored. Depending two hours of lecture and one hour of lab per week. on the selected language, some language-specific features are introduced. Includes
Prerequisites: COP 2001 for level UG with min. grade of C
COP 3530  Data Structures  3 credits
Data structure design, implementation, application, and analysis are explored. Abstract data types (ADTs) are introduced. Topics include stacks, queues, linked lists, and trees. Recursion is revisited, the O notation is introduced, and computational complexity of searching and sorting algorithms are explored.
Prerequisites:  COP 3003 for level UG with min. grade of C and MAD 3107 for level UG with min. grade of C

COP 4610  Operating Systems  3 credits
Covers the key concepts, mechanisms, and structure that underlie operating systems. The fundamental components of operating systems including process management, scheduling, file and storage management, and I/O thread management, memory management, device management are explored. Contemporary design issues and current directions in development of operating system implementations are introduced. Examples of several prominent operating system implementations are introduced.
Prerequisites:  COP 3530 for level UG with min. grade of C and CDA 3104 for level UG with min. grade of C

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 2001  Intro to Comparative Politics  3 credits
Examination of different systems of government found among contemporary nation states with emphasis on the capacity of these political systems to meet the challenges of the 21st century.

CPO 3002  Comparative Politics  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
An examination of the economic and cultural forces that have given rise to contemporary Latin America. Key topics include democracy, human rights, economic integration, macro-trafficking and environmental sustainability.
Prerequisites:  ENC 1102 for level UG with min. grade of C

CPO 4755  Comparative Intergov Relations  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

CRW 2001  Intro to Creative Writing  3 credits
Practice in developing skills in composing and editing original creative work. Must meet state requirements for writing-intensive courses.
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 poetry; critiquing, editing, and revising original poetry; and preparing poetry for publication. Must meet state requirements for writing-intensive courses.
Prerequisites:  CRW 2001 for level UG with min. grade of C

CRW 6331  Poetry Writing Workshop  3 credits
Examination of poetic forms with an emphasis on the development of individual styles, writing and revising fiction and preparing it for publication.
Prerequisites:  CRW 2001 for level UG with min. grade of C

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; Bernoulli's principle; conservation of mass, momentum and energy in fluid flow; laminar and turbulent pipe flow; similarity and dimensional analysis; and flow measurements; laboratory. Prerequisites: MAP 2302 or with permission of instructor.

CWR 3202C Hydrology and Hydraulics 3 credits
This course studies both hydrology, which is the study of occurrence, movement and distribution of rainfall, and hydraulic design, which is the application of fluid mechanics and other science and engineering disciplines in the design of structures and development of water resources. Hydrologic principles are applied to model and analyze the distribution and movement of rainfall in a watershed. Hydraulic principles are applied to analyze and design flow through systems of reservoirs and channels. The course makes use of computer simulation models used in engineering practice. Prerequisites: CWR 3201C or with permission of instructor.

DAA 2000 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 2015 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 3018 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 or with permission of instructor.

DEP 4054 Developmental Psychology 3 credits
Survey of methods, empirical findings and theoretical interpretations in the study of human development across the life-span. Prerequisites: PSY 2012 or with permission of instructor.

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 or with permission of instructor.

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 or with permission of instructor.

EBO 4941 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 or with permission of instructor.
**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 component addresses economic decision-making by individuals and firms in a market economy. Resource allocation, supply and demand, market structures and the wealth effects of a market economy are covered. The macroeconomic component deals with output, employment, the business cycle and policy decisions at the national level. Open to graduate students without a previous background in economics.

**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 and growth; and an examination of alternative strategies and policies in solving the problems of environment quality and resource scarcity.  
Prerequisites: ECO 2023 and ECO 2013

**ECP 3530 Economics of Health Care 3 credits**  
An overall view of the U.S. health care system with a focus on demand for medical care, health insurance, hospitals, physician services, regulation versus competition for cost containment, alternative delivery systems, financing uncompensated care, Medicare prospect payment system, long term care and economic issues concerning health-related behavior.  
Prerequisites: ECO 2023

**ECP 3613 Urban Economics 3 credits**  
A study of urban development, location theory, economics of housing, local public finance, and urban problems associated with poverty, racial discrimination, and transportation.  
Prerequisites: ECO 2013

**ECP 3703 Managerial Economics 3 credits**  
A study of economic decision making by the firm in relation to the industry and the economic and regulatory environment in which it operates; to use economic analysis in economic decision making the business policy formulation; to apply macroeconomics in making decisions in anticipation of cost, revenue and profit behavior.  
Prerequisites: ECO 2023

**ECP 3905 Directed Independent Study 1 to 3 credits**  
Supervised undergraduate study in economic problems and policy 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. Consent of the instructor and departmental approval are required.  
Prerequisites: ECO 2013 for level UG with min. grade of C and ECO 2023 for level UG with min. grade of C

**ECP 3930 Special Topics 1 to 3 credits**  
Topics of current interest in economic problems and policy. The course may also offer advanced versions of courses presently
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. Visititation 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 prospective 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 7204 Program Evaluation 3 credits
Practical inquiry methods for the evaluation of programs, projects, teaching strategies, interventions, and/or organizational structures in
schools and other organizations.

EDA 7205 Applied Prog Eval Educ Ldrshp 3 credits
This seminar prepares students as critical, reflective evaluators of educational programs. Students demonstrate their knowledge of evaluation methodology and design by completing metaevaluations, and they present their metaevaluations for critical analysis and assessment.

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 EDG 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.
Prerequisites: EDE 4942 for level UG with min. grade of S
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 per week, for a total of 12 weeks. Educator Accomplished Practices and Florida Performance Measurement System, in teaching skills, in making classroom decision, and in thinking reflectively about decisions.
Prerequisites: EDG 3201 for level UG with min. grade of C and EDF 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 Tchg 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

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>EDF 2005</td>
<td>Intro to Teach Prof</td>
<td>3</td>
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<td>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. Fifteen hours of field experience in Pre-K - 12 schools required as part of this course.</td>
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<tr>
<td>EDF 2085</td>
<td>Intro to Diversity for Educ</td>
<td>3</td>
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<td>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. Fifteen hours of classroom and/or community observations required.</td>
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<tr>
<td>EDF 3122</td>
<td>Learning &amp; Developing Child</td>
<td>3</td>
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<td>Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.</td>
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<tr>
<td>EDF 3201</td>
<td>Diversity of Human Experience</td>
<td>6</td>
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<td>The complexity and variety of opportunities in early childhood, elementary and special education are explored. Each field, including 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.</td>
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<tr>
<td>EDF 3251</td>
<td>Classroom Org &amp; Management</td>
<td>3</td>
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<td>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.</td>
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<tr>
<td>EDF 3542</td>
<td>Philosophy of Education</td>
<td>3</td>
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<td>The basic cultural, social, historical, legal, financial, political, and governance, structures of American education and schooling; and, the nature of professionalism in democratic society.</td>
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<tr>
<td>EDF 3604</td>
<td>Sr Seminar: Social Fdnns of Ed</td>
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<td>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.</td>
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<tr>
<td>EDF 4112</td>
<td>Child Growth and Development</td>
<td>3</td>
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<td>Understanding of child growth and development, including atypical development and knowledge of contemporary theories and theorists.</td>
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<tr>
<td>EDF 4424</td>
<td>Measurement Eval in Classroom</td>
<td>3</td>
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<td>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.</td>
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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 Philosoric Foun. 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 perpetuate 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 Educ 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 correlational 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 7417 Advanced Quantitative Analysis 3 credits
A second-level course in quantitative analysis (statistics) for educational research. Includes multivariate methods such as Analysis of Covariance, Multivariate Analysis of Variance and Covariance, Multiple Regression, Path Analysis, Factor Analysis, Discriminant Analysis, and Logistic Regression.

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 Developmnt 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDG 6250</td>
<td>Curriculum Design &amp; Devel.</td>
<td>3</td>
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<tr>
<td></td>
<td>Overview of curriculum and development issues.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 6285</td>
<td>School Curriculum Improvement</td>
<td>3</td>
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<td></td>
<td>Open only to teachers in service. Complete faculty participation required.</td>
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<tr>
<td>EDG 6326</td>
<td>Learning, Account &amp; Assess</td>
<td>6</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>EDG 6356</td>
<td>Inst Models and Strategies</td>
<td>3</td>
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<td></td>
<td>Students analyze didactic and constructivist models and strategies and demonstrate the application of those supported by the current theory and research.</td>
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<tr>
<td>EDG 6363</td>
<td>Capstone Seminar</td>
<td>1 to 3</td>
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<td>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&amp;I program and the student's concentration themes.</td>
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<tr>
<td>EDG 6391</td>
<td>Instructional Leadership</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 6627</td>
<td>Found. of Curriculum &amp; Instr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 6631</td>
<td>Instruct Strat Diverse Learner</td>
<td>3</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 6705</td>
<td>Learn &amp; Tch Except Pops, 6-12</td>
<td>3</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 6931</td>
<td>Selected Topics in Education</td>
<td>1 to 4</td>
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<td></td>
<td>Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.</td>
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<tr>
<td>EDG 6935</td>
<td>Seminar in Curric Research</td>
<td>2 to 3</td>
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<td></td>
<td>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</td>
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<tr>
<td>EDG 6947</td>
<td>Internship</td>
<td>1 to 9</td>
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<td>Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate.</td>
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<tr>
<td>EDG 6971</td>
<td>Thesis: Masters</td>
<td>1 to 19</td>
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<td>Supervised Thesis Interdisciplinary Studies.</td>
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<tr>
<td>EDG 7046</td>
<td>Found Sustainability Educ Prac</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 7047</td>
<td>Sustainability: Global Issues</td>
<td>1</td>
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<td></td>
<td>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</td>
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<tr>
<td>EDG 7065</td>
<td>Hist Persp Crit Literacies</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 7221</td>
<td>Curriculum Theory</td>
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<td></td>
<td>Advanced graduate level course providing an analysis of the theoretical and research base which supports the various dimensions of the curriculum field.</td>
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<tr>
<td>EDG 7286</td>
<td>Curriculum Design Evaluation</td>
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<td>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.</td>
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<tr>
<td>EDG 7325</td>
<td>Multiple Pedagogies</td>
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<td>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.</td>
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<tr>
<td>EDG 7347</td>
<td>Transf Lrng thru Narrative</td>
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<td>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.</td>
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<tr>
<td>EDG 7362</td>
<td>Advanced Learning Theory</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDG 7635</td>
<td>Curr Persp Exceptionalities</td>
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<td>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.</td>
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<tr>
<td>EDG 7707</td>
<td>Diversity &amp; Global Stud in Ed</td>
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<td></td>
<td>Emphasis on cultural diversity in education and comparative international education. Seminar format with an on-site experiential</td>
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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 credit
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 & 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: EGD 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. Course replaced with EEC 4307 Prerequisites: (EDF 3201 for level UG with min. grade of C) or EGD 3201 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: EGD 3201 for level UG with min. grade of C and EDF 3201 for level UG with min. grade of C
Innovative curriculum designs in Early Childhood Education, with emphasis on self evaluation of knowledge, skill growth and development and relationship to curriculum planning.

Field placement in kindergarten or primary grade with min. grade of C and EEC 4303 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.
Prerequisites: EEC 4942 for level UG with min. grade of S
Corequisites: EEC4940

EEC 4940 Internship: Early Childhood 9 credits
Semester-long internship, five days per week, to refine and demonstrate effective teaching practices. Students will assume the teacher role in selected schools or agencies.
Prerequisites: EEC 4942 for level UG with min. grade of S
Corequisites: EEC4936

EEC 4942 Integrated Field Exp. - EC 3 credits
Semester-long field experience, two days per week, to observe and demonstrate effective teaching practices. Students will partially assume the teacher role in selected schools or agencies.
Prerequisites: EEC 3268 for level UG with min. grade of C and EEC 4307 for level UG with min. grade of C and SSE 4343 for level UG with min. grade of C and RED 4350 for level UG with min. grade of C

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 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.
Prerequisites: EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C

EEX 4070 Intgr. 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.
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

EEX 4221 Educ Assess of Exceptional 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.
Prerequisites: EEC 3268 for level UG with min. grade of C and (EEC 4307 for level UG with min. grade of C or EEC 4300 for level UG with min. grade of C)

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 of students with disabilities, including gifted and talented. This course is required for all of the department's.

EEX 4254 Tchng 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.
Prerequisites: EEX 4050 for level UG with min. grade of C

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.
Prerequisites: EEX 4050 for level UG with min. grade of C

EEX 4604 BehavMgmt SpecNeed/AtRisk Stud 3 credits
Establishing and maintaining order in the classroom, teaching children requisite social skills, helping children learn how 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.
Prerequisites: EEX 4942 for level UG with min. grade of C
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.
Prerequisites: EEX 4942 for level UG with min. grade of S
Corequisites: EEX4936

EEX 4942 Integr 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.
Prerequisites: EEX 4474 for level UG with min. grade of C

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 AdvPsychEd 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 Teaming in Early Childhood 3 credits
A study of team models for service delivery, 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 professional 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 ConsultCouns&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 AC5 for min. score of 066

EGN 1041C Computational Tools for Eng 2 credits
Introduction to logical problem solving strategies and 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
Fee Required

EGN 3373C for level UG with min. grade of C and MAC 2313 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. ~ Course ended 201105
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 BME 3261C for level UG with min. grade of C) or (ENV 3006C for level UG with min. grade of C and EES 3204C for level UG with min. grade of C and ENV 3502C 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. ~ Course ended 201105
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.

EGN 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.

EGN 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.
EGL 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 Disabil  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 6930  Intro to Tech in Educ.  3 credits
Introduction to computers and technologies, and their function in the classroom to augment the teaching and learning processes.

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

EME 5053  Intro to Educational 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 6936  App. of Comp as Ed Tools  3 credits
Selected topics in the application of computing and technology to the teaching and learning process. Separate sections will focus on different programming languages such as Logo, VisualBasic, Hyperscripting, Java, and Javascripting.  (Computer literacy advised)

EME 6941  Pract. Specific Learn 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 Tech in Educ.  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 6930  Intro to Programming  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 corequisite 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 EducStrat-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. Must meet state requirements for writing-intensive courses.

ENC 1102 Composition II 3 credits
Instruction and practice in the skills of writing and reading. Must meet state requirements for writing-intensive courses.
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) ~ Course replaced with CRW 2732, effective 201108.
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. Must meet state requirements for writing-intensive courses.
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. Must meet state requirements for writing intensive courses. ~ Course ended 201108.
Prerequisites: ENC 1101 for level UG with min. grade of C and ENC 1102 for level UG with min. grade of C

ENC 4930 Selected Topics in Writing 3 credits
Selected Topics in writing with an emphasis on advanced writing skills in a variety of modes.
Prerequisites: ENC 1102 for level UG with min. grade of C

ENC 6317 Article and Essay Workshop 3 credits
Examination of the elements of effective expository writing, including critiquing, editing revising and preparing manuscripts for publication.

ENC 6745 Seminar in CompositionPedagogy 3 credits
Fundamentals of teaching composition. Covers topics such as teaching methods and culture, criticism, writing anxiety, textbook selection, gender and culture issues in the classroom, and appropriate performance expectations in the variety of writing tasks in the liberal arts and sciences.

ENC 6930 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 3112 Literary Approaches to Film 3 credits
Students will learn how to “read” a film as a literary text. This course will provide students with a basic overview of film genres. Topics will include the basic elements of film production; the hallmarks of major genres such as comedy and film noir; film terminology and major critical approaches; and a brief history of film. They will gain exposure to seminal films in a variety of genres including film noir, musicals, and science fiction. In this lecture and discussion-based seminar, students will analyze films and test their ideas in the public sphere.
Prerequisites: ENC 1102

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 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.

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 4114 Film Adaptation 3 credits
In this hybrid literature/film course that considers the two genres as they intersect, advanced students will have the opportunity to formulate their own opinions about the impact of the motion picture on narrative. Grounding their work in an understanding of the history, culture, vocabulary, and field of film study, students will analyze a variety of film adaptations. Students will consider each film as a new aesthetic entity alongside its original literary source material. The readings for this course include advanced theory and criticism.
Prerequisites: ENG 3014

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 4137 Selected Topics/British Lit 3 credits
Depth study of a particular topic or issue as it is dealt within British literature and culture. This course may be repeated with a change in content.

ENL 4185 Shakespeare & Eliz Culture 3 credits
Examination of the life and times of one or more British author. May be repeated once with a change in content.

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 4335 Studies in Shakespeare 3 credits
Study of Shakespeare's works within the context of Elizabethan society and culture. 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 within 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. Prerequisites: ENG 3014

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 6930 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 & Lrning 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
Environmental engineering dimensions and units. Material and energy balances, kinetics, stoichiometry, and reactors. Ecosystems. Water Quality, Water Supply, Water Treatment. Wastewater Collection, Wastewater Treatment, Wastewater Re-use. Solid Wastes, Hazardous Wastes. Air Quality, Atmospheric Pollution Control, Climate Change. Risk. Laboratory Safety. Prerequisites: PHY 2048C for level UG with min. grade of C and MAC 2312 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) Fee Required

ENV 3502C Water Treatment Engineering 3 credits
The theory and design of unit operations normally used in the practice of Environmental Engineering for the production of potable water and the physical and chemical treatment of waterborne contaminants. Prerequisites: ENV 3006C 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 4341 Solid & Hazardous Waste Mgmt 3 credits
Generation of solid and hazardous waste. Collection, separation and disposal methods, equipment, and costs. Rules, 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. ~ Course ended 201105 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. ~ Course replaced with ENV 4341, effective 201008. 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

EN 4509C Wastewater Engineering 3 credits
The theory and the design of processes normally used in the practice of environmental engineering for the treatment of wastes. Biological Processes important to the cycling of carbon, nitrogen, phosphorus and energy in ecosystems; the impact of biological systems on pollutant fate and transport. Prerequisites: ENV 3006C for level UG with min. grade of C

ENV 4612 Sustainability in Engineering 3 credits
Sustainable practices are defined and green engineering principles are directed towards engineering design. Life cycle analyses are used to assess environmental, economic, and societal impacts to evaluate material choices, construction practices, water and waste treatment practices, transportation infrastructure, policy and planning, agricultural practices, and energy generation and consumption. 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. ~ Course replaced with ENV 4612, effective 201008. 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 Curr&Instr: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 credit
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 preceded 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 2 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 2012 Roman Republic and Empire 3 credits
Survey of Roman history from the foundation of the city to the fall of the Western Roman Empire.

EUH 2015 Classical Greece 3 credits
Close study of the government and history of Athens and Sparta in the Classical period, with special attention to Peloponnesian War and its aftermath for Greek civilization.

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 led 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 of 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.

Fee Required

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 S (May be taken concurrently)

Fee Required

EVR 4920 Current Topics Environ Studies  1 credit
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. ~ Course replaced with EVR 4043C, effective 201108.

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 Watr 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. Course replaced with EVR 6237, effective 201108.

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 Enviromental 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 6649 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 credit
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

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: FIN 3403 or PSY 2012 or PSY 3017

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 indepen-...
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, arbitraging, 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 InvestmentFund 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 for practical application of knowledge acquired in the classroom. (Department approval required) (S/U only)

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 objectives, environment and institutions. 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. Coverage will include individual portfolios and mutual fund analysis.
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 6606 Corporate Finance 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 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)
Prerequisites: FIN 5405

FRE 1120 Beginning French I 3 credits
First 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 credit
This is the lab that accompanies FRE 1120.
Corequisites: FRE1120L

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 credit
This is the lab that accompanies FRE 1121.
Prerequisites: (FRE 1120 and FRE 1120L) or (FRE 1100 and FRE
1100L)
Corequisites: FRE1121L

FRE 2220 Intermediate French I 3 credits
Continue development and review of basic French language skills
through intensive communication, reading, writing, and culture.
Prerequisites: FRE 1120 and FRE 1120L and FRE 1121 and FRE
1121L
Corequisites: FRE2220L

FRE 2220L Intermediate French I Lab 1 credit
Continue development and review of basic French language skills
through intensive communication, reading, writing, and culture.
Prerequisites: FRE 1120 and FRE 1120L and FRE 1121 and FRE
1121L
Corequisites: FRE2220

FRE 2221 Intermediate French II 3 credits
Continue development and review of basic French language skills
through intensive communication, reading, writing, culture.
Prerequisites: FRE 2220 and FRE 2220L
Corequisites: FRE2221L

FRE 2221L Intermediate French II Lab 1 credit
Continue development and review of elementary level through
intensive communication, reading, writing, culture.
Prerequisites: FRE 2220 and FRE 2220L
Corequisites: FRE2221

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 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 student teams 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 credit
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: GER1120 and GER1120L
Corequisites: GER1121L

GER 1121L Beginning German II Lab 1 credit
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: GER1120 and GER1120L
Corequisites: GER1121

GER 2220 Intermediate German I 3 credits
Continues development and review of basic German language skills
through intensive communication, reading, writing, and culture.
Prerequisites: GER 1120 and GER 1120L
Corequisites: GER2200L

GER 2220L Intermediate German I Lab 1 credit
Continues development and review of basic German language skills through intensive communication, reading, writing, and culture.
Prerequisites: GER 1120 and GER 1120L and GER 1121 and GER 1121L
Corequisites: GER2220

GER 2221 Intermediate German II 3 credits
Continues development and review of basic German language skills through intensive communication, reading, writing, culture.
Prerequisites: GER 2200 and GER 2200L
Corequisites: GER2221

GER 2221L Intermediate German II Lab 1 credit
Continues development and review of basic German language skills through intensive communication, reading, writing, culture.
Prerequisites: GER 2200 and GER 2200L
Corequisites: GER2221L

GEY 2000 Aging and the Life Course 3 credits
Examination of aging across the life span. Effects of societal norms and social institutions on the aging experience of individuals and the population will be explored.

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. Topics include demographics, roles and responsibilities, family relationships, formal and informal caregiving, housing, financial, legal and other sociological concerns.
Prerequisites: GEY 3001 (May be taken concurrently)

GEY 3045 Nutrition for Older Adults 3 credits
Nutritional requirements and physiological changes associated with aging. Social, cultural and psychological factors which affect nutritional status of the older adult and strategies for health promotion and disease prevention will be addressed.

GEY 3302 Communicating With Older Adults 3 credits
Interdisciplinary course focusing on compassionate communication with diverse older adults, including those with disabilities. Addresses principles, concepts, processes and practice of communication skills critical to interacting with older adults in various health and cultural settings.
Prerequisites: GEY 3001 (May be taken concurrently)

GEY 3320 Programs for Older Adults 3 credits
Examination of federal, state and local programs and services for frail and well older adults; and an understanding of the major issues and trends involved in existing and proposed services in the field of aging.
Prerequisites: GEY 3001

GEY 3601 Aging and Human Performance 3 credits
Information on the physical, sensory, and cognitive changes in aging; effects of stress, medication, and nutrition on older adults; and improving the health and independence of older adults through exercise and an active lifestyle.

Prerequisites: GEY 3001

GEY 4643 Later Life Transitions 3 credits
Interdisciplinary course explores contemporary matters affecting diverse older adults through aging to the end of life. Issues regarding quality of life, elderly rights, loss, grief, dying, death, finances, legal, ethical, and social concerns will be addressed. Course replaced with GEY 4640, effective 201108.
Prerequisites: GEY 3001 (May be taken concurrently)

GEY 4644 Psychosocial Aspects of Aging 3 credits
A detailed overview of psychological and social factors for professionals working with the elderly in a variety of settings.
Prerequisites: GEY 3001

GEY 4903 Directed Study in Gerontology 1 to 6 credits
Supervised study of gerontology topic. Content is selected by students in conjunction with their course director. The course broadens knowledge and may include a practice experience.
Prerequisites: GEY 3601 and GEY 3320 and GEY 4644

GEY 4930 Topics in Gerontology 1 to 6 credits
Current concept, selected problem, or issue in gerontology is examined. The topic covered varies according to recent developments in gerontology. The course may be repeated for different topic areas.

GEY 4941 Practicum in Gerontology 3 credits
Under the supervision of a community gerontology preceptor the student gains practical experience and applies knowledge gained in the gerontology core.
Prerequisites: GEY 3601 and GEY 3320 and GEY 4644

GEY 4943 Intergenerational Interaction 3 credits
Focuses on skill development in the promotion of health, safety, and psychosocial needs of older adults. Activities promote 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. Pract. 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. Pract 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 Ethnogerontology: 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. Psychosocial issues are explored with an emphasis on assessment, adjustment to change and 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. ~Course ended 201105

GLY 3420C Tectonics and Marine Geology 4 credits
This course will cover the basic principles of plate tectonics, and how these apply to the Earth and Terrestrial Planets. Close attention will be given to the ocean floor because this is where the fundamental concepts of plate tectonics were first observed and are well exposed.
Prerequisites: GLY 1000C for level UG with min. grade of C

GLY 3603C Geobiology 3 credits
Reviews the basic principles of paleontology and its application to problems in the geological, biological & environmental sciences.
Prerequisites: GLY 1010C for level UG with min. grade of C or GLY 1000C for level UG with min. grade of C

GLY 4074C Meteorology & 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 1045C for UG with min. grade of and (CHM 1045C for UG with min. grade of or (CHM 1045 for UG with min. grade of and CHM 1045L for UG with min. grade of ) ) and GLY 1000C for level UG with min. grade of
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 credit
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.

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 Resourc 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, contracts, safety, loss and government regulations are studied.

**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 & HM Senior Seminar  3 credits
Integrative experiences through which students analyze and assess 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.
theories, policies and practices in the resort & hospitality industry. Leadership, productivity, ethics, and problem solving are explored.

HFT 4342 Resort & Rec. Plan, Prog & Des 3 credits
Examination of the fundamental concepts, specific principles and process of planning and designing resorts and resort recreation facilities, that fulfill visitor/guest recreation and facility expectations, and function efficiently to release profit. Methods & techniques of recreation and leisure activities programming, organization, implementation and evaluation related to resort and club operations are studied.

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 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 managers 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.

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 assigns 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 3317 Film and History 3 credits
Motion pictures and television deluge us with dramatic images of the past and present. Often our perceptions of the past are shaped by experiences with visual media. Using excerpts from popular films, documentaries, and television, this course will explore a range of important questions: How do visual media shape our perceptions of the past? How can we evaluate the accuracy and reliability of motion picture recreations of the past? In what ways can motion pictures serve as "history"?

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
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<tr>
<th>Course Code</th>
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<tr>
<td>HSA 3111</td>
<td>US Health Care Systems</td>
<td>3</td>
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<td>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.</td>
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<td>HSA 3124</td>
<td>Comparative Hlth Srv Del Sys</td>
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<td>Overview of the major models for provision and financing of health care used around the world.</td>
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<td>HSA 3150</td>
<td>Health Care Policy in US</td>
<td>3</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HSA 3412</td>
<td>Transcultural Health Care</td>
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<td></td>
<td>Explore the culture, values and belief systems of health care clients who speak different languages and come from distinct cultural backgrounds.</td>
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<tr>
<td>HSA 3111</td>
<td>Principles of Managed Care</td>
<td>3</td>
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<td>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.</td>
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<tr>
<td>HSA 4109</td>
<td>Program Planning &amp; Evaluation</td>
<td>3</td>
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<tr>
<td></td>
<td>Basic concepts of planning and evaluation as the fundamental tools of program design and development in health services organizations. Prerequisites: IHS 4504</td>
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<td>HSA 6645</td>
<td>Postcolonial Theories</td>
<td>3</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HSA 4191</td>
<td>Health Care Info Systems</td>
<td>3</td>
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<td></td>
<td>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.</td>
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**Course Descriptions**

- **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 themes or topics 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 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 3150** 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 324** Comparative Health Services 3 credits
  - Overview of the major models for provision and financing of health care used around the world.

- **HSA 3111** 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 3124** Comparative Health Services 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 Svcs 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 4871  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. Special Conditions: Admission to the B.S. program in Health Science 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 practical 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 Science program and completion of prerequisite courses; or consent of the Department Chair.
Prerequisites: HSA 5115 (May be taken concurrently)

HSA 5112  Comp. Hlth Svs. 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. The content includes management styles, leadership issues, organizational behavior, motivation, 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. Students gain skills necessary to interpret and negotiate a managed care contract and its complex 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 is placed on organizational management and operations is placed on control, federal and state regulations, codes and statutes related to long term care in the United States, and particularly in Florida. Special Conditions: Admission into the College of Health Professions MS in Health Science program and completion of all prerequisite courses; or consent of the Department Chair.

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 the 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 Svcs 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 Serv 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 6933 Entrepre 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
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<td>Health Counseling</td>
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<td>HSC 3201</td>
<td>Healthy Communities</td>
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<td>HSC 3208</td>
<td>Health Education Foundations</td>
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<td>HSC 3243</td>
<td>Teach &amp; Learn in Health Prof</td>
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<td>HSC 3582</td>
<td>Occupation and Participation</td>
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<td>HSC 3720</td>
<td>Health Persp &amp; Assessment</td>
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<td>HSC 4150</td>
<td>Impacts of Substance Abuse</td>
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<tr>
<td>HSC 4231</td>
<td>Client Ed in Health Care</td>
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<td>HSC 4241</td>
<td>Needs Assmt &amp; Program Plan</td>
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<td>HSC 4250</td>
<td>Task Analys &amp; Curr Dev in HP</td>
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<td>HSC 4250</td>
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<td>HSC 4300</td>
<td>Epidemiology</td>
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<td>HSC 4305</td>
<td>Statistical Meth for Hlth Care</td>
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<td>HSC 4320</td>
<td>Healthy Communities</td>
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<td>HSC 4350</td>
<td>Health Prof Pract Correlation</td>
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<td>HSC 4418</td>
<td>Practicum in Health Prof Educ</td>
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<td>HSC 4419</td>
<td>Practicum in Health Prof Prac</td>
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<td>HSC 4450</td>
<td>Dir Study: Hlth Prof Education</td>
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<td>HSC 4450</td>
<td>Dir Study: Health Prof Prac</td>
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Prerequisites:

- HSC 3201 for level UG with min. grade of C
- HSC 3243
- HSC 4243
- HSC 3720
- HSC 3243
- HSC 4250
- HSC 4250
- HSC 4304
- HSC 4304

Related diseases.
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 5260 Teaching Meth for Health Profs 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. Students work independently to research a teaching strategy and to apply 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 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 experience must be consistent with the goals and mission of the 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 Prof. 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 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. This 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 3201 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 and HUS 3601 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 conducted by other human services professionals. Introduction of basic statistical applications and the use of program software in generating statistics.

HUS 4442 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 4505 Ethics in Human Services 3 credits
Ethical issues encountered by human services professionals and ethical theory within the context of administrative discretion, vary.

HUS 4526 Issues in Mental Health 3 credits
Current issues and topics in mental health of concern to Human Services providers in Southwest Florida.

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 Intl & 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 Socioeconomic factors in health and access to health care. Exact content will vary with contemporary conditions and faculty expertise.

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 4853 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 4505 Corequisites: HUS4931

HUS 4901 Directed Study in Human Svcs 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 provides 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 provides 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 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 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 credit 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 credit  
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 current courses 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 learning styles and ways of knowing and will have the opportunity to identify and learn more about their respective learning styles in their first semester at Florida Gulf Coast University.

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 credit  
Exploration of selected topics in interdisciplinary studies.

IDS 3143 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 3197 Reflecting on the Holocaust 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 3200 Foundations of Civic Engagement 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 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.

IDS 3304 Issues in Ecology & Environment 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 methods. Stresses critical, creative, and collaborative thinking and application of communication, information, and technological skills.

IDS 3332 Issues in Culture & Society 3 credits  
Examines selected contemporary cultural/social 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 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 UW with min. grade of C or IDS 3332 for level UG with min. grade of C or IDS 3303 for level UW with min. grade of C or IDS 3143 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.

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 alliances in changing environments; and organizational ethics.

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.

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

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. The course evaluates health care issues and their effects on health professions, interdisciplinary health professions practices, and health services policies in the various selected countries. Special emphasis is placed on health policies from an economic, poltical, 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 for health services are integrated within the course and through 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 Aspct 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. Projects and simulations are integrated within the course to enhance 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 pre-requisite 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 emphasized. Students demonstrate synthesis of course content and 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 examines the students' culminating experiences 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 Professions MS in Health Science program, completion of all pre-requisite courses, completion of career concentration core; or consent of the Department Chair.
Prerequisites: IHS 6112 and IHS 6500

INP 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 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 Int'l 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 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.

INR 4910 Directed Independent 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.

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 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 2211L 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 Science 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 Interdisc Nat Sci 2 to 4 credits
Supervised internship in a field or laboratory setting. A Satisfactory "S" or Unsatisfactory "U" grade will be assigned.

ISM 2051 Intro Website Development w/DB 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 2940 Exploration of Info Technology 1 to 3 credits
Students will complete an approved internship at a local business exploring options in careers in information systems. (Department approval required) (S/U only)
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; various database administration 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: (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 database 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 Integration 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 apply IT strategies in the design of an Internet-based enterprise (E-Commerce)--including on-line presentation of e-business plan and enterprise resource planning (ERP) strategy.

ISM 6045 Implications of IT 3 credits
Digitization of information and the rise of global networks are enabling new relationships among organizations, new opportunities, and new ways of working. 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 3212

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 technological changes, economic conditions, political ideologies, social structures, manifestations of culture and impacts on changing social patterns.

ISS 2200 Intro to International Studies 3 credits
Introduction to International Studies, the inter-disciplinary 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. ~ Course ended 201108.

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. Prerequisites: EDG 4343 for level UG with min. grade of C

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. 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

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. Prerequisites: EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C

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 writing into content classrooms using language across the curriculum and reading in the content 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.

LAE 6415 Literature & the Learner 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 the learner.

LAE 6465 Adolescent Literature 3 credits
Advanced study of the types of literature read by early adolescents and young adults. Emphasis on criteria for selection of literature, print and nonprint media for middle and high school teaching.

LAE 6616 Trends in Lang Arts Instruct 3 credits
Significant concepts, emerging trends, research, and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.

LAE 6790 Capstone Seminar: Eng Ed 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. Prerequisites: Permission of instructor

LAE 6923 Writing Workshop II 3 credits
For teachers who have been accepted as Summer Teacher Consultant in the National Writing Project at Florida Gulf Coast University. Permission of Instructor only.

LAE 6945 Internship in English, 6-12 6 credits
The M.A.T. program internship secondary education is to enhance the teaching experience by creating situations in which the intern will integrate theoretical knowledge from previous education courses with the 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.

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 3430 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 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 6137 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 6306 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 6439 History of Mexico 3 credits
The history of Mexico from the 14th century to the present. Deals in depth with the development of pre-Columbian civilizations, the Spanish conquest, the establishment and maturation of colonial society, independence and the Mexican Revolution.

LAH 6475 Caribbean History 3 credits
The history of the Caribbean from the 16th century to the present. Deals in depth with European colonialism, slavery and abolition, struggles for independence and sovereignty, globalisation and Diaspora, and popular culture.

LAH 6915 Research Lat Am Hist 3 credits
Research in primary and secondary sources on aspects of important subjects in Latin American history.

LAH 6939 Seminar Lat Am Hist 3 credits
Readings seminar in selected topics and problems in Latin American history.

LAS 2000 Intro. to Latin Amer. Studies 3 credits
Overview of Latin American social structure and factors which support or impede social change, collaboration and cultural maintenance. Must meet state requirements for writing-intensive courses.

LAS 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.

LAT 1120 Beginning Latin I 3 credits
Intensive study of the basic elements of Latin with appropriate readings and some exposure to the life and culture of ancient Rome. Corequisites: LAT1120L

LAT 1120L Beginning Latin I Lab 1 credit
Intensive study of the basic elements of Latin with appropriate readings and some exposure to the life and culture of ancient Rome. Corequisites: LAT1120

LAT 1121 Beginning Latin II 3 credits
Intensive study of the basic elements of Latin with appropriate readings and some exposure to the life and culture of ancient Rome. Prerequisites: LAT 1120 and LAT 1120L Corequisites: LAT1121L
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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 instructors may choose to integrate literary production with 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."

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.

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, and South America. Students explore literary techniques, contextual influences 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 4934 Advanced Topics in Crit Theory 3 credits
Intensive study of major figures, works, and themes in literary and critical theory with an emphasis on the 20th century.

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
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
Trigonometry and analytic geometry, with applications. Topics include trigonometric functions, graphs of trig functions, identities, solving triangles, vectors, polar coordinates, conic sections, equations of conics, eccentricity and polar equations, parametric curves. This course is designed to meet teacher certification requirements for middle grades mathematics. *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, linearization of functions, Mean Value theorem, antiderifferentiation, extrema and curve sketching, area and the definite integral, fundamental theorem. *Meets Gordon Rule for
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 and surfaces 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.
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 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 antiderivatives, parametric 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 differentiation, Picard iteration, tangent plane and differentials, quadratic forms and quadratic surfaces, extrema of 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'Hospital'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, multivariate 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 graphs, 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: MGF 1106 for level UG with min. grade of C and MAD 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 2312 for level UG with min. grade of C and MAD 3105 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: MGF 1106 for level UG with min. grade of C and MAD 3105 for level UG with min. grade of C

MAD 5206 Applied Combinatorics I 3 credits
Basics of Combinatorial theory. Topics include enumerative methods, inclusion-exclusion principle, lattice theory, block designs, and related topics.

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: (EDG 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C) or EDG 3434 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 and
EDF 3201 for level UG with min. grade of C) or EDG 4343 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. Prerequisites: MAE 4942 for level UG with min. grade of S 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) Prerequisites: MAE 4942 for level UG with min. grade of C Corequisites: MAE4936

MAE 4942 Interm 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 3025 Principles of Management  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.

MAN 3046 Team & Group Processes  3 credits
Introductory course on the theory and practice of leading, managing, and functioning in teams and groups. The focus of the course will be on building high performance teams and recognizing and resolving conflicts among team members. Prerequisites: MAN 3025 and MAN 3063 and MAN 3281

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. Prerequisites: MAN 3025 (May be taken concurrently)

MAN 3103 Entrepreneurship & Creativity  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 and MAN 3063 and MAN 3281

MAN 3281 Systems Thinking/Problem Solv.  3 credits
Student will learn to use a systems approach in diagnosing problems, the foundation of which is that system structure is responsible for behavior. The focus of the course will be on learning how to achieve desired behaviors through the disciplines required for a learning organization. Prerequisites: MAN 3025 (May be taken concurrently)
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAN 3301</td>
<td>Human Resource Management</td>
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<td>MAN 3320</td>
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<td>MAN 3322</td>
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<td>MAN 3350</td>
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<td>MAN 3401</td>
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<td>MAN 3504</td>
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<td>MAN 3520</td>
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<td>MAN 3781</td>
<td>Sustainable Business</td>
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<tr>
<td>MAN 3864</td>
<td>Family Business</td>
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<tr>
<td>MAN 4143</td>
<td>Leadership</td>
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<tr>
<td>MAN 4280</td>
<td>Org Development &amp; Change</td>
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<td>MAN 4330</td>
<td>Management of Compensation</td>
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<td>MAN 4441</td>
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<td>MAN 4600</td>
<td>International Management</td>
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<td>MAN 4625</td>
<td>Global Human Resource Mgt</td>
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<tr>
<td>MAN 4802</td>
<td>Business Plan Development</td>
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**Course Descriptions**

**MAN 3301 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 managing a firm's employees. The strategic role of HRM will be emphasized.
Prerequisites: MAN 3025 and MAN 3063 and MAN 3281

**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 provides 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 Performance and Training 3 credits**
Provides the knowledge, skills, and ability for students to accurately assess employee performance and provide mentoring and counseling to manage and motivate performance. Includes the development of programs that train and develop employees to deal with current workplace challenges and for career development.
Prerequisites: MAN 3301

**MAN 3401 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 U.S. The respective philosophy, objectives and strategies of 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 3301

**MAN 3504 Operations Management 3 credits**
Introduction to the management systems applications, and quantitative principles and techniques for effective planning and utilization of resources in the operation of manufacturing, research, and service activities. Junior Standing Required. ~ Course replaced with TRA 3151 201108.
Prerequisites: STA 2023 for level UG with min. grade of C and ACG 2071 for level UG with min. grade of C

**MAN 3520 Total Quality Management 3 credits**
Introduces students to the philosophy, techniques, and application of implementing and assessing quality in organizations. Provides students with a basic understanding of the various methods by which quality can be monitored, assessed, improved, and administered to achieve continuous process improvements and customer satisfaction. Topics include the importance of interdisciplinary teams, benchmarking, and statistical process control. ~ Course ended 201108
Prerequisites: MAN 3504

**MAN 3781 Sustainable Business 3 credits**
This course will focus on management of sustainability in enterprises using a problem-based learning approach. A foundation of knowledge in green business practices in a variety of industry settings will be developed.
Prerequisites: MAN 3025

**MAN 3864 Family Business 3 credits**
Business, personal and interpersonal issues associated with family-owned/managed firms are explored; competitive strengths/weaknesses in family-owned firms, dynamics of family interactions and the business culture; conflict resolution; estate planning, and planning for succession are discussed.
Prerequisites: MAN 3025 and MAN 3063 and MAN 3281

**MAN 4143 Leadership 3 credits**
Capstone course on the theory and practice of leadership. The focus of the course will be on examination of leadership and the process of achieving excellence in organizations.
Prerequisites: MAN 3046 (May be taken concurrently)

**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 4330 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 4441 Negotiation 3 credits**
The course covers the theories and practices of negotiation that can be used to manage successfully in business and professional settings. Students will improve their understanding of negotiation and their effectiveness as negotiators.
Prerequisites: MAN 3046 (May be taken concurrently)

**MAN 4600 International Management 3 credits**
A study of international management practices. Topics include globalization; internationalizing firms; cultural influences; political, legal & economic systems; international trade policies & agreements; entry modes & FDI; managing international operations; global social responsibility and sustainability.
Prerequisites: MAN 3025 and MAN 3063 and MAN 3281

**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 Small Business Consulting 3 credits
Application of small business concepts through consultation with
local small firms on a specific, mutually agreed upon project from
design to implementation.
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 to lead
and work effectively in groups. Classes utilize group exercises and
experiential learning.
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 6055

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 managing a firm's employees. The
strategic role of HRM will be emphasized.
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
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 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, clarify 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 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 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 and global market places, integrative and distributive bargaining, and 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 business, independent start-up or to pursue new product/service resulting in professional-quality business plans and oral business plan presentations. Prerequisites: FIN 5405 and MAN 6055 and MAR 6815

MAN 6907 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

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. 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
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<tr>
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<tr>
<td>MAP 4101</td>
<td>Probab &amp; Stochastic Processes</td>
<td>3 credits</td>
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<tr>
<td>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-</td>
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<tr>
<td>MAP 4231</td>
<td>Operations Research II</td>
<td>3 credits</td>
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<tr>
<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 3161 for level UG with min. grade of C</td>
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<tr>
<td>MAP 4314</td>
<td>Dynamical Systems</td>
<td>3 credits</td>
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<tr>
<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>
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<tr>
<td>MAP 4341</td>
<td>Partial Differential Equations</td>
<td>3 credits</td>
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<tr>
<td>Elements of the classical theory of partial differential equations. Topics include classification of PDEs and boundary value problems, Fourier series and transform, separation of variables, Fourier series solution of wave and heat equations, d'Alembert's solution and change of variables, transform methods, applications. *Meets Gordon Rule for Math Prerequisites: MAP 3161 for level UG with min. grade of C</td>
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<tr>
<td>MAP 5316</td>
<td>Differential Equations I</td>
<td>3 credits</td>
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<tr>
<td>This course surveys elementary methods and then focuses on advanced techniques for solving ordinary differential equations, including the method of Frobenius, and Sturm-Liouville theory.</td>
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<tr>
<td>MAP 6436</td>
<td>Topics in Applied Mathematics</td>
<td>3 credits</td>
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<tr>
<td>Advanced mathematical methods for engineering and scientific applications. Topics include calculus of variations, Laplace transforms, Fourier transforms, vector and tensor methods.</td>
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<tr>
<td>MAR 3023</td>
<td>Introduction to Marketing</td>
<td>3 credits</td>
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<tr>
<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>
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<tr>
<td>MAR 3235</td>
<td>E-Marketing</td>
<td>3 credits</td>
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<tr>
<td>The study of media convergence to implement marketing strategies and techniques for both consumers and business markets. Emphasis on building customer relationships and brand identity via advanced communication technologies. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 3400</td>
<td>Professional Selling</td>
<td>3 credits</td>
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<tr>
<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>
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<tr>
<td>MAR 3503</td>
<td>Consumer Behavior</td>
<td>3 credits</td>
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<tr>
<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. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 3613</td>
<td>Marketing Research</td>
<td>3 credits</td>
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<tr>
<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. ~ Course replaced with MAR 4613, effective 201108. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 4156</td>
<td>Global Marketing</td>
<td>3 credits</td>
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<tr>
<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. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 4203</td>
<td>Supply Chain Marketing</td>
<td>3 credits</td>
</tr>
<tr>
<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. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 4232</td>
<td>Retail Management</td>
<td>3 credits</td>
</tr>
<tr>
<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. Prerequisites: MAR 3023</td>
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<tr>
<td>MAR 4310</td>
<td>Public Relations Management</td>
<td>3 credits</td>
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<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 3000 or MAR 3023</td>
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<tr>
<td>MAR 4333</td>
<td>Integrated Mkt. Communications</td>
<td>3 credits</td>
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<tr>
<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>
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<tr>
<td>MAR 4403</td>
<td>Sales Force Management</td>
<td>3 credits</td>
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<tr>
<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>
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<tr>
<td>MAR 4645</td>
<td>Marketing Technology</td>
<td>3 credits</td>
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<tr>
<td>In-depth study of the strategic and ethical use of databases and web-enabled technologies. Emphasis on offline/online marketing</td>
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communications and applications that build and maintain customer, vendor and supplier relationships.
Prerequisites: MAR 3023 and ISM 3011

MAR 4713 Hospitality/Tourism Marketing 3 credits
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.
Prerequisites: MAR 3023

MAR 4804 Market Strategy 3 credits
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

MAR 4841 Services Marketing 3 credits
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.
Prerequisites: MAR 3023

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)
Prerequisites: MAR 3023

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 profit or non-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)
Prerequisites: MAR 3023

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 trade, and the formulation of global marketing strategies. Cross-cultural, legal, political, ethical and environmental factors are introduced to enhance global marketing decision-making.
Prerequisites: MAR 6815

MAR 6216 Marketing Logistics 3 credits
Advanced study of the logistical process and its impact on business strategy. Application of quantitative methods of involving the handling and storage of raw materials and finished goods. Attention is given to the dynamic interrelationships among the functional areas of business 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.
Prerequisites: MAR 6815

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.
Prerequisites: MAR 6815

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.
Prerequisites: MAR 6815

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.
Prerequisites: MAR 6815

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. - Course replaced with MAR 6805, effective 201108.

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.
Prerequisites: MAR 6815

MAR 6904 Marketing Internship 3 credits
Experiential learning exercise that will enable students to apply marketing theory to real world situations. Student will gain marketing related knowledge and practical experience in a profit or not-for-profit organization. S/U only. (Permit of department required)
Prerequisites: MAR 6815

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)
Prerequisites: MAR 6815
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. Prerequisites: MAR 6815

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, orthogonality, 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 4214 Elementary Number Theory 3 credits
Basic principles of algebraic number theory. Topics include divisibility and residues, congruences, primes, pseudoprimes and primality tests, systems of congruences and Chinese remaining, multiplicative functions, continued fractions. *Meets Gordon Rule for Math Prerequisites: MHF 2191 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 5145 Advanced Linear Algebra 3 credits
Advanced topics in linear algebra, to include abstract vector spaces, subspaces, linear transformations and matrices, canonical forms and decompositions, eigenvalues and singular values, quadratic form, and positive definite matrices.

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.

MAS 5311 Modern Algebra I 3 credits
Graduate level introduction to basic theory of groups and rings. Topics include groups, subgroups, homomorphism, quotient groups, rings, fields, and Sylow theory.

MAS 5312 Modern Algebra II 3 credits
Graduate level introduction to basic theory of groups and rings. Topics include groups, subgroups, homomorphism, quotient groups, rings, fields, and Sylow theory. Prerequisites: MAS 5311 for level GR with min. grade of B

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.

MAT 6930 Research Seminar 3 credits
Capstone experience designed to familiarize students with the process of mathematical research, and requires an oral and written presentation of a project.
Prerequisites: MAA 5229 for level GR with min. grade of B and MAS 5312 for level GR with min. grade of B

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 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 4203C 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

MGF 1106 Finite Mathematics 3 credits
A survey course of various topics in mathematics, intended for students pursuing a degree in a nonscientific field. Topics will come from the general areas of combinations, probability and statistics, history of mathematics, geometry, set theory, and logic. *Meets Gordon Rule for Math
Prerequisites: MAT 1033 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

MGF 1107 General Mathematics 3 credits
A survey course of various topics in mathematics, intended for students pursuing a degree in a nonscientific field. Topics will come from the general areas of financial mathematics, exponential growth, number systems and number theory, history of mathematics, voting techniques and graph theory.
Prerequisites: MAT 1033 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

MGF 1107 General Mathematics 3 credits
A survey course of various topics in mathematics, intended for students pursuing a degree in a nonscientific field. Topics will come from the general areas of financial mathematics, exponential growth, number systems and number theory, history of mathematics, voting techniques and graph theory.
Prerequisites: MAT 1033 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

MGG 2191 Mathematical Foundations 3 credits
Introduction to axiomatic systems and techniques of proof, in preparation for upper-level study in mathematics. Topics include: symbolic logic, boolean algebra, set theory, countable and uncountable sets, techniques of proof, functions and relations, mathematical induction, group axioms. Emphasis is on preparing the student to read and write mathematical proofs, and to work with abstract definition and axioms.
Prerequisites: MAC 2312 for level UG with min. grade of C

MGG 4400 Mathematics & Society 3 credits
Examination of the role of mathematics as a scientific enterprise promoting the advancement of society. Topics included may vary from semester to semester, but will generally focus on the historical influence of mathematics on the development of civilization, the philosophy of mathematics itself, the ethical issues confronting mathematicians, and the unique nature of the profession as a human endeavor.

MGG 4404 History of Math 3 credits
The evolution of mathematical thought and methods from antiquity through the Renaissance. Topics include development of the concepts of number, quantity, and magnitude, algebraic techniques and symbolic notation, solution of polynomial equations, the evolution of the concept of proof, development of number systems, history of number theory and congruences, and notions of infinity and infinitesimals. Mathematical ideas and practice in European, African, Mesoamerican, and Asian cultures will be considered.
Prerequisites: MAC 2312 for level UG with min. grade of C

MGG 5405 History of Math 3 credits
Development of mathematical concepts of antiquity through the Renaissance, with emphasis on those having the most influence on contemporary mathematical paradigms and practice. Mathematical notions from Western, Mesoamerican, African, Asian cultures will be considered. Students will be expected to complete an independent research project as part of the course requirements. Permission of instructor required.

MHS 6006 Princ 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 Couns Theory 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 individuals 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, and psychological perspectives for counselors to successfully intervene in 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 Collab & Consult Prblm Solve 1 credit
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 & Consul 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 credit
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 6833 Clinical Internship III 3 credits
Structured opportunities to observe and practice principles in the field as learned in primary classes.

MHS 6885 Clinical Internship V 2 credits
A structured opportunity to observe principles from primary classes in the field. In addition, opportunity to practice specific counseling skills and interventions will be provided.

MHS 6887 Field Experience I 1 credit
A structured opportunity to observe principles from primary classes in the field. In addition, opportunity to practice specific counseling skills and interventions will be provided.

MHS 6888 Intrn:Prof Dev Mental Hlth Cns 3 to 4 credits
Structured opportunities to observe and practice principles in the field as learned in primary classes.
Prerequisites: MHS 6883

MHS 6905 Individual Study in Counsel Ed 1 to 4 credits
Individual study and/or research under the direction of a Counseling Faculty member. Topics vary and are selected on an individual basis. Detailed project or paper must be completed. (Permission of instructor and/or Program Faculty is required.)

Fee Required

MLS 3038 Essentials of Clinical Lab Sci 3 credits
Introduces students to the principles and practices of Clinical Laboratory Science. Topics include safety, phlebotomy, automation, laboratory mathematics, laboratory information systems, quality assurance, management, education, ethics, professional roles, accreditation and regulation.

MLS 3220 Biological Fluid Analysis 2 credits
Lecture course introduces students to the theory and practices underlying the laboratory analysis of various biological fluids. Students study microscopic and physiochemical testing and correlate laboratory and clinical data to health and disease.
Prerequisites: (BSC 1010C or BSC 1010L and BSC 1010L) 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)

MLS 4191 Molecular Diagnostics 3 credits
Focus on diagnosis through cytogenetic and nucleic acid molecular technology through study of basic and clinical techniques of DNA - based diagnostic methods.
Prerequisites: PCB 3063C

MLS 4308 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 or (BSC 1010 and BSC 1010L)

MLS 4308C Hematology/Hemostasis 3 credits
Study of human blood ontogeny, kinetics, and pathophysiology. Lecture and laboratory integrate theory with application of analytical techniques used to diagnose and monitor hematological disease and disorders of hemostasis. - Course replaced with MLS 4308, effective 200908
Prerequisites: BSC 1010C

MLS 4404 Diagnostic Microbiology 3 credits
MLS 4462 Diagnostic VMP 3 credits
Prerequisites: MCB 2010C for level UG with min. grade of C or MCB 3020C for level UG with min. grade of C

MLS 4505 Clinical Immunology 2 credits
Course integrates basic and clinical immunology featuring clinical presentation, immunopathological features, diagnosis and treatment of immunologically related diseases. Lectures include discussion of diagnostic techniques and procedures utilized in a clinical immunology laboratory.
Prerequisites: BSC 1010C or (BSC 1010 and BSC 1010L)

MLS 4550 Immunohematology & Transfusion 3 credits
Lecture course integrates theoretical concepts and applications related to blood donation process, transfusion therapy and blood group system biochemistry, genetics and serology.
Prerequisites: PCB 3063C and PCB 4233C

MLS 4627 Clinical Biochemistry 3 credits
Relationship and application of biochemistry to the diagnosis, prognosis, and treatment of human disease. Theoretical principles and study of techniques for proteins, enzymes, carbohydrates, lipids, electrolytes, nitrogen metabolites, inborn errors of metabolism, TDM and toxicology.
Prerequisites: BCH 3023C

MLS 4820C Clinical Biochemistry Practicum 3 credits
Advanced practical experience and didactic information in a clinical biochemistry laboratory emphasize chemistry instrumentation, immunochemical analysis, electrophoresis, blood gases, TDM, and toxicology. Departmental permission, acceptance into the Department of EHMCS, and senior standing.
Prerequisites: MLS 4627C

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. Departmental permission, acceptance into the Department of Clinical Laboratory Science and senior standing.
Prerequisites: MCB 4203C

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

MLS 4823C Clinical Immunohematology Prac 3 credits
Advanced practical experience in a clinical immunohematology laboratory and perfusion service including compatibility testing, blood transfusion procedures and antibody detection and identification. Clinical experience includes operation and management of a transfusion service and donor center. Departmental permission, acceptance into the Department of Clinical Laboratory Science and senior standing.
Prerequisites: MLS 4550C

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

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.

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.

MMC 3104 Writing, Grammar and Style 3 credits
This writing-intensive course teaches the principles common to all 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

MTG 5316 General Topology 3 credits
Introduction to set theoretic topology. Presents the basic axioms and results up to the Tychonoff theorem.

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
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<tr>
<th>Unit Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MUE 3304</td>
<td>Piano Pedagogy II</td>
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<td>MUE 3311</td>
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<td>MUE 3331</td>
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<td>MUE 3343</td>
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<td>MUE 4210</td>
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<td>MUE 4344</td>
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<td>MUE 4480</td>
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<td>MUE 4492</td>
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<tr>
<td>MUG 3204</td>
<td>Instr. Lit. &amp; Cond. Techniques</td>
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<td>MUH 3211</td>
<td>Survey of Music History I</td>
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<tr>
<td>MUH 3212</td>
<td>Survey of Music History II</td>
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<tr>
<td>MUT 2246</td>
<td>Intro to Music Literature</td>
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<tr>
<td>MUL 4481</td>
<td>Piano Literature I</td>
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<tr>
<td>MUL 4485</td>
<td>Piano Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
Prerequisites: MUG 3104 for level UG with min. grade of C (May be taken concurrently)

MUE 3343 String Methods and Materials 2 credits
The study of string pedagogy, performance, and research.
Prerequisites: MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C

MUE 3345 Woodwind Methods and Materials 2 credits
The study of woodwind pedagogy, performance, and research.
Prerequisites: MUT 1112 and MUT 1242

MUE 3465 Brass Methods and Materials 2 credits
The study of brass pedagogy, performance, and research.
Prerequisites: MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C

MUE 3475 Percussion Methods & Materials 2 credits
The study of percussion pedagogy, performance, and research.
Prerequisites: MUT 1112 for level UG with min. grade of C and MUT 1242 for level UG with min. grade of C

MUE 4210 Music for the Child 3 credits
Methods and materials of infusing music in the elementary classroom.

MUE 4344 Teaching Instrumental Music 3 credits
Development of skills in teaching secondary instrumental music; includes principles of organization and administration of a comprehensive instrumental music program. Study of methods and materials used to teach orchestra, concert band, and jazz and chamber ensembles.
Prerequisites: MUG 3204 for level UG with min. grade of C (May be taken concurrently)

MUE 4480 Marching Band Techniques 3 credits
Fundamental principles of effective instruction for the contemporary marching band. Application of skills in preparing, organizing, teaching, and rehearsing this ensemble.
Prerequisites: MUT 2117 for level UG with min. grade of C and MUN 1360 for level UG with min. grade of C

MUE 4492 Choral Lit and Conducting Tech 2 credits
Survey of octavo choral literature from multiple style periods appropriate for middle school, high school and church choirs as well as overview of pivotal choral/orchestral works. Study of related conducting/rehearsal techniques.
Prerequisites: MUG 3104 for level UG with min. grade of C

MUG 3204 Instr. Lit. & Cond. Techniques 3 credits
Study of instrumental literature from both a historical and a practical view. Study of conducting and rehearsal techniques for middle school, high school, and adult bands and orchestras.
Prerequisites: MUT 2117 for level UG with min. grade of C and MUT 2246 for level UG with min. grade of C and MUG 3104 for level UG with min. grade of C

MUH 3211 Survey of Music History I 3 credits
A survey of the music of western civilization from Antiquity through the Baroque period.
Prerequisites: MUL 2110 for level UG with min. grade of C

MUH 3212 Survey of Music History II 3 credits
A survey of the music of western civilization from the Classical period through the present.
Prerequisites: MUL 2110 for level UG with min. grade of C

MUL 2110 Intro to Music Literature 3 credits
Introduction to Western music, including style periods and major composers, to world music, and to jazz and popular music. Designed both for music majors (strongly recommended) and non-majors as a humanities elective.

MUL 4481 Piano Literature I 3 credits
Study of keyboard and piano literature of the Baroque and Classical periods. Forms, genres, style and primary composers as well as the history of the piano included. Approached from both analytical and performance perspectives.
Prerequisites: MUL 2110 for level UG with min. grade of C (May be taken concurrently)

MUL 4485 Piano Literature II 3 credits
Continuation of MVK 4410, Piano Literature I. Study of piano literature from the Romantic, Impressionistic, 20th Century and contemporary period. Forms, genres, style and primary composers are included as well as developments in the history of the piano.
Prerequisites: MUL 2110 for level UG with min. grade of C (May be taken concurrently)
MUL 4602 Vocal Literature 2 credits
Introduction to art song literature from 1600-present. Study of composers, styles and related performance practice.
Prerequisites: MUS 3212 for level UG with min. grade of C (May be taken concurrently)

MUN 1120 Symphonic Band 0 to 1 credit
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. (Instructor approval)

MUN 1240 University Strings 0 to 1 credit
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.

MUN 1310 University Choir 1 credit
A choral group providing specialized study performance opportunities for vocally qualified students. This course may be repeated for a maximum of eight (8) credits. Permission of the instructor is required.

MUN 3133 Symphonic Band 0 to 1 credit
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 credit
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 credit
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

MUN 3343 Chamber Singers 0 to 1 credit
Performance group for outstanding singers; advanced choral literature will be rehearsed and performed. ~Audition required.
Prerequisites: MUN 1310 (May be taken concurrently) or MUN 3313 (May be taken concurrently)

MUN 3463 Instrumental Chamber Music 1 credit
The study and performance of literature for small groups of string, wind, percussion, voice and keyboard instruments.

MUN 4143 Wind Orchestra 0 to 1 credit
Performing group of highly qualified wind orchestra students. ~Audition required.

MUO 3503 Opera/Musical Theater Workshop 1 credit
Production of opera, operetta or musical theater works in full or in part (arias, ensembles or scenes). Students will study acting techniques and stage movement of musical works. ~Audition Required.

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 credit
Fundamentals of English, Italian and Latin diction designed for vocal music students. Utilizes the International Phonetic Alphabet.
Prerequisites: MUT 1111 for level UG with min. grade of C

MUS 1360 Intro to Music Technology 1 credit
Study of computer applications to the study of music, including notation and sequencing software.
Prerequisites: MUT 1111

MUS 2202 Diction II 1 credit
Fundamentals of German and French diction designed for vocal music students. Utilizes the International Phonetic Alphabet.
Prerequisites: MUS 1201

MUS 3953 Junior Recital 0 to 1 credit
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.
Prerequisites: MUT 2117 and MUT 2247

MUS 4930 Special Topics in Music 1 to 3 credits
Special Proposals for music topics not in current offerings.

MUS 4954 Senior Recital 0 to 1 credit
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 diatonic harmony through analysis and writing. Music fundamentals review, chord construction, four-part writing, chord connection principles. Development of related composition, keyboard, and improvisation skills.
Prerequisites: MUT 1001 for level UG with min. grade of C

MUT 1112 Music Theory II 3 credits
Continuation of MUT 1111 with attention to phrase structure, small forms, secondary chords, simple modulation, and counterpoint. Development of related composition, keyboard, and improvisation skills.
Prerequisites: MUT 1111 for level UG with min. grade of C and MUT 1241 for level UG with min. grade of C
Corequisites: MUT1242
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>MUT 1241</td>
<td>Aural Skills I</td>
<td>1</td>
<td>Development of music reading skills through sight singing. Melodic, rhythmic, and harmonic</td>
<td>MUT 1001</td>
<td>MVB 1011</td>
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<td>dication, improvisation, and critical listening. Coordinated with concepts covered in Theory</td>
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<tr>
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<td>Aural Skills II</td>
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<td>Development of music reading skills through sight singing. Melodic, rhythmic, and harmonic</td>
<td>MUT 1241</td>
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<td>dication, improvisation, and critical listening. Coordinated with concepts covered in Theory</td>
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<td>MUT 2116</td>
<td>Music Theory III</td>
<td>3</td>
<td>Continuation of MUT 1112. Study of chromatic harmony including review of secondary function,</td>
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<td>MVB 1011</td>
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<td>simple and complex modulations, modal mixture, and introduction to large forms. Development of</td>
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<td>related composition, keyboard, and improvisation skills.</td>
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<tr>
<td>MUT 2117</td>
<td>Music Theory IV</td>
<td>3</td>
<td>Analytical and compositional methods of twentieth and twenty-first century music. Development</td>
<td>MUT 2116</td>
<td>MVB 1011</td>
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<td>of critical writing skills and creation of stylistic compositions.</td>
<td>MUT 1112</td>
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<tr>
<td>MUT 2246</td>
<td>Aural Skills III</td>
<td>1</td>
<td>Development of music reading skills through sight singing. Melodic, rhythmic, and harmonic</td>
<td>MUT 2246</td>
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<td>dication, improvisation, and critical listening. Coordinated with concepts covered in Theory</td>
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<td>MUT 2247</td>
<td>Aural Skills IV</td>
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<td>Development of music reading skills through sight singing. Melodic, rhythmic, and harmonic</td>
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<tr>
<td>MUT 3311</td>
<td>Orchestration and Arranging</td>
<td>3</td>
<td>Development of skills in scoring and arranging music for various combinations of instruments</td>
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<td>including strings, brass, woodwinds, and percussion. Study of transpositions, ranges, and</td>
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<td>idiomatic scoring for individual instruments. Projects include transcriptions and</td>
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<tr>
<td>MUT 3611</td>
<td>Form and Analysis</td>
<td>2</td>
<td>Study of small song forms, variation, rondo, and sonata, with emphasis on score reading and</td>
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<tr>
<td>MVB 1011</td>
<td>Freshman Applied Trumpet</td>
<td>1-2</td>
<td>Private study in trumpet for freshmen. ~ Previous playing experience</td>
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<tr>
<td>MVB 1012</td>
<td>Freshman Applied Horn</td>
<td>1-2</td>
<td>Private study in horn for freshman. Previous playing experience required; permission of instructor.</td>
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<td>MVB 1013</td>
<td>Freshman Applied Trombone</td>
<td>1-2</td>
<td>Private study in trombone for freshman. Previous playing experience required; permission of instructor.</td>
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<td>MVB 1014</td>
<td>Freshman Applied Euphonium</td>
<td>1-2</td>
<td>Private study in euphonium for freshman. Previous playing experience required; permission of instructor.</td>
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<tr>
<td>MVB 1015</td>
<td>Freshman Applied Tuba</td>
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<td>Private study in tuba for freshman. Previous playing experience required; permission of instructor.</td>
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<tr>
<td>MVB 2021</td>
<td>Sophomore Applied Trumpet</td>
<td>1-2</td>
<td>Private study in trumpet for sophomores. Two semesters of Freshman Applied Trumpet, MVB 1011,</td>
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<tr>
<td>MVB 2022</td>
<td>Sophomore Applied Horn</td>
<td>1-2</td>
<td>Private study in horn for sophomores. Two semesters of Freshman Applied Horn with a C or better.</td>
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<td>MVB 2023</td>
<td>Sophomore Applied Trombone</td>
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<td>Private study in trombone for freshmen. Two semesters of Freshman Applied Trombone with a C or better.</td>
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<td>Sophomore Applied Tuba</td>
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<td>Private study in tuba for sophomores. Two semesters of Freshman Applied Tuba with a C or better.</td>
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<td>MVB 2424</td>
<td>Sophomore Applied Euphonium</td>
<td>1-2</td>
<td>Private study in euphonium for sophomores. Two semesters of Freshman Applied Euphonium with a C or better.</td>
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<td>MVB 3431</td>
<td>Junior Applied Trumpet</td>
<td>1-3</td>
<td>Private study in trumpet for juniors. Two semesters of MVB 2021, Sophomore Applied Trumpet, with a C or better.</td>
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<tr>
<td>MVB 3432</td>
<td>Junior Applied Horn</td>
<td>1-3</td>
<td>Private study in horn for juniors. Prerequisite: Two semesters of MVB 2022, Sophomore Applied</td>
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<tr>
<td>MVB 3433</td>
<td>Junior Applied Trombone</td>
<td>1-3</td>
<td>Private study in trombone for juniors. Two semesters of MVB 2023, Sophomore Applied Trombone, with a C or better.</td>
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<tr>
<td>MVB 3434</td>
<td>Junior Applied Euphonium</td>
<td>1-3</td>
<td>Private study in euphonium for juniors. Two semesters of MVB 2424, Sophomore Applied Euphonium, with a C or better.</td>
<td></td>
<td>MVB 1011</td>
<td></td>
</tr>
<tr>
<td>MVB 3435</td>
<td>Junior Applied Tuba</td>
<td>1-3</td>
<td>Private study in Tuba for juniors. Two semesters of MVB 2025</td>
<td></td>
<td>MVB 1011</td>
<td></td>
</tr>
</tbody>
</table>
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 credit
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)
Prerequisite: MUT 1001 w/ minimum grade of C or 70% on Theory Placement Tool.

MVK 1112 Class Piano II 1 credit
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: MVK 1111

MVK 2021 Sophomore Applied Piano 1 to 2 credits
Private study in piano for sophomores. Two semester of Applied Piano, MVK 1011, with a C or better.
Prerequisites: MVK 1011 for level UG with min. grade of C

MVK 2115 Class Piano for Proficiency 1 credit
Designed for the music major who has had piano background but needs study in functional piano in order to pass the piano proficiency exam. Topics include all major and minor (3 forms) scales, diatonic chords, harmonic progressions, melody harmonization using diatonic chords and secondary dominants, sight reading, simple transpositions, clef reading and repertoire memorization.
Prerequisites: MVK 1112 for level UG with min. grade of C

MVK 2121 Class Piano III 1 credit
Continuing study of beginning study in piano in a class environment. Designed to develop the basic keyboard skills needed to pass piano proficiency exam. Topics include playing major and white key minor scales, arpeggios and triads. Harmonization of selected melodies within a major third away from the original key, and repertoire pieces. MVK 1112, Class Piano II, with a C or better is required or placement by piano faculty.
Prerequisites: MVK 1112 for level UG with min. grade of C

MVK 2122 Class Piano IV 1 credit
Advanced undergraduate class piano study to prepare students to pass the Piano Proficiency Examination. Topics include scales, chord progressions, sight reading, transposition, harmonization, and improvisation. MVK 2121 (C) is required with a C or better or placement by Piano Faculty.
Prerequisites: MVK 2121 for level UG with min. grade of C

MVK 3231 Junior Applied Piano 1 to 3 credits
Prerequisites: MVK 2021

MVK 3702 Piano Accomp & Collaboration 2 credits
Study of repertoire and principles of accompaniment in all style periods. Laboratory experiences include accompanying instrumentalists, vocalists, and choirs. Prerequisite: Two semesters of MVK 2021, Sophomore Applied Piano.
Prerequisites: MVK 2021

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 violin for freshman.

MVS 1012 Freshman Applied Viola 1 to 2 credits
Private study in a viola for freshmen. Previous playing experience required; permission of instructor.

MVS 1013 Freshman Applied Cello 1 to 2 credits
Private study in cello for freshmen. Previous playing experience required; permission of instructor.

MVS 1016 Freshman Applied Guitar 1 to 2 credits
Private study in a guitar for freshmen. Previous playing experience
required; permission of instructor.

MVS 1414  Freshman Applied Double Bass  1 to 2 credits
Private study in double bass for freshmen. Prerequisite: Audition Required.

MVS 1415  Freshman Applied Harp  1 to 2 credits
Private study in harp for freshman. Previous playing experience required; permission of instructor.

MVS 2021  Sophomore Applied Violin  1 to 2 credits
Private study in violin 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 a viola 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 cello 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 violin 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 4445  Senior Applied Harp  1 to 3 credits
Private instruction in harp for seniors. Successful completion of 2 semesters of MVS 3435 required.
Prerequisites: MVS 3435 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

MVV 1011  Freshman Applied Voice  1 to 2 credits
Private study in voice for Freshman. Previous singing experience required.

MVV 1110  Class Voice I  2 credits
Introduction to singing for beginners. Designed as an elective for non-voice majors to develop basic singing technique and performance presentations. The course also examines the basic function of vocal anatomy and respiratory muscles.

MVV 2021  Sophomore Applied Voice  1 to 2 credits
Private study in voice for sophomores. Prerequisite: Two semesters of Freshman Applied Voice MVV 1011, with a C or better.
Prerequisites: MVV 1011 for level UG with min. grade of C

MVV 3311  Junior Applied Voice  1 to 3 credits
Private study in voice for juniors. -Prerequisite: Two semesters of Sophomore Applied Voice, MVV 2021 with a C or better.
Prerequisites: MVV 2021 for level UG with min. grade of C

MVV 4341  Senior Applied Voice  1 to 3 credits
Private study in voice for seniors. Two semesters of MVV 3331, Junior Applied Voice.
Prerequisites: MVV 3331 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 MVW 2321, Sophomore 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

MVW 3435  Junior Applied Saxophone  1 to 3 credits
Private study in saxophone for juniors. Two semesters of MVW 2325, Sophomore Applied Saxophone, with a C or better.
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 credit
Application of theories in perioperative nursing to the delivery of anesthesia in the clinical setting.

NGR 5431L  Clinical Practicum I  1 credit
Application of beginning anesthesia nursing knowledge to the delivery of anesthesia in the clinical setting.

NGR 5432C  Clinical Practicum II  1 credit
Delivery of basic anesthesia nursing care including regional techniques to clients in a variety of clinical settings.
Prerequisites: NGR 5431C

NGR 5432L  Clinical Practicum II  1 credit
Continued application of beginning anesthesia nursing knowledge to the delivery of anesthesia in the clinical setting.
Prerequisites: NGR 5431L
Fee Required

NGR 5433C  Clinical Practicum III  6 credits
Delivery of perioperative nursing to children, childbearing mothers and elders.
Prerequisites: NGR 5432C

NGR 5433L  Clinical Practicum III  6 credits
Delivery of anesthesia at a novice level of competence for all types of procedures in a variety of clinical settings.
Prerequisites: NGR 5432L

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 5434L  Clinical Practicum IV  6 credits
Delivery of anesthesia care at an advanced beginner level of competency to clients in a variety of settings. Student practice may include on call experiences and specialty rotations.
Prerequisites: NGR 5433L

NGR 5435C  Clinical Practicum V  6 credits
Anesthesia management of clients with post-operative and chronic pain.
Prerequisites: NGR 5434C
Fee Required

NGR 5435L  Clinical Practicum V  6 credits
Delivery of anesthesia at the competent level for all types of clients and procedures. Student practice may include on call experiences and specialty rotations.
Prerequisites: NGR 5434L
Fee Required

NGR 5436C Clinical Practicum VI 6 credits
Delivery of advanced anesthesia nursing care to clients in specialty areas.
Prerequisites: NGR 5435C
Fee Required

NGR 5436L Clinical Practicum VI 6 credits
Delivery of anesthesia at the proficient level of competence in all kinds of cases. The nurse anesthesia student functions as the primary nurse anesthetist with instructor as consultant. Student practice may include on call experiences and specialty rotations.
Prerequisites: NGR 5435L

NGR 5437C Clinical Practicum VII 6 credits
Delivery of advanced anesthesia care to clients in a variety of settings
Prerequisites: NGR 5436C

NGR 5437L Clinical Practicum VII 6 credits
Delivery of advanced anesthesia care at the experienced competence level to clients in a variety of settings. Student practice may include on call experiences and specialty rotations.
Prerequisites: NGR 5436L

NGR 5947C Internship 1 credit
The nurse anesthetist student functions as the primary nurse anesthetist with instructor as consultant.
Prerequisites: NGR 5945C

NGR 6002 Hlth. Appr. & Interpretation 3 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.
Corequisites: NGR6002L

NGR 6002C HealthAppraisal/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 6002L Hlth. Appr. & Interp. - Pract. 1 credit
Practice section of NGR 6002C. Emphasis is placed skills needed to assess health status of individuals across the lifespan. 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: NGR6213C

NGR 6031L Adv. Diag. Reason. & Assess. 3 credits
Focus is on developing knowledge and skill in diagnostic testing and monitoring strategies used in intensive care settings.
Prerequisites: NGR 6740 and NGR 6811 and (NGR 6211C or (NGR 6211 and NGR 6211L) )
Corequisites: NGR6213L

NGR 6098 Synthesis Seminar 3 credits
Comprehensive review of preparation for national certification examination. ~ Course replaced with NGR 6491, effective 200908
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: NGR6156

NGR 6141 Physiological Alterations 3 credits
Emphasis is placed on investigation, analysis, and interpretation of pathophysiological 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 credit
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 6140
Corequisites: NGR6165

NGR 6149 Adv. Anat, Physio. & Path III 1 credit
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 aberrant function.
Corequisites: NGR6140

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: NGR6144

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 6210 Acute Care I 2 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 or (NGR 6002 and NGR 6002L) ) and NGR 6460
Corequisites: NGR6210L

NGR 6210 C 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
NGR 6210L Acute Care I - Practice 1 credit
Practice course to provide 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 or (NGR 6002 and NGR 6002L)) and NGR 6460
Corequisites: NGR6210
Fee Required

NGR 6211L Acute Care II - Practice 2 credits
Practice course to provide acute care nursing at an advanced level to clients experiencing critical illnesses. Emphasis is on diagnostic reasoning and management skills. Focus is on further development of diagnostic reasoning and management skills.
Prerequisites: NGR 6461 and NGR 6165 and NGR 6144 and (NGR 6210C or (NGR 6210 and NGR 6210L))
Corequisites: NGR6211L

NGR 6211 Acute Care II 4 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 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: NGR6211L

NGR 6212 Acute Care II 4 credits
Focus is directed on further refinement of knowledge and skills used in the management, monitoring of acutely ill clients. Emphasis is on diagnostic reasoning, use of prescriptive privileges, and the legal constraints of acute care nurse practitioners within the acute care setting.
Prerequisites: NGR 6740 and (NGR 6211C or (NGR 6211 and NGR 6211L)) and NGR 6811
Corequisites: NGR6212L

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 is on diagnostic reasoning, 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: NGR66195

NGR 6213L Acute Care III - Practice 2 credits
Further refinement of knowledge and skills used in management and monitoring of acutely ill clients. Emphasis is on evaluation of care, use of prescriptive privileges, and legal constraints of acute care nurse practitioners within the acute care setting.
Prerequisites: NGR 6740 and (NGR 6211C or (NGR 6211 and NGR 6211L)) and NGR 6811
Corequisites: NGR6213

NGR 6214 Acute Care IV 1 credit
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 6149 and NGR 6031L and NGR 6213 and NGR 6213L
Corequisites: NGR6214L

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 6031C
Corequisites: NGR6149

NGR 6214L Acute Care IV - Practice 5 credits
Focus is on integration of all components of the acute care practice role and continued refinement of knowledge and skills in working with older adults experiencing acute illness.
Prerequisites: NGR 6149 and NGR 6031L and NGR 6213 and NGR 6213L
Corequisites: NGR6214L

NGR 6215 Primary Health Care V 4 credits
Focus is on models for advanced practice nursing and health care management and monitoring of adults with major health alterations seen in the primary care setting.
Prerequisites: NGR 6172 and NGR 6240 and NGR 6240L and NGR 6741 and NGR 6741L
Corequisites: NGR6215L

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 6215L Primary Health Care V - Practice 2 credits
Practice course for NGR 6215. Focus is on models for advanced practice nursing and health care management and monitoring of adults with major health alterations seen in the primary care setting.
Prerequisites: NGR 6172 and NGR 6240 and NGR 6240L and NGR 6741 and NGR 6741L
Corequisites: NGR6215L

NGR 6240 Primary Health Care I 4 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 or (NGR 6002 and NGR 6002L)) and NGR 6141 and NGR 6740
Corequisites: NGR6240L

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
<table>
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<td>NGR 6240L</td>
<td>Primary Health Care I - Pract.</td>
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<td>Practice course for NGR 6240. Focus is on the</td>
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<td></td>
<td>beginning application of nurse practitioner</td>
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<td></td>
<td>knowledge and skills in the assessment and</td>
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<td></td>
<td>management of adult clients.</td>
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<td>NGR 6141 and NGR 6740</td>
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<td>NGR 6252</td>
<td>Primary Health Care IV</td>
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<td></td>
<td>Incorporation and integration of all components</td>
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<td>of the primary health nurse care practitioner</td>
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<td>role developed in preceding courses with</td>
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<td>further refinement of advanced practice</td>
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<td>knowledge and competency with emphasis on the</td>
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<td>older adult.</td>
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<td>NGR 6252C</td>
<td>Primary Health Care IV</td>
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<td></td>
<td>Incorporation and integration of all components</td>
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<td>of the primary health nurse care practitioner</td>
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<td>role developed in preceding courses with</td>
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<td>further refinement of advanced practice</td>
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<td>knowledge and competency with emphasis on the</td>
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<td>older adult.</td>
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<td>Prerequisites:</td>
<td>NGR 6240C and (NGR 6741C or NGR 6305C)</td>
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<td>NGR 6252L</td>
<td>Primary Health Care IV-Pract.</td>
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<td>Practice course for NGR 6252. Emphasis is on</td>
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<td>further refinement of advanced practice</td>
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<td>knowledge and competency with emphasis on the</td>
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<td>older adult.</td>
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<td>Prerequisites:</td>
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<td>NGR 6741L or NGR 6305 and NGR 6305L)</td>
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<td>corequisites:</td>
<td>NGR6252L</td>
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<td>NGR 6305</td>
<td>Primary Health Care III</td>
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<td>The course focuses on strategies for health</td>
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<td>promotion, maintenance and prevention of</td>
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<td>common health problems and management of</td>
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<td>alterations in children and families.</td>
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<tr>
<td>Prerequisites:</td>
<td>NGR 6172 and (NGR 6240C or (NGR 6240 and NGR</td>
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<td>6240L ) )</td>
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<td>corequisites:</td>
<td>NGR6305L</td>
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<td>NGR 6305C</td>
<td>Primary Health Care III</td>
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<td></td>
<td>The course focuses on strategies for health</td>
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<td>promotion, maintenance and prevention of</td>
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<td>alterations in children and families.</td>
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<td>Prerequisites:</td>
<td>NGR 6172 (May be taken concurrently) and NGR</td>
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<td>6240C</td>
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<td>NGR 6305L</td>
<td>Primary Health Care III-Pract.</td>
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<td>Practice course for NGR 6305. Emphasis is on</td>
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<td>the continued application of knowledge and</td>
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<td>skills in the assessment and management of</td>
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<td>children and their families. The course focuses</td>
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<td>on common health problems and management of</td>
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<td>alterations in children and their families.</td>
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<td>Prerequisites:</td>
<td>NGR 6172 and (NGR 6240C or (NGR 6240 and NGR</td>
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<td>6240L ) )</td>
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<td>corequisites:</td>
<td>NGR6305L</td>
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<td>NGR 6400</td>
<td>Chem &amp; Phys in Nurse Anesthesia</td>
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<tr>
<td></td>
<td>Biochemical principles of mechanisms, actions,</td>
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<td></td>
<td>and theories as they apply to perioperative</td>
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<td>nursing practice.</td>
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<tr>
<td>NGR 6405</td>
<td>Adv. Principles NA Practice II</td>
<td>3</td>
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<tr>
<td></td>
<td>An in-depth study of perioperative management</td>
<td></td>
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<td></td>
<td>of patients experiencing cardiovascular,</td>
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<td></td>
<td>respiratory, endocrine, renal, hepatic,</td>
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<td>and neurological disease and traumatic injury.</td>
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<td>Prerequisites:</td>
<td>NGR 6421</td>
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<tr>
<td>NGR 6410</td>
<td>Perioperative Technology</td>
<td>1</td>
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<tr>
<td></td>
<td>Theory and principles related to technological</td>
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<td></td>
<td>devices used in perioperative nursing. Emphasis</td>
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<td></td>
<td>on operation and use of monitoring devices</td>
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<td></td>
<td>such as transducers, oximeters, and capnographs.</td>
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<td>Prerequisites:</td>
<td>NGR6460</td>
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<tr>
<td>NGR 6420</td>
<td>Basic Principles of Anesthesia</td>
<td>3</td>
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<td></td>
<td>Broad field orientation to perioperative</td>
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<td>nursing practice.</td>
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<td>corequisites:</td>
<td>NGR6460</td>
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<tr>
<td>NGR 6421</td>
<td>Adv. Principles of Anesthesia I</td>
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<td></td>
<td>Perioperative management for childbearing</td>
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<td></td>
<td>women, children, and seniors.</td>
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<td>Prerequisites:</td>
<td>NGR 6420</td>
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<td>NGR 6460</td>
<td>Pharmacology I</td>
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<td></td>
<td>Study of pharmacokinetic, pharmacodynamic, and</td>
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<td>clinical use of anesthesia agents in the</td>
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<td>perioperative management of anesthetic drugs.</td>
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<td>corequisites:</td>
<td>NGR6460</td>
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<tr>
<td>NGR 6461</td>
<td>Pharmacology II</td>
<td>4</td>
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<td></td>
<td>Study of the pharmacokinetic, pharmacodynamic,</td>
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<td>and clinical use of adjuvant drugs in the</td>
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<td>perioperative management of anesthesia</td>
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<td>administration.</td>
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<td>Prerequisites:</td>
<td>NGR 6140 and NGR 6420</td>
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<td>corequisites:</td>
<td>NGR6144</td>
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<tr>
<td>NGR 6491</td>
<td>Synthesis Seminar</td>
<td>3</td>
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<td>Comprehensive review of preparation for</td>
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<td>national certification examination.</td>
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<td>Prerequisites:</td>
<td>NGR 6149 and NGR 6405 and NGR 6461</td>
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<td>NGR 6710</td>
<td>Tching&amp;Assess Strat in Nsg Edu</td>
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<td></td>
<td>Emphasis is on attainment of nurse educator</td>
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<td>competencies in developing and implementing</td>
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<td>teaching and assessment strategies used in</td>
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<td></td>
<td>classroom, labatory, and clinical settings</td>
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<td>to enhance the achievement of learner outcomes.</td>
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<td>Prerequisites:</td>
<td>NGR 6002C and NGR 6141 and NGR 6740</td>
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<td>NGR 6712</td>
<td>Foundations of Nursing Educ.</td>
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<td></td>
<td>Exploration of nursing education within a broad</td>
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<td>context related to history, philosophy and the</td>
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<td>principles of adult-learning theory.</td>
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<td>NGR 6713</td>
<td>Design&amp;Eval of Nurs Curricula</td>
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<td></td>
<td>Emphasis is on the role of the nurse educator</td>
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<td>in developing program outcomes, and designing</td>
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<td>and evaluating nursing curricula that reflect</td>
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<td>contemporary health care trends in which</td>
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<td>graduates are prepared to practice in a complex,</td>
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<td>dynamic, multicultural health care environments.</td>
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<td>Prerequisites:</td>
<td>NGR 6002C for level GR with min. grade of and</td>
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<td>NGR 6141 for level GR with min. grade of and</td>
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<td>NGR 6740 for level GR with min. grade of</td>
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<tr>
<td>NGR 6731</td>
<td>Entrepreneurship</td>
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<td></td>
<td>Synthesis and practical application of</td>
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<td>entrepreneurial strategies for advanced practice.</td>
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<td>NGR 6740</td>
<td>Concepts/Roles of Adv Practice</td>
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<td></td>
<td>Examination of professional, organizational,</td>
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<td>legal, ethical, political, and economic</td>
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<td>influences on advanced nursing. Standards and</td>
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<td>scope of practice are explored.</td>
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NUR 6740 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 6713 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) 
Corequisites: NUR3125 

NUR 3125 Pathophysiology in Nursing 3 credits 
A systems approach to the major pathologies and related physiologic responses. 
Prerequisites: BSC 1085C for level UG with min. grade of C and BSC 1086C for level UG with min. grade of C 

NUR 3145 Pharmacology for Nursing 3 credits 
A systems approach to the major pharmacological classifications and alternative therapies. 
Prerequisites: BSC 1085C for level UG with min. grade of C and BSC 1086C for level UG with min. grade of C 

NUR 3226 Adult Health Nursing I 3 credits 
A systems approach to the nursing care of diverse individuals with alterations in health. 
Prerequisites: NUR 3065C for level UG with min. grade of C (May be taken concurrently) and NUR 3125 for level UG with min. grade of C (May be taken concurrently) and NUR 3145 for level UG with min. grade of C (May be taken concurrently) and NUR 3829C for level UG with min. grade of C (May be taken concurrently) 
Corequisites: NUR3226 

NUR 3226L Adult Health Nursing I Clinical 4 credits 
Clinical practice experiences offer students opportunities to provide safe, appropriate nursing care for patients with acute, chronic, or life-threatening health problems. 
Prerequisites: NUR 3065C for level UG with min. grade of C (May be taken concurrently) and NUR 3125 for level UG with min. grade of C (May be taken concurrently) and NUR 3145 for level UG with min. grade of C (May be taken concurrently) and NUR 3825 for level UG with min. grade of C (May be taken concurrently) and NUR 3829C for level UG with min. grade of C (May be taken concurrently) 
Corequisites: NUR3226L 

NUR 3286 Gerontological Nursing 2 credits 
A systems approach to the nursing care of the aging individual and their families. 
Prerequisites: NUR 3065C and NUR 3125 and NUR 3829C
A systems approach to nursing care of aging individuals and their families. ~ Course ended 201101
Prerequisites: NUR 3065C and NUR 3125 and NUR 3145 (May be taken concurrently) and (NUR 3829C or NUR 3105C)
Fee Required

NUR 3286L Gerontological Nursing Clinic 1 credit
Clinical Practice experiences provide the student with the opportunity to apply principles of gerontological and end-of-life care.
Prerequisites: NUR 3065C and NUR 3125 and NUR 3829C
Corequisites: NUR3286L

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 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
Corequisites: NUR3355L

NUR 3355L Child Health Nursing Clinic 1 credit
Students practice nursing care of families with ill infants and children and health promotion/maintenance for families with infants and children.
Prerequisites: NUR 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
Corequisites: NUR3355

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. ~ Course ended 201101
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. ~ Course ended 201101
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. ~ Course ended 201101
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. ~ Course ended 201101
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: NUR3145

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 for level UG with min. grade of C and NUR 3829C for level UG with min. grade of C and NUR 3125 for level UG with min. grade of C
Corequisites: NUR3535L

NUR 3535L Mental Health Nursing Clinical 1 credit
Clinical practice experiences provide students with the opportunity to provide care for patients and families experiencing mental health disorders.
Prerequisites: NUR 3065C for level UG with min. grade of C and NUR 3829C for level UG with min. grade of C and NUR 3125 for level UG with min. grade of C
Corequisites: NUR3535

NUR 3825 Intro to Professional Nursing 2 credits
An introduction to the history and professional role development of nursing.

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 for level UG with min. grade of C (May be taken concurrently) and NUR 3829C for level UG with min. grade of C (May be taken concurrently) and NUR 3825 for level UG with min. grade of C (May be taken concurrently) and NUR 3125 for level UG with min. grade of C (May be taken concurrently) and NUR 3226 (May be taken concurrently) and NUR 3226L (May be taken concurrently)

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 conjunction with moral development, ethical decision-making and leadership in nursing. ~ Course ended 201101
Prerequisites: NUR 4041

NUR 4169 Evidence-Based Nursing Prac. 3 credits
Focus on improving patient outcomes through an evidence-based nursing practice approach in symptom assessment, intervention, and evaluation.
Prerequisites: IHS 4504 and NUR 3226 and NUR 3226L
NUR 4227 Adult Health Nursing II 3 credits
A systems approach to nursing care of diverse individuals with alterations in health.
Prerequisites: NUR 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C
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 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
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 4227 for level UG with min. grade of C and NUR 4227L for level UG with min. grade of C

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 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
Corequisites: NUR4455L

NUR 4455L Reproductive Health Nurs Clinic 1 credit
Clinical practice experiences provide the students with the opportunity to apply principles of family and reproductive health nursing.
Prerequisites: NUR 3145 for level UG with min. grade of C (May be taken concurrently) and NUR 3226 for level UG with min. grade of C (May be taken concurrently) and NUR 3226L for level UG with min. grade of C (May be taken concurrently)
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 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
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. ~ Course ended 201101
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 Commn & 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 3145 for level UG with min. grade of C and NUR 3226 for level UG with min. grade of C and NUR 3226L for level UG with min. grade of C
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. ~ Course ended 201101
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: NUR4756L

NUR 4756C Pop Based Care:Vulnerable Pops 5 credits
Introduction to nursing care of adults with common acute and chronic health conditions. ~ Course ended 201101
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. ~ Course ended 201101
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. ~ Course ended 201101
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. ~ Course ended 201101
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 4767L Crisis Based Care Clinical 2 credits
Experiences in care setting with patients with complex acute and chronic health conditions are the focus of practice. ~ Course ended 201101
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: 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. ~ Course ended 201101

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.  ~ Course ended 201101 
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.  ~ Course ended 201101 
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.  ~ Course ended 201101 
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 3829C 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 3829C 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 varous 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 or (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 credit 
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

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 1110 for level UG with min. grade of C and BSC 1111L 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) )

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCG 6053</td>
<td>Coastal &amp; Watershed Geol</td>
<td>3</td>
<td>Considers those geological and hydrological processes that occur at the Earth's surface. Topics include: physical and chemical weathering, soil formation, sedimentology and stratigraphy.</td>
</tr>
<tr>
<td>OCP 3002C</td>
<td>Physical Oceanography</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>ORH 2220C</td>
<td>Turfgrass Mgt Operations</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ORI 3000</td>
<td>Intro Communication as Perform</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 3012C</td>
<td>Dynamics of Communication</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 3417C</td>
<td>Gross Human Anatomy</td>
<td>4</td>
<td>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</td>
</tr>
<tr>
<td>OTH 3429C</td>
<td>Neuroanatomy &amp; Function</td>
<td>3</td>
<td>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. Prosected specimens and models are used. Prerequisites: OTH 3417C Fee Required</td>
</tr>
<tr>
<td>OTH 4932</td>
<td>Special Topics Seminar</td>
<td>1 to 4</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 5817</td>
<td>Advancing Prac in Elder Care</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 6002</td>
<td>OT History and Foundations</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 6009</td>
<td>Theory in Occupational Therapy</td>
<td>3</td>
<td>Comprehensive study of theory underpinning current occupational therapy practice; clinical reasoning; application of theory in context.</td>
</tr>
<tr>
<td>OTH 6018</td>
<td>Professional Practice</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 6026C</td>
<td>Group Process and Management</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>OTH 6106C</td>
<td>Technology in Practice</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>OTH 6226C</td>
<td>Evaluation of Perform Issues</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>OTH 6235C</td>
<td>OT Interventions</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>OTH 6414C</td>
<td>Applications in Human Anatomy</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>OTH 6415C</td>
<td>Human Motion in Activity</td>
<td>3</td>
<td>Analysis of human movement incorporating mechanical, biological, developmental and environmental factors. Basic skills in assessment of motor performance are developed.</td>
</tr>
</tbody>
</table>
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 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.

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 credit
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 credit
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.
Fee Required

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 web 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 credit
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 sector. Introduces students to e-government applications; 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 public services environment.

PAD 3870 Pub. Admin. Super. I 3 credits
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 both on theory and practice and an examination of the process from the public and private sector as well as community self-help efforts.

PAD 5356 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 historical development, the role of the courts and administrative agencies, 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 sub-national 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 Srvce 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 governance. 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.
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) ) 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 3035C 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.
Fee Required

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 (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 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)

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, adaptations 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 Mon & Res 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 and CHM 1046C for level UG with min. grade of C and CHM 1046L 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 or 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 (BSC 1010 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 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 4443C 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 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
Chemical and physical properties of the plasma membrane.
Investigation of plasma 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: BCH 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
Independent 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

PEL 3120 PGA Prep I 1 credit
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

PEL 3125 PGA Prep 2 1 credit
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: PEL 3120 (May be taken concurrently)

PEL 3127 PGA Prep 3 1 credit
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: PEL 3125

PEL 3128 PGA Prep 4 1 credit
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: PEL 3127

PET 3627C  Care & Prevent HP Injuries  3 credits
Study of Prevention, Recognition, Treatment and Rehabilitation of Human Performance Injuries. Students will learn acute care injuries, learn safety precautions and emergency procedures.
Prerequisites: APK 4125C for level UG with min. grade of C

PET 3670  Clinical Practice I  1 credit
Student’s first of five athletic training clinical experiences that explore concepts of examination, evaluation, and basic interventions in direct patient/client care. Students will gain experience in basic athletic training skills through equipment intensive sports.

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 credit
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: PEL 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: PEL 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 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: PHT 3176C 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 PHT 3177C
Corequisites: APK4110L
Fee Required

PET 3660  Athletic Health Care Admin  3 credits
The course will cover principles of organization and administration for athletic health care facilities. Emphasis will be placed on facility organization and design, budgeting, legal liability, health insurance reimbursement, human resources, and issues related to health care.

PET 3671  Clinical Practice II  1 credit
Student’s second of five athletic training clinical experiences that explore concepts of examination, evaluation, and interventions in direct patient/client care. Students will gain experience in mid-level athletic training skills through an additional clinical rotation.
Prerequisites: PET 3670

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 3614C

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.

PET 4671  HP Clinical Practice II  3 credits
Capstone course synthesizing knowledge and skills gained throughout the Athletic Training Education Program. Explore the Athletic Trainer's role within interdisciplinary work environment during a16 week clinical rotation.
Prerequisites: PET 4619C and PET 4670

PET 4672  Clinical Practice III  1 credit
Student’s third of five athletic training clinical experiences that explore concepts of examination, evaluation, and interventions in direct patient/client care. Students will gain experience in mid-level athletic training skills through a general medicine rotation.
Prerequisites: PET 3671

PGY 2801  Intro to Digital Photography  3 credits
An introduction to the technical methods and creative opportunities in digital photography, including formal composition, image management, electronic manipulation, online display, and printing processes.
Prerequisites: ART 1201 or ART 1300
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 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 ST 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 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. Must meet state requirements for writing-intensive courses.  
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 3550 Philosophy of Nature 3 credits
This course will draw on primary texts in the Western Philosophical tradition in order to analyze how idea of nature has been conceptualized in different historical epochs.

PHI 3670 Ethics in Theory and Practice 3 credits
This course will cover major ethical ideas and theories from different philosophical perspectives 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 4051 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: PHI 4051

PHM 3351 Philosophy of Human Rights 3 credits
An advanced introduction to classical and contemporary philosophical arguments and problems involved in human rights 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.
PHT 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/neurophysiological changes through the lifespan and applications to health care are investigated.

PHT 3156C Physio Dimensions Human Activty 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.

PHT 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.

PHT 3177C Movement Science II 5 credits
Studies and applies anatomical, biochemical, behavioral, biomechanics, physiological and developmental aspects of movement science. Prerequisites: PHT 3176C

PHT 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.

PHT 3902 Comm-Based Exper Hlth Care II 1 credit
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: PHT 3901

PHT 4008 Topics in Physical Therapy II 1 credit
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: PHT 3007

PHT 4107C Integrated Human Anat Neuro II 5 credits
Students are led through in-depth study of body systems. Anatomical and neurophysiological changes through the lifespan and applications to health care practice will be emphasized. Prerequisites: PHT 3106C

PHT 4108C Integrated 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.
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 5860 Introductory Clinic Experience 1 credit**
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
Corequisites: PHT6394C

**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 PDS1: 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 concepts 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 Movmt 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, physiological 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
Corequisites: PHT6393C

**PHT 6395C Movmt Science Foundations III 5 credits**
Exploration of the six foundational sciences in which the practice of physical therapy is grounded. Content focuses on the study and the integration of the anatomical, biochemical, behavioral, biomechanical, physiological and developmental aspects of movement science.
Prerequisites: PHT 6393C for level GR with min. grade of B
Corequisites: PHT6607

**Fee Required**

**PHT 6396C Physical Therapy Practice II 5 credits**
Introduces case-based learning as it applies to contemporary physical therapist practice in a variety of health care settings. Students examine physical therapy cases across the lifespan, utilizing the clinical decision-making model and a problem-based learning process.
Prerequisites: PHT 6394C for level GR with min. grade of B
Corequisites: PHT6395C

**PHT 6397C Physical Therapy Practice III 5 credits**
Examines contemporary physical therapist practice in a variety of health care settings. Students interpret physical therapy cases across the lifespan, applying the clinical decision-making model and a problem-based learning process.
Prerequisites: PHT 6396C for level GR with min. grade of B and PHT 6395C for level GR with min. grade of B
Corequisites: PHT6822

**PHT 6398C Physical Therapy Practice IV 7 credits**
Examines contemporary physical therapist practice in a variety of health care settings. Students analyze physical therapy cases across the lifespan integrating the clinical decision-making model and a problem-based learning process.
Prerequisites: PHT 6397C for level GR with min. grade of B
Corequisites: PHT6527

**PHT 6412 PDS II: Teaching and Learning 3 credits**
Studies in teaching and learning applied to various settings in which physical therapists educate others.
Prerequisites: PHT 6026 for level GR with min. grade of B
Corequisites: PHT6413

**PHT 6413 PDS III: Sociocultural Influence 3 credits**
Investigates sociocultural influences on belief/behavior systems including culture and family issues through the lifespan.
Prerequisites: PHT 6026
Corequisites: PHT6412

**PHT 6507 PDS V: Medical Spanish for PT 1 credit**
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: PHT76729C

**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 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 credit
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 of 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 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 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 6974  Thesis Research IV  1 credit
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 7390C  Physical Therapy Practice V  7 credits
Examines contemporary physical therapist practice in a variety of health care settings. Students analyze complex physical therapy cases across the lifespan integrating the clinical decision-making model and a problem-based learning process.
Corequisites: PHT7528
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 7390C
Corequisites:  PHT7946

PHT 7528  PDS VI-Legal/Ethical HC Policy  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
Corequisites:  PHT7390C

PHT 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:  PHT7946

PHT 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

PHT 7909  Independent Study IV  3 credits
Final phase of independent study process, development of thesis and
independent study project.
Prerequisites:  PHT 7908

PHT 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:  PHT7529

PHT 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

PHT 7974  Independent Research IV  3 credits
Final portion of independent focused study begun in Independent
Study I-III; culminates in scholarly, reflective paper and portfolio
that examine the process and outcomes; presents an oral summary of
work during oral defense.
Prerequisites:  PHT 7973

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

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. Note: A
prerequisite equivalent to MAC 1147 is acceptable.
Prerequisites:  MAC 1147 for level UG with min. grade of D
Fee Required

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 credit
Additional problems in mechanics. Designed to allow investigation
of problems not covered in the general physics course.
Corequisites:  PHY2048C

PHZ 2103  Problem Solving II  1 credit
Additional problems general physics with calculus.
Corequisites:  PHY2049C

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 3277  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 3436 Business Organizations 3 credits
Five primary areas of interest: corporations, partnerships, sole proprietorships, joint ventures, and agency law. Students determine the organization or interest to best suit their clients' needs and prepare the appropriate forms for each. Agency law and its impact on each of these organizations are also discussed.

PLA 3703 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 3764 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 3806 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 4605 FL Trusts, Estates & Probate 3 credits
Document drafting regarding Florida estates, trusts, probate, wills, guardianships, etc.

PLA 4616 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 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.

POR 1120 Beginning Portuguese I 3 credits
Introduction to basic Portuguese language skills through intensive communication, reading, writing, and culture.
Corequisites: Por1120L

POR 1120L Beginning Portuguese I Lab 1 credit
Introduction to basic Portuguese language skills through intensive communication, reading, writing, and culture.
Corequisites: Por1120

POR 1121 Beginning Portuguese II 3 credits
Introduction to basic Portuguese language skills through intensive communication, reading, writing, culture.
Prerequisites: Por 1120 and Por 1120L
Corequisites: Por1121L

POR 1121L Beginning Portuguese II Lab 1 credit
Introduction to basic Portuguese language skills through intensive communication, reading, writing, culture.
Prerequisites: Por 1120 and Por 1120L
Corequisites: Por1121

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
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>POS 3250</td>
<td>Political Communication</td>
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<td>POS 3270</td>
<td>Political Campaigns/Elections</td>
<td>3</td>
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<td>POS 3411</td>
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<td>POS 3424</td>
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<td>POS 3691</td>
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<td>POS 4072</td>
<td>Women in Politics &amp; Govt</td>
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<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POS 4152</td>
<td>Urban Politics and Problems</td>
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<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POS 4614</td>
<td>Constitutional Law</td>
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<tr>
<td>POS 4734</td>
<td>ResMeth and Analysis in PolSci</td>
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<tr>
<td>POS 4905</td>
<td>Independent Study</td>
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<tr>
<td>POS 4911</td>
<td>Dir Research Admin and Policy</td>
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<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POS 4931</td>
<td>Spec Topics in Political Sci.</td>
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<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POS 4936</td>
<td>Senior Seminar</td>
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<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POS 4941</td>
<td>Political Science Internship</td>
<td>3</td>
<td>ENC 1102 for level UG with min. grade of C</td>
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<tr>
<td>POT 3075</td>
<td>Culture and Politics</td>
<td>3</td>
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</tr>
<tr>
<td>POT 3501</td>
<td>Politics, Ethics, &amp; Pol Theory</td>
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<tr>
<td>POT 4074</td>
<td>Theories of Power</td>
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<tr>
<td>POT 4932</td>
<td>Sp Topics -Politics/Humanities</td>
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<tr>
<td>PPE 4003</td>
<td>Psychology of Personality</td>
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<tr>
<td>PSB 4002</td>
<td>Physiological Psychology</td>
<td>3</td>
<td>ENC 1102 for level UG with min. grade of C</td>
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</tbody>
</table>

 POS 3250 Political Communication: 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: 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: 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: 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: An examination of how laws and legal processes interact with politics and culture in shaping policy understandings and outcomes. Prerequisites: ENC 1102.

 POS 4072 Women in Politics & Govt: 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: 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: 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. Divison 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: 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: Independent study in political science under faculty supervision.

 POS 4911 Dir Research Admin and Policy: Student research in public administration and/or public policy under a faculty advisor. Prerequisites: ENC 1102.

 POS 4931 Spec Topics in Political Sci.: Examination of a selected topic within political science. Topics may vary depending on instructor. Prerequisite: ENC 1102.

 POS 4936 Senior Seminar: Required integrative seminar for senior Political Science majors. Examines the contemporary political environment and visions of the political future. Prerequisites: POS 4734.

 POS 4941 Political Science Internship: Experiential learning through an internship at a department-approved public or not-for-profit organization. Prerequisites: ENC 1102.

 POT 3003 Political Theorists: 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: 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: 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: 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: 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: 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: 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: PSY 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 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 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: POS 3043

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.

PUP 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.

PUP 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.
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.
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

RED 4344 Methods of Teaching Reading 3 credits
This course is designed for students who need a comprehensive foundations of research-based practices course in the teaching of reading K-12. Content includes the principles of scientifically base reading research, the reading process, reading instruction, components of reading, student mastery, teacher reflection, and professional development. Content is based upon the Florida online For-PD course.
Prerequisites: EDG 4343

RED 4350 Literacy Content & Processes 3 credits
The second course that examines literacy from an integrated perspective. The intermediate elementary and middle school child is the focus for the study that includes assessment and instructional planning for developmental reading, writing, listening, speaking, and the support skills for the language arts with an emphasis on content area literacy.
Prerequisites: EDF 3201 for level UG with min. grade of C and EDG 3201 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, including and theories of reading disabilities, develop ways to promote literacy development across the curriculum with an emphasis on content area reading.

RED 5147L Developmental Reading 3 credits

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.

RED 6544 Comprehension & Cognition 3 credits
Advanced classroom reading instruction that explores reading as a process of constructing meaning in the K-12 classroom. Connections to ways that reading comprehension is supported by writing and listening.

RED 6545 Vocabulary & Word Study 3 credits
Advanced classroom reading methods to teach the fluent decoding of words and the construction meaning for students K-12.

RED 6656 Instruct Struggling Readers 3 credits
An analysis of research relevant to the identification, placement, and instructional strategies effective with students with reading difficulties, learning disabilities, and diverse populations in the area of literacy. Differentiated instruction and strategies to use with struggling readers are examined.

RED 6846 Practicum 3 credits
Application of knowledge gained with supervision, guidance, and support of colleagues and university professors.

RED 6971 Thesis: Masters/Ed Specialist 1 to 19 credits

REE 3043 Real Estate Fundamentals 3 credits
Study of the business aspects of real estate ownership, contracts, deeds, titles, mortgages, property law, and regulations.

REE 3103 Valuation of Real Property 3 credits
Introduction to the appraisal process. Acquaints the student with the appraisal language and demonstrates the application of a variety of valuation techniques. Topics include determination and estimation of future flows of income and costs, and market criteria that affect the value of commercial, industrial and residential real property. Prerequisites: FIN 3403 for level UG with min. grade of C

REE 3303 Real Estate Inv Decision Mkng 3 credits
Advanced concepts of acquisition, ownership and disposition of investment property, taxation, risk/return, cash flow forecasting, financial structuring process, case analysis, strategy formulation for real property. Prerequisites: FIN 3403 for level UG with min. grade of C

REE 3433 FL Real Estate License Law 3 credits
This course focuses on licensing law, related state and federal property and commercial laws for real estate salespersons.

REE 4941 Internship in Real Estate 3 credits
Practical application in a clinical setting of knowledge acquired in real estate coursework. (Department approval required) (S/U only) Prerequisites: FIN 3403

REE 6305 RealEstate Investmnt Decisions 3 credits
Advanced concepts, principles, and models of real estate finance and investment analysis. Emphasis on case analysis and policy formulation. Prerequisites: FIN 6406

REE 6435 Real Estate Law 3 credits
This course introduces the student to the various areas of real estate law including: liens, mortgages, construction loans, mortgage foreclosure and redemptions, subdivisions, building restrictions, zoning, condominium ownership, and environmental issues.

REE 6735 Land Acquisition, Subdivid & 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 and other areas of insurance, analysis of insurance as a principal means of managing 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.

RUS 1120 Beginning Russian I 3 credits
Development of basic Russian language skills with emphasis on communication, reading, writing, and culture. Corequisites: RUS1120L

RUS 1120L Beginning Russian I Lab 1 credit
Development of basic skills emphasizing communication, reading, writing, and culture. Corequisites: RUS1120

RUS 1121 Beginning Russian II 3 credits
Development of basic Russian language skills with emphasis on
communication, reading, writing, and culture.
Prerequisites: RUS 1120 and RUS 1120L
Corequisites: RUS1121L

RUS 1121L Beginning Russian II Lab 1 credit
Development of basic Russian language skills with emphasis on
communication, reading, writing, and culture.
Prerequisites: RUS 1120 and RUS 1120L
Corequisites: RUS1121L

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 Classrm 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 and EDF 3201 for level UG with min. grade of C) or EDG 4343 for level UG with min. grade of C

SCE 4320 Teach Methods Mid Grades Sc 3 credits
Survey techniques and materials unique to science, grades 5-9. Not designed for high school certification purposes.

SCE 4330 Science Methods 6-12 3 credits
Techniques and materials of instruction in middle and secondary school sciences.
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

SCE 4936 Senior Seminar: Science Ed 3 credits
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.
Prerequisites: SCE 4941 for level UG with min. grade of S
Corequisites: SCE4940

SCE 4940 Internship: Science Education 9 credits
Semester-long internship, five days per week, to refine and demonstrate effective teaching practices. Students will assume the role in selected schools or agencies.
Prerequisites: SCE 4941 for level UG with min. grade of S
Corequisites: SCE4936

SCE 4941 Integ Field Exper: Science 3 credits
Semester long internship to observe and demonstrate effective teaching practices. Student will partially assume 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 EDF 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

SCE 5937 Special Topics in Science Ed 1 to 4 credits
Special topics which can be repeated when topics are not duplicated.
include the nature, variety and consequences of human sexual behavior.
Prerequisites: PSY 2012 for level UG with min. grade of C

SOP 4004 Social Psychology 3 credits
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)

SOP 4714C Environmental Psychology 3 credits
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)

SOP 4751 Psychology & Law 3 credits
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.
Prerequisites: PSY 2012

SOP 4777 Psychology of Human Sexuality 3 credits
This is an advanced course designed to introduce students to the scientific study of human sexuality. The variety of topics covered each semester will differ based on student choices of sexual topics and psychological theories.
Prerequisites: PSY 3017 and STA 2122 and SOP 2770

SOW 3036 Intro to Soc Work/Soc Welfare 3 credits
An overview of the profession of social work including the history, philosophy, ethics, values, interventions, and fields of practice in generalist social work.

SOW 3101 HBSE I 3 credits
Theories and concepts of human biopsychosocial development within an ecological framework, focusing on individuals and families.
Prerequisites: ( or BSC 1010 for level UG with min. grade of C or BSC 1010C for level UG with min. grade of C) or BSC 1005 for level UG with min. grade of C or BSC 1085C for level UG with min. grade of C) and PSY 2012 and (SYG 2000 or SYG 2010)

SOW 3102 HBSE II 3 credits
Theories and concepts of human biopsychosocial development within an ecological framework, focusing on groups, communities, and organizations.
Prerequisites: SOW 3101 for level UG with min. grade of C

SOW 3232 Social Policy 3 credits
Analysis of social welfare policy; application of policy research; advocacy for policy consistent with social work values; and understanding the financial, organizational, administrative, and planning processes required to deliver social services. Prerequisites: SOW 3102; SOW 3322; ECO 2023 or ECO 2013, or Introduction to Economics; POS 2112 or POS 2012
Prerequisites: SOW 3102 and SOW 3322 and (ECO 2023 or ECO 2013) and (POS 2112 or POS 2041)

SOW 3300 Practice I 3 credits
Generalist social work practice knowledge and skills with individuals and families including theoretical perspectives, ethics and values, the social work relationship, interviewing, planned change process, and intervention skills.
Corequisites: SOW3101

SOW 3322 Practice II: Groups 3 credits
Generalist social work practice knowledge and skills with groups including theoretical perspectives, ethics and values, the social work relationship, group leadership and facilitation, planned change process, and intervention skills.
Prerequisites: SOW 3300
Corequisites: SOW3102

SOW 4060 BSW Field Education I 6 credits
Supervised field internship required of all BSW majors. Placement is made by the Coordinator of Field Education. 250 contact hours are required. This course is section I of the field requirement.
Prerequisites: SOW 4401 (May be taken concurrently)
Corequisites: SOW4521

SOW 4061 BSW Field Education II 6 credits
Part II of the required supervised field experience consisting of 250 contact hours in the same agency as Field Education I unless otherwise directed by the Coordinator of Field Education.
Prerequisites: SOW 4060
Corequisites: SOW4522

SOW 4194 Inter-relational Violence 3 credits
Examines dynamics related to inter-relational violence and the dynamic constructs of violence, offender profiles and victim intervention strategies.

SOW 4274 International Social Work 3 credits
Explores the social meanings and implications of different groups 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, developmental and physically disabled, chronic substance abusers, and those in health care settings.
Prerequisites: SOW 3322

SOW 4332 Practice III 3 credits
Generalist social work practice knowledge and skills with organizations, institutions and communities including theoretical perspectives, ethics and values, the social work relationship, planned change process, and intervention skills.
Prerequisites: SOW 3322

SOW 4401 Social Work Research 3 credits
Social work research methods, including the use of statistical software; focus on critical thinking; use of research in practice.
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 3232 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 portrait 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, policy, practice, service delivery, and community needs for services in 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
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.
Prerequisites: SOW 6383
Corequisites: SOW6386

SOW 6386  Administration II  3 credits
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.
Prerequisites: SOW 6383 (May be taken concurrently)

SOW 6405  Research I: Methods  3 credits
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.
Prerequisites: SOW 6306 (May be taken concurrently)

SOW 6435  Research II: Practice Eval  3 credits
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.
Prerequisites: SOW 6616 (May be taken concurrently)

SOW 6532  Field Education I  3 credits
This course provides full-time foundation year students the opportunity to learn and to apply beginning generalist social work skills to various client systems in a social service agency setting. Students will spend a minimum of 16 hours per week or 250 hours per semester in the agency.
Corequisites: SOW6305

SOW 6533  Field Education II  3 credits
This course is offered in the spring semester for full-time foundation year students. Students will continue to learn beginning generalist social work skills and to apply them to a variety of client systems. Students will spend a minimum of 16 hrs per week or 250 hours per semester in the agency.
Prerequisites: SOW 6532

SOW 6535  Field Instruction III  3 credits
This course provides full-time concentration year students with the opportunity to learn and to apply advanced community clinical social work practice skills to various client systems in a social service agency setting. Students will spend a minimum of 16 hours per week or 250 hours per semester in the agency.
Corequisites: SOW6616

SOW 6537  Field Education IV  3 credits
This course in the spring semester is offered to full time concentration year students. Students will continue to learn advanced community clinical social work practice skills and to apply them to a variety of client systems. Students will spend a minimum of 16 hours per week or 250 hours per semester in the agency.
Prerequisites: SOW 6535

SOW 6552  Field Education IC  2 credits
Part-time foundation year students will learn and apply beginning generalist social work skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 120 hours per semester in the agency.
Prerequisites: SOW 6554

SOW 6554  Field Education IB  2 credits
Part time foundation year students will learn and apply beginning generalist skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 190 hours per semester in the agency.
Prerequisites: SOW 6565

SOW 6565  Field Education IA - Part Time  2 credits
This course occurs in the fall semester. It provides part time foundation year students the opportunity to learn and to apply beginning generalist social work skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 190 hours per semester in the agency.
Corequisites: SOW6305

SOW 6566  Field Education IIA -Part Time  2 credits
This course occurs in the summer semester. It provides part time concentration year students the opportunity to learn and to apply advanced community clinical social work practice skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 120 hours per semester in the agency.
Prerequisites: SOW 6552

SOW 6570  Field Education IIB  2 credits
Part time concentration year students will learn and apply advanced community clinical social work practice skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 190 hours per semester in the agency.
Prerequisites: SOW 6566
### Course Descriptions

#### SOW 6571 Field Education IIC 2 credits
Part time concentration year students will learn and apply advanced community clinical social work practice skills to various client systems in a social service agency setting. Students will spend a minimum of 12 hours per week or 190 hours per semester in the agency.
Prerequisites: SOW 6570

#### SOW 6611 Adv. Clin. Pract.: Fam/Couples 3 credits
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.
Prerequisites: SOW 6616

#### SOW 6616 Adv. Clin. Practice with Ind. 3 credits
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.
Prerequisites: SOW 6235 (May be taken concurrently) and SOW 6105 (May be taken concurrently) and SOW 6236 (May be taken concurrently) and SOW 6106 (May be taken concurrently) and SOW 6305 (May be taken concurrently) and SOW 6405 (May be taken concurrently) and SOW 6306 (May be taken concurrently)
Corequisites: SOW6124

#### SOW 6629 Human Diversity & Oppression 3 credits
Introduction to human diversity and oppression, including structural and critical analysis. Critical empowerment, strength perspective plus commitment to advocating with clients for social justice are also features of this course.

#### 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 put these principles to work.

#### SPC 1595 Intercollegiate Speech Debate 1 credit
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 credit
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 Communication 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 3331 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
SPC 3513 Argumentation and Debate 3 credits

SPC 3543 Ecological Communication 3 credits
Theories and practice 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 credit
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 credit
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.

SPC 3604 Environmental Public Speaking 3 credits
Gives 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.

SPC 3721 Interracial/Intercultural Communication 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 Communication 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. Study 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 Management 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)

Prerequisites: MAN 3025 and MAN 3063 and MAN 3281

SPM 3024 Contemporary Issues in Sport Management 3 credits
Examines the nature of various sports and their role in American society from contemporary perspectives. The relationship between sports and such issues as gender, race, class, ethnicity, and Title IX will be explored as to how they affect the sport product and the sport enterprise. Current issues will be discussed and analyzed as to how they influence and are influenced by the social and cultural context in which they are managed and played.

Prerequisites: SPM 3004

SPM 4104 Sport Facility and Event Management 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 communication 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 credit
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 credit
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 min. grade of D)
Corequisites: SPN1121

SPN 1130 Acc Span for NN Speaker & Oths 1 to 6 credits
This is the entire first year of Spanish condensed into one semester consisting of two sessions of six weeks of class. The course offers intensive exposure with emphasis on communicational Spanish and lab work, covering the same content as SPN 1120 and SPN 1121. It can be taken as a six-credit block, or the first part SPN 1130 alone (the second part can be satisfied with SPN 1121 in a regular semester). Highly recommended for Spanish majors.

SPN 2201 Intermediate Spanish II 3 credits
This is the second half of second year Spanish.
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) or (SPN 2200 for level UG with min. grade of C and SPN 2200L for level UG with min. grade of C)
Corequisites: SPN2201L

SPN 2201L Intermediate Spanish II Lab 1 credit
This is the lab that accompanies SPN 2201.

Corequisites: SPN2201

SPN 2220 Intermediate Spanish I 3 credits
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 1121 for level UG with min. grade of C and SPN 1121L 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

SPN 2220L Intermediate Spanish I Lab 1 credit
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

SPN 2240 Conversation 3 credits
Development of basic conversational skills. The class is not open to native or near-native speakers of Spanish.

SPN 2241 Conversation II 3 credits
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 2201 for level UG with min. grade of C and SPN 2201L for level UG with min. grade of C and SPN 2240 for level UG with min. grade of C

SPN 2270 Study Abroad 1 to 6 credits
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

SPN 3013 Span for Professional Pers 3 credits
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.

SPN 3013L Span for Professional Pers Lab 1 credit
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: SPN3013

SPN 3022 Spanish for Teachers I 3 credits
This course focuses on the linguistic needs of those in education working with Spanish speakers.
Corequisites: SPN3013L

SPN 3023 Spanish for Teachers II 3 credits
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
SPN 3040  Span for Crim Just Pers I  3 credits
This course focuses on the linguistic needs of those in criminal justice working with Spanish speakers.
Corequisites: SPN3013L

SPN 3041  Span for Crim Just Pers II  3 credits
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

SPN 3043  Spanish for Human Services I  3 credits
This course focuses on the linguistic needs of those in Human Services working with Spanish speakers.
Corequisites: SPN3013L

SPN 3044  Spanish for Human Services II  3 credits
This course focuses on the linguistic needs of those in Human Services working with Spanish speakers.
Prerequisites: SPN 3043 for level UG with min. grade of D
Corequisites: SPN3013L

SPN 3300  Composition  3 credits
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

SPN 3314  Span Gram & Comp for Native Sp  3 credits
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.

SPN 3350  Spanish for Native Speakers  3 credits
Intensive Spanish grammar, syntax, and phonetics for native speakers who have had little or no formal training in the language. Permission of instructor required.

SPN 3400  Conversation & Composition I  3 credits
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.
Prerequisites: SPN 2201 for level UG with min. grade of D

SPN 3401  Conversation & Composition II  3 credits
Continuation of practice in understanding, speaking, reading, and writing. It includes reading texts, collateral reading, reports and discussions of written compositions.
Prerequisites: SPN 3400 for level UG with min. grade of D

SPN 3411  Advanced Oral Expression  3 credits
Oral skills, using literary text from Spain and Latin America as sources of discussions, oral reports, speeches, and conversation. It includes diction exercises, phonetic drills, and extensive recordings. Prerequisites: Instructor's Authorization.
Prerequisites: SPN 2201 for level UG with min. grade of C or SPN 2240 for level UG with min. grade of C

SPN 3440  Span for Global Econ Market I  3 credits
This course is an introduction to basic Spanish for persons with commercial interests; emphasis on conversational and business language with limited grammatical structure pertaining to reading and writing in business Spanish.
Corequisites: SPN3013L

SPN 3441  Span for Global Econ Market II  3 credits
This course is an introduction to basic Spanish for persons with commercial interests; emphasis on conversational and business language with limited grammatical structure pertaining to reading and writing in business Spanish.
Prerequisites: SPN 3040 for level UG with min. grade of D
Corequisites: SPN3013L

SPN 3500  Survey of Span Cult & Civl I  3 credits
Introduction to the people, institutions, and culture of Spain, from its origins to the aftermath of Spain's Golden Age and world influence. For third and fourth year Spanish majors, and non-majors. Lectures as well as assigned reports and papers are in Spanish. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPN 3501  Survey of Span Cult & Civl II  3 credits
The course is a continuation of SPN 3500. In this course emphasis lies on the ideological, political, economic, and cultural transformations begun with the Renaissance that form the background of contemporary culture.
Prerequisites: SPN 3500 for level UG with min. grade of D

SPN 3520  Latin Amer Cult & Civl I  3 credits
Introduction to the people, institutions, cultures, and civilizations of Latin America, from its pre-Columbian origins through the Spanish conquest and colonial period. For third and fourth year majors and non-majors. Lectures as well as assigned reports and papers are in Spanish. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPN 3521  Latin Amer Cult & Civl II  3 credits
The course is a continuation of SPN 3520 Latin American Cultures and Civilizations I. In this course the emphasis lies on the ideological, political, economic, and cultural transformations triggered by the modern European Enlightenment that set Latin America on a course of independence from Spain, nationalisms, and modernization. For third and fourth year majors and non-majors. Lectures as well as assigned reports and papers are in Spanish. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 3520 for level UG with min. grade of C

SPN 3710  The Spanish Language  3 credits
Applies the principles of linguistics to the design of professional and pedagogical material, and to the study and teaching of Spanish. Recommended for advanced majors, education majors, or teachers planning to teach Spanish. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 2240 for level UG with min. grade of D

SPN 4410  Advanced Conversation  3 credits
Intensive practice in the formulation and expression of ideas in standard Spanish is the focus of this course. The class is not open to native or near-native speakers of Spanish. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 3411 for level UG with min. grade of C

SPN 4470  Advanced Senior Study Abroad  1 to 6 credits
Foreign residence and advanced study, research, and/or work.
internship. Credits earned must be preapproved and will be evaluated on an individual case basis in order to validate transfer of credits. Permission of the Instructor's is required.

SPN 4537 Spec Top in Afro-Hispanic Cult 3 credits Closely examines various topics related to the culture of African Diaspora groups in the Hispanic World. Lectures are in Spanish; materials may be available in Spanish and English; reports and research papers are accepted in both languages. Open to fourth year majors, and non-majors. The course may be cross-referenced with African Diaspora Studies (see prefix in AFA), or with Latin American Studies (see prefix LAS). Prerequisite: Instructor's authorization for majors.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPN 4538 Cult Exp of Indig People in LA 3 credits Examines the various cultural expressions of indigenous peoples of Latin America. Topics include theater, literature, arts and social structures. Lectures are in Spanish; materials may be available in Spanish and English; assigned reports and research papers are accepted in both languages. Open to fourth year majors, and non-majors. This course may be cross-referenced. Prerequisite: Instructor's authorization for majors.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C

SPN 4910 Directed Independent Research 3 credits In this course research projects or certain aspects of research are carried out by one or more students under the supervision of an instructor. The class is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. The hours and levels may vary. Only for senior Spanish majors. Prerequisite: Instructor's Authorization.
Prerequisites: SPN 3300 for level UG with min. grade of C and SPN 3411 for level UG with min. grade of C and SPN 4537 for level UG with min. grade of C and SPN 4538 for level UG with min. grade of C

SPN 4920 Spanish Symposium 3 credits The course offers special sessions centering around a specific topic that are designed to enhance specific professional skills, including professional portfolio preparation. The topics may vary and are selected on the basis of what is new or currently relevant in the field. The hours and levels may vary. Only for senior Spanish majors. Prerequisite: Instructor's Authorization.

SPN 4940 Intern Practicum 3 credits Practicum 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 TheAmericas:Latino Culture&Soc 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 course 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.
Prerequisites: SPT 4812 for level UG with min. grade of D

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: SPN 1120 for level UG with min. grade of D and SPN 1121 for level UG with min. grade of D and SPN 2200 for level UG with min. grade of D and SPN 2201 for level UG with min. grade of D and SPN 2240 for level UG with min. grade of D and SPN 2241 for level UG with min. grade of D and SPN 3410 for level UG with...
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tr>
<td>SPT 4813</td>
<td>Simultaneous Translation</td>
<td>3 credits</td>
<td>Students are provided training in translation through oral and non-structured writing exercises. Prerequisite: Instructor's authorization, placement test. Prerequisites: SPN 1120 for level UG with min. grade of D and SPN 1121 for level UG with min. grade of D and SPN 2200 for level UG with min. grade of D and SPN 2201 for level UG with min. grade of D and SPN 2240 for level UG with min. grade of D and SPN 2241 for level UG with min. grade of D and SPN 3410 for level UG with min. grade of D</td>
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<tr>
<td>SPT 4814</td>
<td>Conference Interpreting</td>
<td>3 credits</td>
<td>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: SPN 1120 for level UG with min. grade of D and SPN 1121 for level UG with min. grade of D and SPN 2200 for level UG with min. grade of D and SPN 2201 for level UG with min. grade of D and SPN 2240 for level UG with min. grade of D and SPN 2241 for level UG with min. grade of D and SPN 3410 for level UG with min. grade of D</td>
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<tr>
<td>SPW 3030</td>
<td>Intro to Span &amp; Latin Amer Lit</td>
<td>3 credits</td>
<td>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. Prerequisites: SPN 2201 for level UG with min. grade of C</td>
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<tr>
<td>SPW 3100</td>
<td>Survey of Spanish Literature</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SPW 3130</td>
<td>Latin American Literature</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SPW 3320</td>
<td>Modern Hisp Theater Workshop I</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SPW 3423</td>
<td>Masterpieces of Span Gold Age</td>
<td>3 credits</td>
<td>Major works of Spain's Renaissance and Baroque period (Isabella &amp; 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</td>
</tr>
<tr>
<td>SPW 3480</td>
<td>Topics in 20th Cent Span Lit</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SPW 3782</td>
<td>Hispanic Women Writers</td>
<td>3 credits</td>
<td>Study of representative women writers from Spain, Latin America, and the U.S. 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</td>
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<tr>
<td>SPW 4271</td>
<td>20th Century Spanish Novel</td>
<td>3 credits</td>
<td>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.</td>
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<tr>
<td>SPW 4282</td>
<td>Contemporary Latin Am Fiction</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SPW 4304</td>
<td>Latin America Theater</td>
<td>3 credits</td>
<td>This course covers readings in the Latin American Theater.</td>
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<tr>
<td>SPW 4604</td>
<td>Cervantes' Don Quixote</td>
<td>3 credits</td>
<td>Study of Cervantes' masterpiece in the original, its importance as the first modern novel, and as a literary production inserted in Counter-Reformation, Baroque Spain. 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</td>
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<tr>
<td>SPW 4900</td>
<td>Directed Study</td>
<td>1 to 3 credits</td>
<td>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.</td>
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<tr>
<td>SPW 4930</td>
<td>Selected Topics</td>
<td>1 to 3 credits</td>
<td>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.</td>
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<tr>
<td>SSE 4153</td>
<td>Social Science Methods</td>
<td>3 credits</td>
<td>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</td>
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<tr>
<td>SSE 4313</td>
<td>Teach. Elem. School Soc. Stud.</td>
<td>3 credits</td>
<td>Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.</td>
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<tr>
<td>SSE 4333</td>
<td>Teaching Mid School S.S.</td>
<td>3 credits</td>
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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 Sec. 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 and EDF 3201 for level Ug with min. grade of C) or EDF4343 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 3 credits
Synthesis of teacher candidate's courses and preparation for the professional interview and application process.
Prerequisites: SSE 4941 for level UG with min. grade of S
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)
Prerequisites: SSE 4941 for level UG with min. grade of S
Corequisites: SSE4936

SSE 4941 Integr Field Exper:Soc Science 3 credits
Semester-long field experience, two days per week, to observe and demonstrate effective teaching practices. Students will partially assume the teacher role in selected schools or agencies.
Prerequisites: EDF 3201 for level Ug with min. grade of C and EDF 3201 for level Ug with min. grade of C and RED 4350 for level Ug with min. grade of C and SSE 4153 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 Educ 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 students 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 ACU 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 Gordon Rule for Math
Prerequisites: MAC 2311 for level Ug with min. grade of C

STA 2122 Social Science Statistics 3 credits
Intermediate course covering applied statistical analysis including analysis of variance, probability theory, correlation, non-parametric, and regression methods. *Meets Gordon Rule for Math
Prerequisites: PSY 2012 for level Ug with min. grade of C and STA 2023 for level Ug with min. grade of C

STA 3163 Applied Statistics 3 credits
An intermediate level survey of applied statistical methods with reference to practical problems in science and engineering. This course focuses on single and multi-sample inferential statistics, categorical data hypothesis testing, non-parametric methods, regression and correlation methods, experimental design and
applications of statistical software.
Prerequisites: STA 2023 for level UG with min. grade of C

STA 4234 Intro. to Regression Analysis  3 credits
Study of theory and applications of regression analysis. Topics include: general linear model, parameter estimation, residual analysis, polynomial and logarithmic regression, model identification, applications to biological and social sciences. Prerequisites: MAP 3162 for level UG with min. grade of C

STA 5355 Appl Mathematical Statistics  3 credits
Topics in applied mathematical statistics, including point and interval estimation, hypothesis testing, nonparametric methods, correlation, and design and analysis of experiments.

SYA 3010 Sociological Theory  3 credits
A survey sociological theory from its beginning in the 19th century to the contemporary period. Examines the various schools of thought and major theorists of each of those schools of thought. The works of selected theorists are examined in detail.

SYA 3120 Contemp Sociological Theory  3 credits
This course examines the major theoretical perspective in Sociology which approach the study of society from the perspective of the students.

SYA 3300 Social Research Methods  3 credits
Introduction to research methodologies in the social sciences providing the basic tools and skills necessary for social research. Special attention is paid to research design, data collection, data analysis, processing data analyses and writing reports. The link between Theory and Research is emphasized.

SYA 3310 Qualitative Research Methods  3 credits
An introduction to the techniques of planning and conducting qualitative research. Components of the course will include analyzing and interpreting qualitative data and field research. Prerequisites: SYG 2000 for level UG with min. grade of C

SYA 3910 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.

SYA 4503 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.

SYA 4654 Program Development  3 credits
Current issues in program evaluation including the qualitative and quantitative techniques used to design, monitor, and evaluate public 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 Socio-cultural 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 2251 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.

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.
SYP 3520 Sociology of Crime 3 credits
An introduction to the study of criminal behavior and crime in society, societies' reaction to crime and the criminal, and theories of causality and treatment.

SYP 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.

SYP 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

SYP 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

SYP 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 2091 for level UG with min. grade of B

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 2091 for level UG with min. grade of B

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

TAX 6205 Flow Through Entities 3 credits
Uses a "life cycle" approach to cover the taxation of Partnerships, LLCs, S corporations. Prerequisites: TAX 3012 or TAX 4001

TAX 6405 Estate & Gift Tax Issues 3 credits
Covers federal and state taxation of wealth and transfers including gift, estate and generation-skipping taxes.

Prerequisites: TAX 3012 or TAX 4001

TAX 6525 International Tax Issues 3 credits
Examines the structure and income measurement rules of the United States and various foreign tax systems. Topics covered include the different approaches to defining the tax base, deduction allocation rules, transfer pricing issues, foreign tax credits, and the implications of different organizational forms. Prerequisites: TAX 4001 or TAX 3012

TAX 6877 Special Topics in Taxation 3 credits
A comprehensive survey of selected contemporary issues and topics in taxation at the graduate level. Individual investigation and reporting emphasized in seminar fashion.

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 credit
Workshop to enhance specific professional skills.

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. ~ Course ended 201108
Prerequisites: THE 2020 and THE 3511 and THE 3512

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. Prerequisites: THE 2020 for level UG with min. grade of C

THE 3512 Theories:Theatre/PerformanceII 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. Prerequisites: THE 2020

THE 3540 Ecologies of Performance 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 3560 Ecologies of Performance 3 credits
This seminar course introduces students to the interdisciplinary of performance and the environment. We will investigate such
intersections as Ann Bogart's understanding of architecture in performance, Gertrude Stein's description of a play as a landscape, and Uta Hagan's emphasis on the actor's familiar place.

THE 4110 Thea Hist/Lit - Greeks to 1750 3 credits
Covers the development of theatre history and literature from its beginnings to 1750 (Part I of II). ~ Course ended 201108
Prerequisites: THE 2300 (May be taken concurrently)

THE 4111 Thea Hist/Lit- 1750 to present 3 credits
Surveys theatre history and literature from 1750 to the present (Part II of 2) ~ Course ended 201108
Prerequisites: THE 4110

THE 4181 Transgression & Resistance 3 credits
Transgressive acts of protest have a substantial presence in the history of theatre. From the common trashimg found in Fifth Century Greek Old Comedy to the sacreligious jabbing of the Feast of Fools celebrated in the Middle Ages, to street performance of radical acts performed in protest of war or globalism, theatre practitioners and activists have used spectacle and theatricality to interrogate positions of power.
Prerequisites: THE 2020 for level UG with min. grade of C and THE 3511 for level UG with min. grade of C and THE 3512 for level UG with min. grade of C

THE 4330 Shakespeare for the Theatre 3 credits
A close study of selected plays with special emphasis on their performance values. Upper Division students. ~ Course ended 201108

THE 4905 Directed Study 1 to 4 credits
Independent, directed study in various areas of theater. Permission of instructor required.

THE 4930 Special Topics in Theatre 1 to 3 credits
Lecture, seminar, or studio sessions covering selected topics of interest in theater. May be repeated with a change of content for up to 9 hours. Permission of instructor required.

THE 4945 Summer Repertory Theatre 3 credits
Practical Experience in repertory theatre with direct skills application in all areas of theater production. 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 the 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.

TPA 2000 Creative Design for Theatre 3 credits
Introduces the fundamental aspects of design for theatre projects. ~ Course ended 201108

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.

TPP 2100 Acting I 3 credits
An introduction to the discipline and creative process of acting with emphasis on formal and improvisational techniques for developing vocal, physical, and analytical skills.

TPP 2111 Acting II 3 credits
Scene study and basic characterization.
Prerequisites: TPP 2100

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. Course ended 201108

TPP 2190 Rehearsal and Performance I 1 credit
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. ~ Course ended 201108
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. ~ Course ended 201108
Prerequisites: TPP 2111 for level UG with min. grade of C
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**Course Descriptions**

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. ~ Course ended 201108
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. ~ Course ended 201108
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. ~ Course ended 201105
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. ~ Course ended 201108
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. ~ Course ended 201108

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

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 enabler 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 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.
Prerequisites: TSL 4520 for level UG with min. grade of C

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 adoptions to meet the language needs of diverse students in the classroom.
Prerequisites: (EDF 3201 for level UG with min. grade of C and EDG 3201 for level UG with min. grade of C) or (EDF 3251 for level UG with min. grade of C and EDG 4343 for level UG with min. grade of C)

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 credit
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 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 philosophies, methods, formats, tools, and practices of land use planning in the

United States. The course also examines existing land use planning methods and policies as utilized at the local, regional, state, and federal levels of government.

URP 5873 Site Design/Land Use Planning 3 credits
The course focuses on the design elements of land use development, and the evaluation of alternative site designs. It provides an introduction to the relationship between land use planning and project design.

URP 6421 Environmental Planning 3 credits
This course will involve team projects in which students work with local, regional, and state agencies on the evaluation and application of environmental planning practices; on guest lectures examining differing perspectives; on readings discussions; and on field trips to investigate and evaluate the results of different environmental planning strategies.

VIC 3002 Media Design 3 credits
An introduction to visual communication as it relates to content in print, video and online media. To include design and layout, photography principles and editing, informational graphics processes, and hands-on work with new media technology.

WOH 1023 World Civilization 1500-1815 3 credits
The social, cultural, intellectual, political, and economic aspects of world civilizations from 1500 to 1815. Emphasis is given to understanding the impact of cross-cultural exchanges and impacts on global history. Must meet state requirements for writing-intensive courses.

WOH 1030 World Civilization since 1815 3 credits
The social, cultural, intellectual, political and economic aspects of world civilizations from 1815 to present. Emphasis is given to understanding the impact of cross-cultural exchanges and impacts on global history. Must meet state requirements for writing-intensive courses.

WOH 3044 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.

WOH 3221 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.

WOH 3231 Genocide in World History 3 credits
“Genocide” is often used imprecisely in popular and political discourse. In this course we examine the differences between the terms genocide, "democide," ethnocide, and other forms of mass violence. We will also gain greater insight into the interaction of psychological, sociological, cultural, and political roots of genocide.

WOH 3234 Atlantic World 1776-Present 3 credits
History of the Atlantic World from the Age of Revolution to the Present. Explores interactions in political, economic and cultural ideas and actions between Europe, the Americas, and Africa in comparative context.

WOH 3293 Islam in World History 3 credits
History of Islamic civilizations. Themes include the origins and beliefs of Islam; the relation of religious belief to political practice; Islamic civilization in historical context, and in relation to other
traditions; and the diversity within Islam.

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

WOH 6939 Seminar in World History 3 credits
Readings seminar in selected topics and problems in World history.

WST 3015 Intro to Women's 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 the recent years. 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.

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 3713C Vertebrate Form and Function 3 credits
Major anatomical and physiological adaptations of the vertebrates are examined in evolutionary and ecological contexts using integrated lecture and laboratory exercises. The course will include the use of dissection and physiological laboratory techniques to study vertebrate form and function.
Prerequisites: ISC 1004C for level UG with min. grade of C or 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 3733C Human Anatomy 3 credits
Basic and functional human anatomical systems are studied with an emphasis on gross anatomy and form-function relationships of structures. Topics will include the integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, and reproductive systems.
Prerequisites: (BSC 1010C or (BSC 1010 and BSC 1010L)) and BSC 1011 and BSC 1011L and (CHM 1045C or (CHM 1045 and CHM 1045L)) and (CHM 1046C or (CHM 1046 and CHM 1046L))

ZOO 4272C 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.
Prerequisites: ZOO 3713C for level UG with min. grade of C

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 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 (BSC 1011C for level UG with min. grade of C or (BSC 1011 and BSC 1011L))
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