



Course Listing

for

2019 – 2020

**Chicago State University
Academic Catalogs**

Contents

Air and Space (A S).....	5
Accounting (ACCT).....	6
African Languages (AFL).....	10
Adult Integrated Learning (AIL).....	15
Anthropology (ANTH).....	15
Arabic (ARAB).....	19
Art (ART).....	20
Business Education (B E).....	34
Bilingual Education (BIL).....	40
Biology (BIOL).....	56
Business Laboratory Program (BLP).....	71
Botany (BOT).....	71
College of Arts and Sciences (CAS).....	72
Continuing Education (CE).....	73
Conflict Resolution Mediation (CFR).....	76
Chemistry (CHEM).....	76
Chinese (CHIN).....	89
Criminal Justice (CJ).....	93
Comm, Media Arts, Theatre (CMAT).....	117
Counseling (COUN).....	134
Computer Science (CPTR).....	140
Early Childhood Elem Ed (ECEE).....	156
Economics (ECON).....	179
Early Chldhd & Spec Ed (ECSE).....	186
Education (ED).....	190
Doctorate in Ed Ldrshp (EDDL).....	203
Ed Leadshp Curr & Foundations (ELCF).....	207
Elementary Education (ELED).....	222
English (ENG).....	231
Engineering (ENGR).....	259
Family & Consumer Sci (FCS).....	261
Finance (FIN).....	261
Foreign Lang & Literatures (FL&L).....	265
French (FREN).....	270
Freshman Seminar (FRSE).....	276
Geography (GEOG).....	278
German (GERM).....	293

General Studies (GSP).....	293
Health & Safety (H S).....	294
Health Sciences (H SC)	302
Health Information Adm (HIA)	309
History (HIST).....	313
Honor (HON).....	338
Health Physical Educ & Rec (HPR)	342
International Studies (I S)	343
Industrial Technology (I T).....	343
Individualized Curriculum Prog (ICP).....	359
Practical Trng for Intl Studs (ICPT)	360
Information Systems (INSY)	361
Italian (ITAL)	368
Japanese (JPN).....	369
Kiswahili (KISW)	370
Liberal Studies (LBST).....	371
Library Science (LIB).....	371
Library Infor & Media Studies (LIMS)	372
Library Information Science (LIS)	373
Mathematics (MATH)	385
Management (MGMT)	403
Military Science (MI S)	409
Middle School Education (MIDS).....	411
Marketing (MKTG)	416
Music (MUS)	421
Music Applied (MUSA)	426
Music Ensemble (MUSE).....	435
Music Major (MUSM).....	439
Nursing (NURS)	446
Occupational Therapy (O T).....	457
Physical Education (P E)	465
Physical Therapy (P T)	483
Physical Science (PH S)	484
Pharmacy (PHAR).....	486
Philosophy (PHIL).....	513
Physics (PHYS)	520
Political Science (POL)	528
Pre Pharmacy (PPHR)	537

Physiology (PSLY)	538
Psychology (PSYC)	541
Public Health (PUBH)	559
Quantitative Bus Anal (QBA).....	565
Reading (READ)	567
Recreation (REC).....	577
Russian (RUSS)	586
Study Abroad (S AB).....	587
Special Education (S ED)	588
Social Work (S WK).....	598
Security and Intelligence Stdy (SIS).....	607
Sociology (SOC).....	609
Spanish (SPAN).....	618
Technology and Education (T&ED).....	631
Tech, Performance and Studies (TPS)	642
University of Chicago (UC).....	650
University Without Walls (UWW)	651
UWW 3190.....	658
Women's Studies (WS)	658
Zoology (ZOOL)	659

Air and Space (A S)

Course	Course Description	Credit Hrs.	Contact Hrs.
A S 3010	AIRFORCE LEADERSHIP STUDIES I (0) See Illinois Institute of Technology catalog.	3	3
A S 3020	AIRFORCE LEADERSHIP STUDIES II (0) See Illinois Institute of Technology catalog.	3	3
A S 5010	NATION SECURITY AFFAIRS (0) See Illinois Institute of Technology catalog.	3	3
A S 5020	PREPARATION FOR ACTIVE DUTY (0) See Illinois Institute of Technology catalog.	3	3

Accounting (ACCT)

Course	Course Description	Credit Hrs.	Contact Hrs.
ACCT 1290	<p>LEGAL AND ETHICAL ENVIRONMENT OF BUSINESS (3)</p> <p>Basic environment of business including legal institutions, contracts, negotiable instruments, etc. Emphasis on legal, social and political issues facing urban business today such as antitrust, environmental control, and consumer protection. Includes material on ethics and values. Students will be involved with the analysis of cases. IAI: BUS 913</p>	3	3
ACCT 2110	<p>INTRODUCTION TO FINANCIAL ACCOUNTING LECTURE AND LABORATORY /4 (3)</p> <p>Concepts and techniques of accounting for sole proprietorships. Accounting for assets, liabilities, and ownership equities; special journals and subsidiary and control accounts; inventory methods and evaluation; fixed assets and depreciation; payroll; preparation of worksheets and financial statements.</p> <p>Prerequisite: Successful completion of university qualifying examination in mathematics or course equivalency.</p>	3	4
ACCT 2111	<p>INTRODUCTION TO MANAGERIAL ACCOUNTING LECTURE AND LABORATORY /4 (3)</p> <p>Concepts and techniques of accounting for partnerships, corporations, and management in planning and controlling business activities. Areas covered include the presentation of financial data, cash flows, financial statement analysis, product costing methods, breakeven analysis, and make or buy decisions.</p> <p>Prerequisite: ACCT 2110/110.</p>	3	4
ACCT 2120	<p>COST ACCOUNTING (3)</p> <p>Accounting principles applied to manufacturing operations. Development of product costs under job order and process costing systems. Topics discussed also include joint product costs, overhead allocation, standard costing, cost-volume-profit analysis, budgeting, and analysis of variances.</p> <p>Prerequisite: ACCT 2111/111.</p>	3	3
ACCT 2291	<p>BUSINESS LAW I (3)</p> <p>An introduction to the American legal system followed by study of the following substantive areas of law: contracts, agency, negotiable instruments, and sales. IAI: BUS 912 Prerequisite: Junior standing.</p>	3	3

ACCT 3213	INTERMEDIATE ACCOUNTING I (3) Accounting principles applied to asset, liability, revenue, and expense items appearing on financial statements. Inventory analysis, depreciation and bad debts analysis, capital and revenue expenditures, selected opinions of the Accounting Principles Board and Financial Accounting Standards Board. Prerequisite: ACCT 2111/111 and admission to the College of Business or consent of the	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	department.		
ACCT 3214	INTERMEDIATE ACCOUNTING II (3) Accounting principles applied to capital items appearing on financial statements. Statement of changes in financial position and cash flow statement. Long term debt, accounting for pensions, and leases are covered extensively. Prerequisite: ACCT 3213/213 and junior standing.	3	3
ACCT 3292	BUSINESS LAW II (3) The study of law relating to real and personal property, bailments, partnerships, corporations, insurance, securities, estates, and wills. Prerequisite: ACCT 2291/291.	3	3
ACCT 3293	FEDERAL INCOME TAX (3) Theory and broad outlines of federal income taxation. Introduction to preparation of income tax returns, tax planning, and problems of compliance with the IRS code by individuals. Prerequisite: ACCT 2111/111, 2291/291, and junior standing.	3	3
ACCT 3314	ACCOUNTING INFORMATION SYSTEMS (3) This course is designed for managerial accountants and auditors that must use accounting information systems and applications. Internal controls, systems concepts and computer applications are included in the course. Students will gain practical hands-on computer experience. Prerequisite: INSY 1370/137, ACCT 2120/212, ACCT 3214/214 and junior standing.	3	3
ACCT 3319	ACCOUNTING FOR NONPROFIT ORGANIZATIONS (3) Accounting, concepts, methods, and informational needs for planning and control in government, health, education, and other nonprofit organizations. Prerequisite: ACCT 3214/214 or consent of the department.	3	3

ACCT 4315	ADVANCED ACCOUNTING (3) Intensive study of partnerships, consolidations, mergers, stock and asset acquisitions, and not-for-profit entities. Lectures, discussions, and readings are supplemented with problem assignments and spreadsheet applications. Prerequisite: ACCT 3214/214.	3	3
ACCT 4316	ACCOUNTING RESEARCH AND ANALYSIS (3) This course is designed to build upon previous research assignments in all upper level accounting courses and provide a capstone experience for accounting majors by challenging them to identify accounting issues, locate and research appropriate accounting concepts, standards, statements, pronouncements or tax authorities, and then	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	provide a thorough analysis for determination of an appropriate conclusion for the decision-making process. Communication of such research and analysis will require students to prepare organized/structured written papers utilizing appropriate document format and then present such findings to various audiences. Areas of research will include, but will not be limited to, Statement of Financial Accounting Concepts (SFAC), Financial Accounting Standards (FAS), Statements on Auditing Standards (SAS), the Internal Revenue Code, and Treasury regulations. Prerequisite(s): Admitted major or minor; ACCT 4315/315 or consent of department.		
ACCT 4317	AUDITING (3) The principles, concepts, procedures, and responsibilities of an audit engagement, including consideration of internal control structure, application, and procedures for obtaining audit evidence and preparation of audit reports. Writing emphasis course. Prerequisite: Admitted major or minor. ACCT 4315/315 or consent of the department.	3	3
ACCT 4318	ACCOUNTING THEORY AND ORGANIZATION CONTROL (3) The accountant as the chief control member of the management team. Advanced problems and readings in cost control, capital budgeting, information for decision making, organization theory, information systems, and human behavior. Prerequisite: ACCT 2120/212	3	3

ACCT 4325	INTERNAL AUDITING (3) Concepts and techniques through which an organization's own employees ascertain for the management whether (1) established management controls are adequate and are effectively maintained; (2) records and financial, accounting, and other reports reflect actual operations and results accurately and promptly; and (3) each division, department, or other unit is carrying out the plans, policies, and procedures for which it is responsible. Prerequisite: ACCT 4317/ 317 or consent of the department.	3	3
ACCT 4394	ADVANCED FEDERAL INCOME TAX (3) Federal income tax implications for partnerships, corporations, estates and trusts, gift tax, tax payments, assessment, collection, and refunds. Research project assignment. Prerequisite: ACCT 3293/293.	3	3
ACCT 4900	INDEPENDENT STUDY AND SPECIAL PROBLEMS (3) Designed for independent research and study of special accounting problems. A comprehensive research paper is required. Maximum of two enrollments, not in the same term, for a total of six credit hours.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Junior standing.		
ACCT 5001	FUNDAMENTALS OF ACCOUNTING (3) This course provides the student with an understanding of basic accounting fundamentals, concepts and practices as they relate to a corporation. Accounting for assets, liabilities, and stockholders equity; understanding financial ratios and the analysis of financial statements in order to interpret and predict a company's financial performance. Additionally, the course explores cost concepts and use of costs in the managerial decision-making process and the integration of financial and managerial operations of the enterprise.	3	3
ACCT 5100	FINANCIAL STATEMENT ANALYSIS (3) The course deploys a comprehensive and logical six-step fundamental analysis process for analyzing and interpreting financial statements and valuing firms. The six-steps consist of economic analysis of the industry, strategic analysis of the firm, accounting quality analysis, profitability and risk ratio analysis, forecasting, and valuation. Prerequisite(s): Completion of all Foundation Courses.	3	3

African Languages (AF L)

Course	Course Description	Credit Hrs.	Contact Hrs.
AF L 1010	<p>AFRICAN LANGUAGES AND CULTURE I (3)</p> <p>Studies in African language/culture. Everyday conversation in an African language as well as the study of the culture and the arts of the specific country. May be taken twice for credit if languages are different.</p>	3	3
AF L 1020	<p>AFRICAN LANGUAGES AND CULTURE II (3)</p> <p>Continuation of AF L 1010/ 101.</p> <p>Prerequisite: AF L 1010/101.</p>	3	3
AF L 1100	<p>AFRICAN CULTURAL INFLUENCES (3)</p> <p>Study of tropical African culture and customs as revealed in literature, art, music, and cinema. IAI: HF 904N</p>	3	3

African-American Studies (AFAM)

Course	Course Description	Credit Hrs.	Contact Hrs.
AFAM 1000	<p>INTRODUCTION TO AFRICAN AMERICAN STUDIES (3)</p> <p>Explores the history and development of African American Studies as a discipline.</p> <p>Prerequisite: ENG 1270/127 or ENG 1230/123.</p>	3	3
AFAM 1020	<p>CULTURAL DIVERSITY AND THE AMERICAN EXPERIENCE (3)</p> <p>Provides students with a knowledge of the role cultural pluralism has played in defining the American ethos using a team taught, interdisciplinary, cross-cultural framework.</p>	3	3
AFAM 1099	<p>FRESHMAN SEMINAR IN AFRICAN AMERICAN STUDIES (1)</p> <p>Introduction to the expectations of the university. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life.</p> <p>Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.</p>	1	1
AFAM 2000	<p>SPECIAL TOPICS IN AFRICAN AMERICAN STUDIES (3)</p> <p>Focused study of a selected topic in African American studies. May be repeated under different topics for up to 6 credit hours.</p> <p>Prerequisite: ENG 1270/127 or ENG 1230/123 or consent of instructor.</p>	3	3
AFAM 2010	<p>AFRICAN CULTURE, SOCIETY, AND POLITICS (3)</p> <p>African philosophical thought, African political developments, practice of socialism and Marxism, African political economy, emphasis on wealth, geography, political diversity, international relations, concepts of cosmology and axiology.</p> <p>Prerequisite: ENG 1270/127 or ENG 1230/123.</p>	3	3
AFAM 2020	<p>African and African American Leadership (3)</p> <p>Review and compare the readings in the works of such African and African American thinkers as Kwame Nkrumah, Frantz Fanon, Frances Cress Welsing, Martin Luther King, Jr., Leopold Senghor, Malcolm X, Cheik Anta Diop, and W.E.B. DuBois.</p> <p>Prerequisite: ENG 1270/127 or ENG 1230/123.</p>	3	3

AFAM 2030	BLACK IMAGES IN FILM (3) Explores the historical, psychological, political, cultural, and sociological effects that media-created Black images have had on people of African ancestry and others. Provides students with a framework to begin to understand and define a stereotype; recognize common stereotypes and stereotypical themes in film, television and print media;	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	illustrate damaging effects perpetuating stereotypes through behavior; and finally, to deconstruct racial stereotypes and reconstruct identity.		
AFAM 2040	TANNING OF AMERICA: THE INFLUENCE OF BLACK CREATIVE PRODUCTION (3) Throughout American history, Americans of African descent have fought to retain elements of African culture: practices, rituals, food, music, dance, ideology. During American slavery, cultural practices were forbidden and punishable by law. Despite the attempt to eliminate all cultural retention, Africanisms remained and existed as subversive counter-cultural movements. This course explores the historical patterns of the adoption of African American creative production from the margins to the center of American society.	3	3
AFAM 2050	AFRICAN AMERICANS IN THE 21ST CENTURY (3) Introduction to sociopolitical, sociocultural and socioeconomic issues confronting African Americans in the 21st century. Students will explore the cogency of Postracialism; the implications for economic development posed by information technology and a service based economy; electoral politics and the politicization of social media and other contemporary issues.	3	3
AFAM 2100	THE WIRE: INTERSECTIONS OF URBAN INEQUALITY (3) This course examines topics related to urban inequality, the prison industrial complex and poverty. The television series, The Wire, provides an excellent opportunity to analyze our understanding of urban inequality, including: crime, incarceration, work and labor markets, the unregulated economy, urban politics and education. The content of the course is comprised of academic research that will be examined in conjunction with the series. Prerequisites: ENG 1270/127 or ENG 1230/123.	3	3
AFAM 2450	YORUBA RELIGION AND CULTURE (3) Yoruba creation stories, metaphysical concepts, religious rites and practices in their traditional and contemporary context as found throughout the African diaspora. Field trips required.	3	3

AFAM 2900	BLACK WOMEN IN AFRICA AND THE DIASPORA (3) Explores the similarities and differences in specific cultural environments and issues involving family, work, sexuality, activism, literary productivity and male-female relationships. Prerequisites: ENG 1270/127 or ENG 1230/123.	3	3
AFAM 3000	African American Independent (3) Staff-directed study in special topics. Prerequisite: ENG 1270/127 or ENG 1230/123 or consent of instructor.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
AFAM 3010	AFRICAN-AMERICAN STUDIES RESEARCH (3) Using the internet, the library, and other resources to locate information about African Americans. Introduction to quantitative data analysis using SPSS or excel. Prerequisites: ENG 1270/127 or ENG 1230/123 and Junior or Senior standing; or consent of department.	3	3
AFAM 3020	THE GREAT DEBATE: MALCOLM X AND DR. MARTIN L. KING (3) An in depth analysis of the lives of Martin Luther King Jr. and Malcolm X. Their respective philosophy and activism will thoroughly be examined with a particular emphasis on the willingness of both men to change or alter their respective worldviews.	3	3
AFAM 3030	PAN-AFRICANISM AND DUBOIS (3) Explores the contemporary usage of Pan-Africanism as well as the history and ideology of Pan-Africanism through the ideas of W.E.B. DuBois, George Padmore, Kwame Nkrumah, and the Negritude movement. Prerequisites: AFAM 1000/100 or AFAM 1020/102; ENG 1270/127 or ENG 1230/123.	3	3
AFAM 3040	AFRICAN AMERICAN PROTEST MOVEMENTS (3) An exploration of Black protest movements in America. Students will examine freedom struggles from the 19th century Convention movement to the Post-Civil Rights era. Prerequisites: AFAM 1000/100 or AFAM 1020/102; ENG 1270/127 or ENG 1230/123 or consent of department.	3	3

AFAM 3500	<p>SEMINAR IN AFRICAN AMERICAN STUDIES (3)</p> <p>An in-depth critical examination of scholarly works in the field of African American studies by writers such as DuBois, Cooper, Garvey, Baraka, Washington, Woodson, and Diop. May be taken three times for credit if the topics are different.</p> <p>Prerequisite: ENG 1270/127 or ENG 1230/123.</p>	3	3
AFAM 3510	<p>BLACK CHICAGO TO 1960 (3)</p> <p>Intellectual and interdisciplinary study of Bronzeville (historical Black Chicago) from founding to 1960 through the works of sociologists, historians, visual artists and writers.</p> <p>Prerequisites: ENG 1270/127 or ENG 1230/123.</p>	3	3
AFAM 3520	<p>BLACK CHICAGO SINCE 1960 (3)</p> <p>Intellectual and interdisciplinary study of Bronzeville (historical Black Chicago) from 1960 to present through the works of sociologists, historians, visual artist and writers.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: ENG 1270/127 or ENG 1230/123.		
AFAM 4000	<p>Senior Capstone Tutorial (3)</p> <p>Design, implement, and complete a field project. Demonstrate the ability to apply the knowledge and critical thinking skills acquired during the undergraduate education. This course will fulfill the senior thesis requirement.</p> <p>Prerequisites: African American studies major; senior standing.</p>	3	3

Adult Integrated Learning (AIL)

Course	Course Description	Credit Hrs.	Contact Hrs.
AIL 1500	ADULT INTEGRATED LEARNING ORIENTATION (3) An introductory course designed to connect nontraditional degree students to the Adult Integrated Learning Program and to the University. Course outlines and explores what it means to be an adult learner and will investigate various strategies to encourage persistence and program completion.	3	3
AIL 2500	CREATING AIL PRIOR LEARNING ASSESSMENT PORTFOLIO (3) This course is designed to assist AIL students in the preparation of a portfolio for the assessment of prior learning. Methods of developing a coherent persuasive presentation of college-level learning in a Prior Learning Assessment (PLA) portfolio. Through intensive writing and research activities, students will be able to prepare a PLA portfolio that can be assessed by faculty and/or content experts for possible university/college credit.	3	3
AIL 4500	AIL CAPSTONE SEMINAR (3) Final course of study taken towards the end of the degree program. Focus is on communication, research, assessment and evaluation. The purpose of the course is to integrate the skills achieved to earn a degree, professional competencies needed in the workforce, and action planning for life-long learning. Prerequisite(s): Senior Standing	3	3

Anthropology (ANTH)

Course	Course Description	Credit Hrs.	Contact Hrs.
ANTH 1010	INTRODUCTION TO CULTURAL ANTHROPOLOGY (3) Culture, society, language, and their influence on personality; emphasis on non-Western societies. (A writing emphasis and enrichment core course.) IAI: S1 901N	3	3
ANTH 1020	INTRODUCTION TO PHYSICAL ANTHROPOLOGY AND ARCHAEOLOGY (3) The biological and cultural heritage of the human species in worldwide evolutionary context. Methods and theories used to learn about and understand human prehistory.	3	3
ANTH 2010	GLOBAL CULTURES (3) Survey of global cultures in selected areas; emphasis on non-Western cultures.	3	3

ANTH 2100	INDIANS OF ANGLO-AMERICA (3) Interrelations of Indians of Anglo-America. Pre- and post-contact cultures. Cultural effects of contact and conquest. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 2110	INDIANS OF LATIN AMERICA (3) Latin American Indians, pre-Hispanic cultures. Cultural effects of contact and conquest. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 2120	CULTURES OF AFRICA (3) Overview of African cultures. Regional patterns of behavior and social structures. Recent cultural change. Writing emphasis course. (This course satisfies the elective course requirements for the African American Studies major or minor.)	3	3
ANTH 2130	CULTURES OF THE MIDDLE EAST AND SOUTH ASIA (3) Traditional cultures of the Middle East and South Asia, including the spread of Islam and the impact of the modern world. (Enrichment core course.)	3	3
ANTH 2140	AFRICA AND AFRO-AMERICA (3) Indigenous, tribal, and state cultures of Africa. Relevance to historical and cultural patterns of Afro-America. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 2150	TRADITIONAL AND FOLK RELIGIONS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Theories and concepts of religious behavior, development of traditional folk religions. Prerequisite: ANTH 1010/101 or equivalent.		
ANTH 2160	CULTURE CHANGE (3) Culture viewed as dynamic processes of origination, diffusion, and acculturation. Theories of change: evolution, revolution, revitalization. The individual and culture change. IAI: S1904D Prerequisite: ANTH 1010/101 or equivalent.	3	3

ANTH 2210	PHYSICAL ANTHROPOLOGY (3) Evolution of man and primates from the viewpoints of population genetics and the fossil record. Evolutionary growth of man's capacity for culture. Additional course fee. IAI: S1902 Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 2220	ORIGINS OF CIVILIZATIONS (3) Origins and development of the great civilizations of the ancient world as revealed by archaeology. Credit not given for both ANTH 2220/265 and HIST 2650/265. IAI: S1 903	3	3
ANTH 2990	SPECIAL TOPICS IN ANTHROPOLOGY (3) In-depth consideration of a contemporary issue in anthropology: ethnic conflicts, vanishing languages and cultures, global development, the urban cultural milieu, etc. May be repeated twice under different topics for a total of 6 credit hours. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 3010	RESEARCH METHODS IN ANTHROPOLOGY (3) Methods of scientific anthropological study. Examination and evaluation of current research. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 3020	ADVANCED ETHNOLOGICAL THEORY (3) Comparative analysis of primitive, folk, and urban cultures in selected areas. Prerequisite: ANTH 1010/101 and 2010/203.	3	3
ANTH 3130	ETHNIC DYNAMICS (3) Comparative analysis of traditional, folk, and urban cultures in selected areas.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ANTH 1010/101.		
ANTH 3140	ANALYSIS OF CULTURAL PATTERNS (3) Various cultural patterns. Development of understanding of contemporary cultural conflicts, urbanization and acculturation. Prerequisite: ANTH 1010/101 equivalent.	3	3

ANTH 3150	URBAN CULTURE (3) The city as a complex of interrelated institutions set up to serve the needs of a culturally heterogeneous population. The city as a focal point of acculturation and cultural change. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 3180	MEXICAN AND PUERTO RICAN CULTURES (3) Introduction to cultural development, pre-Hispanic to present. Interactions of urban Latin communities with Anglo American culture. Prerequisite: Consent of the department.	3	3
ANTH 4120	CULTURE AND PERSONALITY (3) Personality in different cultures. Change from infancy through old age. Prerequisite: ANTH 1010/101 or equivalent.	3	3
ANTH 4160	LATINOS IN THE UNITED STATES (3) The courses traces the increasing impact of Hispanic, Afro-Hispanic, and Indio-Hispanic groups in what is now the United States from colonial times to the present. Prerequisite: ANTH 1010/101 or consent of the instructor.	3	3
ANTH 4230	AGING ACROSS CULTURES (3) The experience of aging in cross-cultural contexts: age sets, the roles of elders, care of the aged, gender and aging, and age-related mental changes. Stresses the role of culture in shaping attitudes toward aging and the elderly. Prerequisite: ANTH 1010/101 or consent of department.	3	3
ANTH 4250	MEDICAL ANTHROPOLOGY (3) Explores the relationships between cultural factors and illness and examines the crosscultural similarities and differences in the ways in which people cope with health problems.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ANTH 1010/101 or 1020/102 or consent of department.		

ANTH 4900	INDEPENDENT STUDY IN ANTHROPOLOGY (3) Individually supervised study in selected topics in anthropology. May be repeated for a maximum of six credit hours under different topics. Prerequisite: Consent of the department.	1	1
ANTH 5120	CULTURE AND PERSONALITY (3) Personality in different cultures. Change from infancy through old age. Prerequisite: ANTH 1010/101 or equivalent	3	3
ANTH 5160	LATINOS IN THE UNITED STATES (3) The courses traces the increasing impact of Hispanic, Afro-Hispanic, and Indio-Hispanic groups in what is now the United States from colonial times to the present. Prerequisite: ANTH 1010/101 or consent of the instructor.	3	3
ANTH 5230	AGING ACROSS CULTURES (3) The experience of aging in cross-cultural contexts: age sets, the roles of elders, care of the aged, gender and aging, and age-related mental changes. Stresses the role of culture in shaping attitudes toward aging and the elderly. Prerequisite: ANTH 1010/101 or consent of department.	3	3
ANTH 5250	MEDICAL ANTHROPOLOGY (3) Explores the relationships between cultural factors and illness and examines the crosscultural similarities and differences in the ways in which people cope with health problems. Prerequisite: ANTH 1010/101 or 1020/102 or consent of the department.	3	3
ANTH 5900	INDEPENDENT STUDY IN ANTHROPOLOGY (1-3) Individually supervised study in selected topics in anthropology. May be repeated for a maximum of six credit hours under different topics. Prerequisite: Consent of the department.	1	1

Arabic (ARAB)

Course	Course Description	Credit Hrs.	Contact Hrs.
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ARAB 1010	ELEMENTARY ARABIC I /4/ (3) Oral-aural mastery of basic grammar and vocabulary. Reading simple Arabic texts. Additional course fee.	3	4
ARAB 1020	ELEMENTARY ARABIC II /4/ (3) Continuation of ARAB 1010/101. Additional course fee. Prerequisite: ARAB 1010/101 or consent of department.	3	4
ARAB 1030	ELEMENTARY ARABIC III LECTURE AND LABORATORY/4/ (3) Continuation of Arabic 1020/102. Optional bridge course for students interested in continuing with Arabic at more advanced levels and who are not able to satisfy intermediate level proficiency. Prerequisites: Arabic 1020/102 or consent of department.	3	4
ARAB 2010	INTERMEDIATE ARABIC I LECTURE AND LABORATORY/4/ (3) Intensive oral drill and recitation in Arabic grammar. Intermediate practice in reading and writing. Prerequisites: Arabic 1020/102 or consent of department	3	4
ARAB 2020	INTERMEDIATE ARABIC II LECTURE AND LABORATORY/4/ (3) Continuation of Arabic 2010/151. Prerequisites: Arabic 2010/151 or consent of the department.	3	4
ARAB 2120	ARABIC CULTURES (3) Study of Arabic cultures and customs as revealed in readings, art, music, and film. Open to all students.	3	3

Art (ART)

Course	Course Description	Credit Hrs.	Contact Hrs.
ART 1092	ILLINOIS ART TEACHER CERTIFICATION REVIEW (1) Review of art education theory and practice to prepare for State Certification Teacher Examination. Credit does not count toward graduation. Must be completed before student teaching. Prerequisite (or Co-requisite): ART 4662/362 or equivalent; ELCF 4500/353; consent of the department.	1	1

ART 1100	INTRODUCTION TO THE VISUAL ARTS (3) Appreciation and analysis of art forms stressing terminology, technical procedures, composition, materials, and cultural and social influences. IAI: F2 900	3	3
ART 1101	SEMINAR I (1) Introduction to basic skills essential to successful performance in art and design. Prerequisites: Art and Design Majors only.	1	1
ART 1104	WRITING ABOUT ART SEMINAR (1) Introduction to the analysis and writing about art and developing research papers. Emphasis on writing. Prerequisite(s): Art major; ENG 1230/123 or 1270/127.	1	1
ART 1105	ART CAREERS SEMINAR (1) Preparatory introductory seminar exposing art students to related career skills, necessary documents and experiences expected for success as a professional. Prerequisite(s): Art major or consent of department.	1	1
ART 1200	DRAWING I LECTURE AND STUDIO/6 (3) Studio activities which define drawing, stressing composition, three-dimensional illusions, understanding and appreciation of two-dimensional surfaces, exploration of media, and observational and imaginative drawing. Additional course fee. IAI: ART 904	3	6
ART 1280	2-D DESIGN LECTURE AND STUDIO /6 (3) An introduction to the principles of design through work in two-dimensional design problems, stressing the understanding and interrelationship of composition and media. Additional course fee. IAI: ART 907	3	6
ART 1290	3D DESIGN LECTURE AND STUDIO/6 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Development of design skills through studio work primarily in three-dimensional design problems. Credit not given for both ART 1290 and ART 2720. Additional course fee. IAI: ART 908. Prerequisite(s): Art Majors, Art Minors or consent of department.		

ART 2030	BODY NOTIONS: FEMINIST APPROACHES TO MOVEMENT AND THE BODY (3) Addresses our relationships to body and movement via the exploration of feminist and queer theory. Tactics of theater and performance utilized by artists and activists of color will connect to class-led activities around current events and artistic interests. Prerequisites: ENG 1270/127 or 1230/123.	3	3
ART 2040	HIP HOP AESTHETICS: ART FOR SOCIAL CHANGE (3) Through the lens of hip hop and popular culture, students approach media, art making, and society from cross-national perspectives. Translating cultural influences to studio practice students challenge cultural production and its potential for societal impact, dissidence, and the creation of anti-oppressive artistic expression. Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2050	INTRODUCTION TO SOUND ART (3) Explores sound as a medium for creative expression. Topics include digital field recording and editing, physics of sound, history of sound art, and contemporary sound-based practices. Students produce creative projects and participate in a public art exhibition. Additional course fee. Prerequisite: ENG 1270/127 or 1230/123.	3	6
ART 2101	ANCIENT THROUGH MEDIEVAL ART (3) Art from prehistoric times through the medieval cultures. IAI: F2 901 Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2102	RENAISSANCE THROUGH BAROQUE ART (3) Art from the 13th through the 18th centuries with emphasis on important artists and their distinctive styles. Writing emphasis course. IAI: F2 902 Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2103	MODERN ART (3) Art from 1800 to the present, stressing the major movements and artists. Writing emphasis course.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ENG 1270/127 or 1230/123.		

ART 2105	AFRICAN ART (3) Art of sub-Saharan Africa. Its aesthetics in relation to history and culture; emphasis on the sculpture of West Africa. Museum visits required. (Enrichment core course.) (This course satisfies one of the core requirements for the African American Studies major or minor.) IAI: F2 903N Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2110	INTRODUCTION TO NON-WESTERN ART (3) A survey of non-Western art exploring African, Asian, Islamic, Oceanic, and Native American culture and art. Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2120	HISTORY OF PHOTOGRAPHY (3) An overview and appreciation of the art, technology and myriad uses of still photography from 19th century pioneers to 21st century contemporary practitioners. Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2122	PHOTOGRAPHY AND DIVERSITY: NEW HISTORIES (3) An overview of cultural uses of still photography in Africa, Asia, Latin America, and communities in Diaspora, with concentration on photographic work that challenges dominant cultural paradigms, from the 19th century pioneers to 21st century contemporary practitioners. Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2130	THEORY OF FILM (3) Ideas, technical and theoretical approaches that have shaped the making and study of film.	3	3
ART 2140	The Chicago Art Scene (3) Visits to Chicago area artists' studios and businesses, gallery spaces, and organizations. Orientation, lectures and discussions based upon these visits.	3	3
ART 2150	SURVEY OF WOMEN ARTISTS (3) Study of the contributions of women artists from the ancient to the present. Fulfills Diversity Requirement and elective requirement for Women's Studies minor. IAI: F2 907D. Prerequisite: ENG 1270/127 or 1230/123.	3	3
ART 2200	DRAWING II (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Compositional drawing for advanced students. Further work in the study of form and space through a variety of drawing media and subjects. Additional course fee. IAI: ART 905 Prerequisite: ART 1200/128.		
ART 2210	FIGURE DRAWING LECTURE AND STUDIO/6 (3) Study of the human figure in a variety of drawing media. Emphasis on form interpretation and composition. Additional course fee. IAI: ART 906 Prerequisite: ART 1200/128.	3	6
ART 2230	PAINTING I LECTURE AND STUDIO/6 (3) Painting in various media, learning control of materials and techniques and developing an understanding of the three-dimensional illusion in relation to the two-dimensional surface. Additional course fee. IAI: ART 911 Prerequisite: ART 1200/128.	3	6
ART 2245	WATERCOLOR I (3) Introduction to painting with transparent and opaque water-based media. Credit will not be given for both ART 2240/295 and 2245. Additional course fee. Prerequisites: ART 1200/128	3	6
ART 2260	PRINTMAKING I LECTURE AND STUDIO /6 (3) Introduction to print processes which may include relief, intaglio, and planography. Additional course fee. Prerequisite: ART 1200/128 or 1280/280.	3	6
ART 2310	DOCUMENTARY PHOTOGRAPHY (3) Production of expressive, documentary photographic projects in the service of individual and/or collaborative goals, with close attention paid to contemporary and historical strategies, social and artistic uses and presentational modes. Additional course fees. Prerequisites: ART 1300/130	3	6

ART 2350	COLOR PHOTOGRAPHY I LECTURE AND STUDIO /6 (3)	3	6
	<p>Introduction to contemporary color photography, exploring the creative uses of color theory, analogue and digital film capture, scanning, Adobe Photoshop and color managed workflow with digital printer output. DSLR camera required. Consult instructor for specifications. Additional course fee.</p> <p>Prerequisite(s): ART 1300/130 or ART 2360 or consent of department.</p>		

Course	Course Description	Credit Hrs.	Contact Hrs.
ART 2360	DIGITAL PHOTOGRAPHY I LECTURE AND STUDIO /6 (3)	3	6
	An introduction of the fundamental principles, techniques, and applications of digital photography as a creative medium exploring photo- and camera-based image making. Additional course fee.		
ART 2401	SCULPTURE I LECTURE AND STUDIO/6 (3)	3	6
	Introduction to concepts, materials, and processes common to traditional and contemporary sculpture. Areas studied include additive and reductive processes, fabrication, mold-making and casting in a variety of materials. Credit cannot be received for both ART 1400 and ART 2401. Additional course fee.		
ART 2455	JEWELRY/METALSMITHING I (3)	3	6
	Introduction to basic jewelry and metalsmithing processes, materials, tools, and equipment. Cannot receive credit for both ART 2450/285 and ART 2455. Additional course fee.		
ART 2500	FIBER ARTS I LECTURE AND STUDIO /6 (3)	3	6
	Non-loom processes including examination of felting, basketry, macram, embroidery, quilting, and other techniques found in textiles. Additional course fee. IAI: ART 916		
ART 2540	WEAVING I LECTURE AND STUDIO /6 (3)	3	6
	A study of fiber, yarn and fabric construction including the history of weaving and looms. Techniques of warping and threading, weaving of all basic constructions, and the theory and drafting of basic weaving will be explored. Additional course fee.		
ART 2570	CERAMICS I LECTURE AND STUDIO/6 (3)	3	6
	Introductory study of clay forms in pottery and sculpture through hand-building processes, with an introduction to the wheel. Additional course fee. IAI: ART 912 Credit not given for both ART 1575 and ART 2570.		

ART 2600	ART FOR PRE K-8 TEACHERS (3) Builds knowledge and art skills necessary for creating and teaching art activities in pre K-8 educational settings and alternative learning environments. Additional course fee.	3	6
ART 2710	ILLUSTRATOR/PHOTOSHOP LECTURE AND STUDIO /6 (3) Introduction to digital imaging using Illustrator and PhotoShop. Credit will not be given for both Art 2710/274 and 294. Additional course fee. Prerequisite: Consent of the department	3	6
ART 2712	GRAPHIC DESIGN I (3) An introduction to graphic design; understanding and application of two-dimensional perception to visual communication. Exploration of symbols, images and letter forms.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Credit will not be given for ART 2715/290. Additional course fee. IAI: ART 918. Prerequisites: ART 1200/128, ART 1280/280, and ART 2710/274.		
ART 2714	TYPOGRAPHY I (3) Introduction to the aesthetics and mechanics of typography. Experimentation with the relationship of type and image to solve graphic design problems. Credit will not be given for ART 3710/386. Additional course fee. Prerequisites: ART 2712	3	6
ART 2730	ANIMATION/GAME DESIGN I (3) Introduction to two-dimensional digital animation and game design from concept to final product. Will expand visual vocabularies and expose students to industry standard software. Additional course fee.	3	6
ART 3010	THE BUSINESS OF ART (3) Exploration and development of business and marketing concepts, methods, and techniques necessary to successfully run for-profit and not-for-profit businesses in the arts.	3	3
ART 3097	INDEPENDENT STUDY LECTURE AND STUDIO (3) Exploration and development of problems for individual students in studio or art history. Additional course fee. Prerequisites: Consent of the instructor.	3	6

ART 3098	INDEPENDENT STUDY LECTURE AND STUDIO (3) Exploration and development of problems for individual students in studio or art history. Additional course fee. Prerequisites: Consent of the instructor.	3	6
ART 3099	INDEPENDENT STUDY LECTURE AND STUDIO /3-18 (3) Exploration and development of problems for individual students in studio or art history. May not be repeated. Additional course fee. Prerequisite: Consent of the instructor.	3	6
ART 3100	INTRODUCTION TO ART CRITICISM (3) Methods and application of art criticism and various interpretations of works of art. Prerequisites: ART 1100/101 or ART 1104; ENG 1270/127 or 1230/123.	3	3
ART 3200	DRAWING III (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Creation of works on paper in a range of drawing media. Contemporary and traditional art concepts and processes are explored. Group assignments lead into independent research and practice. Group and individual critiques are an integral part of course. Prerequisite: ART 2200/238		
ART 3230	PAINTING II LECTURE AND STUDIO/6 (3) Continuation of Art 2230/248 with an emphasis on further development of the students' expressive skills. Additional course fee. Prerequisite: ART 2230/248.	3	6
ART 3245	WATERCOLOR II (3) Continuation of ART 2245 with emphasis on responding to contemporary trends and developing individual projects in this medium. Additional course fee. Prerequisites: ART 2245.	3	6
ART 3260	PRINTMAKING II LECTURE AND STUDIO /6 (3) Further development of relief and intaglio printmaking processes. Additional course fee. Prerequisite: ART 2260/218.	3	6

ART 3310	PHOTOGRAPHY III LECTURE AND STUDIO (3) Advanced work in black-and-white darkroom photography utilizing self-generated projects in the development and production of photographic portfolios for exhibition or a book. Additional course fee. Prerequisite: Art 2300/232.	3	6
ART 3330	PHOTOGRAPHIC LIGHTING LECTURE AND STUDIO/6 (3) Introduction to applied photographic projects relating to the use of artificial light and controlled natural lighting techniques used in studio photography. Additional course fee. Prerequisite: ART 1300/130.	3	6
ART 3340	BLACK AND WHITE DARKROOM PHOTOGRAPHY I/6 (3) Introduction to camera, black-and-white printing and processing techniques, stressing the creative and technical control of camera and light sensitive materials. Additional course fee. Credit will not be given for both ART 1300 and ART 3340. Prerequisite(s): ART 2360 or consent of department.	3	6
ART 3350	COLOR PHOTOGRAPHY II LECTURE AND STUDIO /6 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Expansion of skill sets acquired in Color Photo I with emphasis on personal, creative and thematic projects in digital/analogue color photography. DSLR camera required. Additional course fee. Prerequisite(s): ART 2350/233		
ART 3360	DIGITAL PHOTOGRAPHY II LECTURE AND STUDIO /6 (3) Exploration of photographic imagery for design and interactive media applications. Use of digital single lens reflex camera and other input devices to create, access, and manipulate images, as well as current software and technology. DSLR camera required. Consult instructor for specifications. Additional course fee. Prerequisite(s): ART 1300/130 or ART 2360 and ART 2710/274	3	6
ART 3401	SCULPTURE II LECTURE AND STUDIO/6 (3) Continued investigation of sculpture concepts, history and trends. Development of better proficiency with tools, materials and processes. Additional course fee. Prerequisite(s): ART 2401/1400 and consent of department.	3	6

ART 3405	SCULPTURE III LECTURE AND STUDIO/6 (3) Advanced investigation of sculpture concepts, history and trends. Greater emphasis placed on concept development, personal aesthetic and contemporary issues. Additional course fee. Credit will not be given for both ART 3405 and ART 3400. Prerequisite(s): ART 3401/2400 with a grade of C or higher or consent of department.	3	6
ART 3410	SPECIAL TOPICS IN SCULPTURE (3) In depth study of selected topics in sculpture. Course may be repeated under different topics. Additional course fee. Prerequisites: ART 1400/219	3	6
ART 3455	JEWELRY/METALSMITHING II (3) Continued exploration of basic jewelry and metalsmithing processes, materials, tools, and equipment. An emphasis will be placed on conceptual and technical problems. Cannot receive credit for both ART 3450/288 and ART 3455. Additional course fee. Prerequisites: ART 2450/285 or ART 2455.	3	6
ART 3465	JEWELRY/METALSMITHING III (3) Emphasis placed on developing proficiency in the selection, use, and manipulation of materials and mastery of processes. Continued focus on projects that challenge students conceptually and technically. Portion of work assigned will be self-directed. Cannot receive credit for both ART 3460/292 and ART 3465. Additional course fee.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: ART 3450/288 or ART 3455.		
ART 3500	FIBER ARTS II LECTURE AND STUDIO /6 (3) Printing and dyeing techniques in fiber art including examination of batik, tie-dye, block printing, direct application, and in-skein dyeing. Additional course fee. Prerequisite: ART 2500/277 or 2540/286 or consent of department.	3	6
ART 3540	WEAVING II LECTURE AND STUDIO /6 (3) Continuation of Art 2540/286 with in-depth experiences with floor and table looms. Additional course fee. Prerequisite: ART 2540/286.	3	6

ART 3570	CERAMICS II LECTURE AND STUDIO/6 (3) Continuation of ART 2570/1575 and the further development of the students' skills with handbuilding and wheel throwing processes. Additional course fee. Credit will not be given for both ART 3570 and ART 2575. Prerequisite(s): ART 2570/1575	3	6
ART 3575	CERAMICS III LECTURE AND STUDIO /6 (3) Continuation of Art 2575/383 with the study of advanced techniques and an emphasis on individual projects. Additional course fee. Prerequisite: ART 2575/383.	3	6
ART 3715	3-D DIGITAL MODELING LECTURE AND STUDIO /6 (3) Introduction to 3-D Modeling on the computer. Additional course fee. Prerequisite: Art 2720/281 and 3710/386 or consent of the department.	3	6
ART 3722	GRAPHIC DESIGN II (3) Analysis and development of applied design problems related to sequencing, multiple imagery and designing for a multi-page format. Credit will not be given for ART 3720/387. Additional course fee. Prerequisites: ART 2714 Typography I or ART 3710/386 Visual Communications II.	3	6
ART 3724	GRAPHIC DESIGN III (3) Analysis and development of two- and three-dimensional applied design problems related to the development of a corporate identity program. Credit will not be given for ART 3725/388. Additional course fee.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: ART 2714 Typography I or ART 3710/386 Visual Communications II.		
ART 3726	DESIGN FOR INTERACTIVE MEDIA (3) Analysis and development of interactive design and presentation incorporating sound and animation. Credit will not be given for ART 3735/389. Additional course fee. Prerequisites: ART 2714 Typography I	3	6

ART 3730	WEB PAGE DESIGN LECTURE AND STUDIO /6 (3) Introduction to web page design. Credit will not be given for both Art 3730/395 and 394. Additional course fee. Prerequisites: Art 3710/386 or consent of department.	3	6
ART 3740	Advanced Web Page Design /6 (3) Continuation of Art 3730/395 with emphasis on using current computer software: Macromedia Dreamweaver, Fireworks, and Flash. Additional course fee. Prerequisite: Consent of the department.	3	6
ART 3960	SPECIAL TOPICS IN ART AND DESIGN LECTURE AND STUDIO/6 (3) In-depth study of selected topics in art and design. Course may be repeated under different topics. Additional course fee. Prerequisite: Consent of the department.	3	6
ART 4000	CONTEMPORARY ART PRACTICES SEMINAR AND STUDIO (3) Artworks realized following directed readings and group discussions. Concept development determined by instructor and students' area of concentration and interest. Cross-disciplinary approach encouraged. Open to all Art and Design students regardless of option. Course may be repeated twice for credit. Additional course fee. Prerequisites: Successful completion of second assessment and junior status.	3	6
ART 4098	ADVANCED INDEPENDENT STUDY LECTURE AND STUDIO (3) Independent concentrated study; students research and develop individual projects in studio or art history. Additional course fee. Prerequisites: Senior standing and consent of the instructor.	3	6
ART 4099	ADVANCED INDEPENDENT STUDY LECTURE AND STUDIO /3-12 (3) Advanced independent concentrated study; students research and develop individual projects in studio or art history. Course may not be repeated. Additional course fee.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Senior standing and consent of the instructor.		

ART 4110	<p>PROTEST ART (3)</p> <p>A study of the artist as a social commentator from antiquity through the present. Field trips required.</p> <p>Prerequisites: ART 1100/101 or ART 1104; ENG 1270/127 or 1230/123.</p>	3	3
ART 4120	<p>AFRICAN AMERICAN ART (3)</p> <p>Art from colonial period to present, focusing on historical, economic and psychological issues pertaining to African American artists. (Satisfies the elective requirements for the African American Studies major or minor).</p> <p>Prerequisites: ART 1100/101 or ART 1104; ENG 1270/127 or 1230/123.</p>	3	3
ART 4230	<p>PAINTING III (3)</p> <p>Emphasis on development of students' expressive skills and thematically related paintings. Additional course fee.</p> <p>Prerequisites: ART 3230/258</p>	3	6
ART 4340	<p>BLACK AND WHITE DARKROOM PHOTOGRAPHY II/6 (3)</p> <p>Continuation of black-and-white printing and processing techniques, stressing the creative and technical control of camera and light sensitive materials. Additional course fee. Credit will not be given for both ART 2300 and ART 4340.</p> <p>Prerequisite(s): ART 3340 or consent of department.</p>	3	6
ART 4350	<p>COLOR PHOTOGRAPHY III LECTURE AND STUDIO /6 (3)</p> <p>Further development of the students' expressive skills through individual projects and advanced techniques. DSLR camera required. Consult instructor for specifications. Additional course fee.</p> <p>Prerequisite(s): ART 3350/333</p>	3	6
ART 4360	<p>DIGITAL PHOTOGRAPHY III LECTURE AND STUDIO /6 (3)</p> <p>Continuation of Art 3360 with emphasis on solving complex design problems with the use of photography and current computer software and technology. DSLR camera required. Consult instructor for specifications. Additional course fee.</p> <p>Prerequisite(s): ART 3360/315</p>	3	6
ART 4400	<p>SCULPTURE IV (3)</p>	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Advanced investigation of sculpture concerns. Greater emphasis placed on concept development, personal aesthetic, and contemporary issues with focus on individualized projects. Additional course fee.</p> <p>Prerequisites: ART 3400/319 and consent of department.</p>		
ART 4575	<p>CERAMICS IV LECTURE AND STUDIO /6 (3)</p> <p>Individual projects in advanced ceramic wheel throwing and handbuilding. Additional course fee. Prerequisite: ART 3575/384.</p>	3	6
ART 4649	<p>TECHNOLOGY AND ART EDUCATION FOR TEACHERS (3)</p> <p>Overview of the use of computers and other electronic technologies for teaching art in K-12 settings. Focus will be hands-on experiences with the current hardware, teacher support software, and educational software for children using the Windows/Mac Operating systems.</p> <p>Prerequisites: ENG 1270/127 or 1230/123 and ED 1520/152 or consent of department.</p>	3	4
ART 4662	<p>FOUNDATIONS OF ART EDUCATION (3)</p> <p>Theoretical and philosophical foundations of teaching art in grades K-12 including contemporary theory and practice in art education. 30 hours of field experience.</p> <p>Prerequisite: Admission to College of Education, ELCF 4500/353 or ELED 3010/201, and READ 4100/306, or consent of the department.</p>	3	3
ART 4664	<p>TEACHING ART IN ELEMENTARY AND SECONDARY SCHOOLS/FIELD (3)</p> <p>Developing skills in designing comprehensive art curriculum teaching art production, art history, art criticism, and aesthetics in grades K-12. 30 hours of field experience. Additional course fee.</p> <p>Prerequisites: ART 4662/362 Co-requisite: CAS 2630</p>	3	3
ART 4920	<p>PRACTICUM SEMINAR AND FIELD /12-24 (6-12)</p> <p>Field experience in the fine and/or applied arts for the purpose of developing technical and professional marketable skills. May be repeated once for credit for up to a maximum of 18 credit hours.</p> <p>Prerequisite: An overall GPA of 2.75 and a 3.0 in the major, consent of the department, and junior/senior standing. Student must apply one term prior to the term the practicum will be taken.</p>	6	6
ART 4950	<p>PORTFOLIO PREPARATION LECTURE AND STUDIO /6 (3)</p> <p>Program capstone course in which students create professional documents and portfolios</p>	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>appropriate for entering the work force and/or graduate school. Requires a senior project, research paper and an exhibition. Additional course fee.</p> <p>Prerequisite(s): Senior art major or consent of department, successful completion of second assessment portfolio and completion of all required university academic skills courses (e.g. ENG 1240 or ENG 1280).</p>		
ART 4975	<p>STUDENT TEACHING AND SEMINAR: K-12/FIELD (6)</p> <p>Off-campus placement in elementary/secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit given for only one of the following: ART 275, 375, and 4975/376.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 3.0 cumulative grade point average in the area of specialization, in professional education, and 2.5 in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
ART 5099	<p>ADVANCED INDEPENDENT STUDY LECTURE AND STUDIO /6 (3)</p> <p>Independent concentrated study where students research and develop individual projects in studio art or art history. May be repeated up to six credit hours. Prerequisite: Consent of the instructor.</p>	3	6
ART 5950	<p>PORTFOLIO PREPARATION LECTURE AND STUDIO/6 (3)</p> <p>For advanced art students entering the work world. Students will prepare a portfolio consisting of already completed work, revised assignments, and new projects. Presentation techniques will be stressed, culminating in participation in a graduating senior exhibit. Additional course fees. Prerequisite: Consent of the instructor.</p>	3	6

Business Education (B E)

Course	Course Description	Credit Hrs.	Contact Hrs.
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B E 3092	ILLINOIS BUSINESS EDUCATION TEACHER CERTIFICATION REVIEW (1) Review of business education theory and practice in preparation for the State Teacher Certification Examination. Credit does not count toward graduation. Prerequisite: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.	1	1
B E 3211	MANAGEMENT FOR BUS ED TEACHERS (3) Management principles, operations, theories, and decisions in the secondary education curriculum. Prepares BE teachers to utilize business and school resources in producing goods and services and to apply ethical considerations in education to issues confronted in national and international business environments. Prerequisite: Junior standing and consent of department.	3	3
B E 3301	PRINCIPLES OF WORD PROCESSING LECTURE AND LABORATORY /4 (3) Overview of office equipment technology. Improvement of keyboarding, special key operations, speed, accuracy, editing, language skills, proofreading, formatting, and production. Prerequisite: T&ED 1109/109, or consent of the department.	3	4
B E 3341		3	4
B E 4302	ADVANCED WORD PROCESSING LECTURE AND LABORATORY /4 (3) Specialized instructions in formatting, editing, proofreading, and language skills to produce error free copy in an office simulation. Prerequisite: B E 3301/301.	3	4
B E 4307	ENTREPRENEURSHIP FOR TEACHERS (3) Principles, methods, and aspects of starting, developing, and managing a new enterprise. (A writing emphasis course.) Prerequisite: Junior standing or consent of the department.	3	3
B E 4310	SALES (3) Principles, techniques, and processes for selling. The course also includes sales demonstrations and strategies of teaching sales. Prerequisite: MKTG 3110/276	3	3
B E 4312	CONSUMER LAW (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Consumer law which will be of use to students in their everyday lives.</p> <p>Prerequisite: Junior standing or consent of the department.</p>		
B E 4313	<p>MARKETING FOR BUS ED TEACHERS (3)</p> <p>Marketing principles and theories as these relate to utilizing business and school resources to produce varied goods and services for diverse populations. Considerations pertaining to issues in national and international business environments, such as ethics, will also be correlated in relevant ways to the education field as applicable to both middle and secondary school settings.</p> <p>Prerequisite: B E 3211/211</p>	3	3
B E 4320	<p>CONSUMER EDUCATION (3)</p> <p>A study of the changing role of consumers, consumption of goods and services, and planning for the future. Issues and problems examined from the point of view of business, government, agriculture, and consumer.</p> <p>Prerequisite: Sophomore standing.</p>	3	3
B E 4341	<p>PRINCIPLES OF SPREADSHEET /4 LECTURE AND LABORATORY (3)</p> <p>Overview of DOS (disk operating system), development of basic skills of using help facility in spreadsheet, moving around the worksheet, typing cell entries, using commands, entering formulas, and other spreadsheet keyboard skills. (Taught on IBM compatible computers.)</p> <p>Prerequisite: T&ED 1109/109 or consent of the department.</p>	3	4
B E 4350	<p>OFFICE MANAGEMENT (3)</p> <p>Principles and practices in office administration and information management. Emphasis placed on human relations, material and equipment in the office environment.</p> <p>Prerequisite: Junior standing or consent of the department.</p>	3	3
B E 4398	<p>SPECIAL TOPICS IN BUSINESS EDUCATION (1-3)</p> <p>Problems that have a high degree of contemporary significance. Course may be repeated for credit under different topics.</p> <p>Prerequisite: Junior standing or consent of the department.</p>	1	1

B E 4750	STUDENT TEACHING IN SECONDARY BUSINESS EDUCATION (6) Off campus placement in secondary schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit will not be given for	6	6
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Course	Course Description	Credit Hrs.	Contact Hrs.
	both B E 293 and B E 4750/375. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.		
B E 5301	PRINCIPLES OF WORD PROCESSING LECTURE AND LABORATORY /4 (3) Overview of office equipment technology. Improvement of keyboarding, special key operations, speed, accuracy, editing, language skills, proofreading, formatting, and production. Prerequisite: T&ED 1109/109, or consent of the department.	3	4
B E 5302	ADVANCED WORD PROCESSING LECTURE AND LABORATORY /4 (3) Specialized instructions in formatting, editing, proofreading, and language skills to produce error free copy in an office simulation. Prerequisite: BE 3301/301.	3	4
B E 5307	ENTREPRENEURSHIP FOR TEACHERS (3) Principles, methods, and aspects of starting, developing, and managing a new enterprise. Prerequisite: Consent of the department.	3	3
B E 5310	SALES (3) Principles, techniques, and processes for selling. The course also includes sales demonstrations and strategies of teaching sales. Prerequisite: MKTG 3110/276 or consent of the department.	3	3
B E 5312	CONSUMER LAW (3) To provide an understanding of consumer law which will be of use to students in their every day lives.	3	3

B E 5313	MARKETING FOR BUS ED TEACHERS (3) Marketing principles and theories as these relate to utilizing business and school resources to produce varied goods and services for diverse populations. Considerations pertaining to issues in national and international business environments, such as ethics, will also be correlated in relevant ways to the education field as applicable to both middle and secondary school settings. Prerequisite: BE 3211/211	3	3
B E 5320	CONSUMER EDUCATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	A study and review of research of the changing role of consumers, consumption of goods and services, and planning for the future. Issues and problems examined from the point of view of business, government, agriculture, and consumer. Prerequisite: Consent of the department.		
B E 5341	PRINCIPLES OF SPREADSHEETS LECTURE AND LABORATORY /6 (3) Overview of DOS, development of basic skills of using help facility in spreadsheets, moving around the worksheet, typing cell entries, using commands, entering formulas and other spreadsheet keyboard skills. Taught on IBM compatible computers. Prerequisite: T&ED 1109/109 or consent of the department.	3	4
B E 5342	ADVANCED SPREADSHEETS LECTURE AND LABORATORY /4 (3) Specialized development of worksheet commands, expanding, and modifying the spreadsheet as a database. Taught on IBM compatible computers. Prerequisite: Consent of the department.	3	4
B E 5343	PRINCIPLES OF DATABASES LECTURE AND LABORATORY /4 (3) Overview of DOS, development of basic skills of using commands. Defining, entering, editing, and exiting databases. (Taught on IBM compatible computers.) Prerequisite: T&ED 1109/109 or consent of the department.	3	4
B E 5350	OFFICE MANAGEMENT (3) Principles and practices in office and administrative services. Emphasis placed on the flow of man, material, and machines in the office environment. Prerequisite: Consent of the department.	3	3

B E 5439	RESEARCH AND DEVELOPMENT IN OFFICE TECHNOLOGY (1-3) Special reading, topics or projects in office technology. (May be repeated to a maximum of six semester hours.) Prerequisite: Consent of the department.	1	1
B E 5498	SPECIAL TOPICS IN BUSINESS EDUCATION (1-3) Techniques of teaching new technological concepts or application of Business Education to new teaching situations. Prerequisite: Consent of the department.	1	1
B E 5750	STUDENT TEACHING AND SEMINAR:BUSINESS EDUCATION /FIELD (6)	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Off campus placement in secondary level schools in two or more grade levels of business skill and non-skill courses. University and field based school supervision. Five full days per week, including seminar, for one semester. No other courses may be taken during the semester of student teaching. Prerequisite: Admission to the College of Education; completion of all coursework in the approved program; grade point average of 2.5 in the area of specialization, professional education, and all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.		

Bilingual Education (BIL)

Course	Course Description	Credit Hrs.	Contact Hrs.
BIL 1450	<p>FOUNDATIONS IN BILINGUAL EDUCATION/FIELD (3)</p> <p>Introduction to the philosophical, historical and pedagogical foundations of bilingual education. Essay writing demonstrating a thorough working knowledge of the history, philosophy, and politics of bilingual education. Introduction to WWW searches and use of word processing wizards. Fifteen hours of supervised teacher aiding. Writing emphasis course.</p> <p>Prerequisite: Consent of the Department.</p>	3	3
BIL 1451	<p>TEACHING WITH TECHNOLOGY I (3)</p> <p>Introduction to Live Text and Blackboard. Includes planning the electronic portfolio.</p> <p>Prerequisite: Concurrent enrollment in either BIL 1450/145 or ELCF 1520/152.</p>	1	1
BIL 2000	<p>PRINCIPLES AND PRACTICES OF BILINGUAL EDUCATION /FIELD (3)</p> <p>Orientation to the bilingual classroom. Exploration into the roles of teachers, students, curriculum, and school cultures. Planning and construction of a thematic unit. Technology emphasis in construction and utilization of graphic organizers. Twenty hours of field-based supervised teacher aiding.</p> <p>Prerequisite: BIL 1450/145. Consent of the department.</p>	3	3
BIL 2001	<p>TEACHING WITH TECHNOLOGY II (1)</p> <p>Integration of software into thematic units. Includes slideshow, writing, rubric programs to be used in lesson planning.</p> <p>Prerequisites: Concurrent enrollment in either BIL 2000/200 or ELED 3010/201.</p>	1	1
BIL 4000	<p>HISTORY, PHILOSOPHY AND EQUITY IN BILINGUAL EDUCATION (3)</p> <p>Introduction to the philosophical, historical and pedagogical foundations of bilingual education, and the study of the political, social, historical, philosophical, and economic implications for bilingual education. Introduction to educational philosophies that promote equity in the implementation of bilingual education. Fifteen (15) clock hours of supervised teacher aiding and/or observation in bilingual classrooms. Writing emphasis course.</p> <p>Prerequisite(s): Consent of department.</p>	3	3

BIL 4001	THEORY AND RESEARCH BEST PRACTICES IN BILINGUAL EDUCATION (3)	3	3
	Orientation to the bilingual classroom through theory, research and exploration. Examination of the roles of teachers, students and curriculum and planning for differentiated instruction. Emphasis on collaborative relationships and professional conduct in meeting the needs of CLD students. Twenty (20) clock hours of field-based supervised		

Course	Course Description	Credit Hrs.	Contact Hrs.
	teacher aiding in bilingual classrooms. Prerequisite(s): BIL 4000 or 4700/1450; consent of department.		
BIL 4002	APPLIED LINGUISTICS IN BILINGUAL EDUCATION (3)	3	3
	Introduction to the English language, including language and the brain, first and second language acquisition, major components of linguistics (e.g., phonology, morphology, syntax, semantics, and sociolinguistics) and cognition and learning. Emphasis on the applicability of linguistics for ESL and bilingual education teachers and their students. Fifteen (15) clock hours of field-based experience.		
BIL 4003	THEORETICAL FOUNDATIONS OF TEACHING ESL (3)	3	3
	Exploration of second language learning and acquisition theories as they pertain to ESL instruction. Sociolinguistic and sociocultural issues related to the teaching of English as a second language are also investigated. Fifteen (15) clock hours of observation & tutoring. Prerequisite(s): BIL 4000 or 4700/1450; consent of department.		
BIL 4004	CROSS CULTURAL STUDIES FOR TEACHING ENGLISH LEARNERS (3)	3	3
	Impact of culture on learners within society and the educational system and the importance of understanding the power of culture in addressing the needs of English Learners. Exploration of the processes of acculturation and cultural conflict and the influence of cultural assumptions on student performance and self-image in the American educational system. Design of culturally relevant instruction to promote student academic success. Fifteen (15) clock hours of field-based experience. Prerequisite(s): Consent of department.		

BIL 4005	TEACHING ENGLISH LANGUAGE LEARNERS (3) Foundational knowledge and current research on the social and academic factors that influence English Learners (ELs) learning experiences. Exploration of strategies for teaching and assessing ELLs for educators across disciplinary content areas. Analysis of theories of first, second and heritage language sociolinguistics; language policy and planning; crossdisciplinary collaboration; parental/family language practices; family and community participation and involvement; informed decision making and advocacy; school/community discourses; learner accommodations; WIDA and Common Core standards; and culturally and linguistically appropriate assessment. Twenty (20) clock hours of field-based experience.	3	3
BIL 4010	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM: FINE ARTS, HUMANITIES AND CHILDREN'S LITERATURE (3) Integrated approaches, methods, strategies and materials for teaching the fine arts, music, history and literature for the development of bilingualism and biliteracy in bilingual education classrooms. Fifteen (15) clock hours of field-based experience. Includes approaches, methods and strategies that make content accessible for both monolingual English speaking and culturally and linguistically diverse students.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): BIL 4000 or 4700/1450; Admission to the COE; proficiency in English and Spanish.		
BIL 4011	METHODS AND MATERIALS IN BILINGUAL THE CLASSROOM: TECHNOLOGY, READING AND LANGUAGE ARTS (3) Methods and materials for teaching reading, writing and language arts to K-12 students in Spanish. Emphasis on the examination of linguistic factors affecting the teaching of Spanish reading to heritage speakers, students whose primary language is Spanish and students learning Spanish as a second language, and the use of technology to enhance the development of biliteracy. Fifteen (15) clock hours of field-based experience. Prerequisite(s): BIL 4001 or 2000/200; Admission to the COE.	3	3
BIL 4012	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM: COLLABORATIVE TEACHING AND INSTRUCTIONAL STRATEGIES (3) Collaborative approaches, methods, strategies, materials for instruction of children in bilingual education classrooms. Exploration of effective pedagogical strategies for all content areas. Fifteen (15) clock hours of supervised teacher aiding in bilingual classrooms. Prerequisite(s): BIL 4001 or 2000/200; consent to department; Admission to the COE.	3	3

BIL 4013	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM: TEACHING AND INQUIRY IN THE NATURAL SCIENCES (3)	3	3
	<p>Exploration of methods and materials for scientific inquiry in the natural sciences by experiencing scientific inquiry in the elementary classroom. Design and implementation of effective science lessons for all children including ELs. Emphasis in strategies to build academic language in multiple modalities. Twenty (20) clock hours of clinical experience. Includes approaches, methods and strategies that make content accessible for both monolingual English speaking and culturally and linguistically diverse students.</p> <p>Prerequisite(s): BIL 4001 or 2000/200; Admission to the COE.</p>		
BIL 4014	METHODS AND MATERIALS IN BILINGUAL CLASSROOMS: TEACHING AND MULTIPLE PERSPECTIVES IN THE SOCIAL SCIENCES (3)	3	3
	<p>Exploration of methods and materials for teaching elementary level social sciences. Investigation of the purposes, domain structures and multiple perspectives in the design, implementation and reflection of effective social studies lessons for all children including ELs. Emphasis in strategies to build multiple perspectives and academic language in multiple modalities. Includes approaches, methods and strategies that make content accessible for both monolingual English speaking and culturally and linguistically diverse students.</p> <p>Prerequisite(s): BIL 4001 or 2000/200; consent to department; Admission to the COE.</p>		
BIL 4015	METHODS AND MATERIALS FOR TEACHING ESL (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Examination and application of conceptual and pedagogical tools for teaching English as a second language based on theories of second language acquisition, pedagogy, and methodology. Exploration on how to use these tools to create effective language and content instruction that is differentiated according to language proficiency. Discussion of relevant national, state and local language and content standards and assessments in relation to teaching ESL. Twenty (20) clock hours of supervised tutoring and teacher aiding in ESL classrooms.</p> <p>Prerequisite(s): BIL 4003 or 4100/3100/365; consent of department; Admission to the COE.</p>		

BIL 4016	STUDENT TEACHING IN THE BILINGUAL CLASSROOM I (3) Supervised hands-on experience in two placements: (1) a 1st - 3rd and (2) a 4th - 6th classroom designed for candidates to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. The course requires an impact on Student Learning study as a Capstone Project. One hundred (100) clock hours in the field. To be taken the semester prior to student teaching. Prerequisite(s): Admission to the College of Education; completion of a minimum of two (2) of the following courses: ELED 4170/307, READ 4280/308, BIL 4012 or BIL 4300/331, BIL 4015 or BIL 4350/378 and concurrent enrollment in the remaining; consent of department.	3	3
BIL 4017	ASSESSMENT AND EVALUATION IN BILINGUAL EDUCATION (3) Focus on the equitable assessment of English Learners. Exploration of the ways assessment of ELLs is conceptualized within larger historical, social, cultural, and political contexts. Examination, adaptation and development of effective classroom assessments that measure English language proficiency and content area learning. Review of state and national language proficiency and content standards, and examination of how they are measured in mandated assessments. Twenty (20) clock hours of supervised tutoring in bilingual classrooms. Prerequisite(s): BIL 4001 or 2000/200 and BIL 4003 or 4100/3100/365; consent of department.	3	3
BIL 4018	STUDENT TEACHING IN THE BILINGUAL CLASSROOM II (6) Off campus placement in a bilingual 1st through 6th grade classroom serving English learners. University and cooperating school supervision. Five full days including seminar for 16 weeks. To be taken concurrently with BIL 4017. Prerequisite(s): Admission to Student Teaching; completion of all required coursework in the approved program; a 2.5 grade point average; and a passing score on the content area licensure test within the last five years.	6	6
BIL 4050	STUDIES IN CROSS CULTURAL EDUCATION (3) The role of culture in the United States educational system. Examination of behavioral expectations and learning styles of students of different cultural backgrounds. Analysis of	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	the impact that cultural diversity has on the development of educational programs. Twenty (20) clock hours of field-based experience. Prerequisites: Consent of the department.		

BIL 4100	TEACHING ESL: THEORETICAL FOUNDATIONS (3) Exploration of second language learning and acquisition theories as they pertain to ESL instruction. Sociolinguistic and socio-cultural issues related to the teaching of English as a second language are also investigated. Twenty (20) clock hours of field-based experience. Prerequisites: BIL 4700 or consent of the department.	3	3
BIL 4150	FOUNDATIONS OF LITERACY IN LINGUISTICALLY DIFFERENT CLASSROOMS (3) Theoretical foundations for literacy instruction of linguistically and culturally diverse student populations. Includes exploration of multicultural literature for children and young adults. Prerequisite: BIL 3100/365 and consent of department.	3	3
BIL 4220	TEACHING LITERATURE & HUMANITIES IN LINGUISTICALLY DIVERSE CLASSROOMS (3) Approaches, methods, strategies and materials for teaching music, arts and literature in linguistically diverse classrooms. Prerequisites: BIL 2000/200; Admission to the College of Education.	3	3
BIL 4230	READING AND LANGUAGE ARTS IN THE BILINGUAL CLASSROOM /FIELD (3) Methods and materials for teaching reading, writing and language arts to P-12 students whose primary language is Spanish. Emphasis on the examination of linguistic and cultural factors affecting the teaching of reading to English language learners. Fifteen clock hours of field-based experience. Prerequisite: BIL 2000/200, ELED 4180/308 and admission to the College of Education.	3	3
BIL 4240	LANGUAGE AND LEARNING (3) Overview of English language structure and use, including phonology, morphology, syntax, semantics and pragmatics. Emphasis on topics useful to teachers of English language learners. Fifteen (15)clock hours of field-based experience.	3	3
BIL 4300	METHODS AND MATERIALS FOR TEACHING SCIENCE AND SOCIAL SCIENCES IN BILINGUAL PROGRAMS/FIELD (3) Approaches, methods, strategies and materials for instruction of Science, technology and society (including earth and space science, the life sciences, the physical sciences, and the environmental sciences) and Social Sciences (including history, geography, economics, political science, sociology, anthropology, psychology, and archaeology) of children in bilingual education classrooms. Development of a thematic unit. Twenty-five clock hours of supervised tutoring in bilingual classrooms.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Prerequisite: BIL 2000/200 or consent of the department and admission to the College of Education. Proficiency in English and Spanish.		
BIL 4350	METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE/FIELD (3) Techniques, methods, and materials for teaching English as a second language. Development of a unit and lesson plans appropriate for limited English proficient children. Students will be placed in ESL classrooms where they will conduct 20 hours of supervised tutoring. Prerequisite: Admission to the College of Education; ENG 4338/338, BIL 3100/365 or consent of the department.	3	3
BIL 4380		1	1
BIL 4390	INDEPENDENT STUDY (1-3) Individually supervised study of an area of bilingual education. Prerequisite: Consent of the department.	1	1
BIL 4400	FIELD PRACTICUM IN BILINGUAL ELEMENTARY EDUCATION /FIELD (3) Supervised hands-on experience in elementary classroom designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. One hundred clock hours in the field. To be taken the long semester prior to student teaching. Prerequisite: Admission to the College of Education; completion of a minimum of two (2) of the following courses: ELED 4170/307, READ 4280/308, BIL 4300/331, BIL 4350/378 and concurrent enrollment in the remaining; consent of the department.	3	3
BIL 4401	TEACHING WITH TECHNOLOGY III (1) Using software in the elementary or secondary classroom. Emphasis on electronic classroom management, movies, and instructional web pages. Prerequisite: Concurrent enrollment in BIL 4400/374, ELED 4200/374 or ECH 4740/374.	1	1
BIL 4450	STUDENT TEACHING IN BILINGUAL EDUCATION / FIELD (6) Off-campus placement in a primary classroom (K-3) and an intermediate (4-6) or upper grade (7-8) classroom. One of the two placements must be a bilingual classroom. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. The course requires an impact on Student Learning study as a Capstone Project. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the concentration, in professional education, and in all coursework required in the approved program; and a passing score on	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	the subject matter/content area certification test within the last five years.		
BIL 4700	<p>HISTORY AND PHILOSOPHY OF BILINGUAL EDUCATION (3)</p> <p>Introduction to the philosophical, historical and pedagogical foundation of bilingual education, and the study of the political, social, historical, philosophical, and economic implications for bilingual education. Fifteen hours of supervised teacher aiding in bilingual classrooms. Writing emphasis course.</p> <p>Prerequisite: Consent of department</p>	3	3
BIL 4720	<p>EVALUATION, ASSESSMENT AND TESTING IN LANGUAGE MINORITY EDUCATION (3)</p> <p>Issues in nondiscriminatory evaluation, assessment and testing of linguistic, academic, cognitive and social achievement. Instruction, assessment and documentation strategies, tools and computer based models at the local, state and national levels will be considered. Construction and presentation of a field-based case study. Twenty hours of supervised tutoring in bilingual classroom.</p> <p>Prerequisites: BIL 1450/145, 2000/200, and 3100/365 or consent of the department.</p>	3	3
BIL 5000	<p>HISTORY PHILOSOPHY AND EQUITY IN BILINGUAL EDUCATION (3)</p> <p>Introduction to the philosophical, historical and pedagogical foundations of bilingual education and the study of political, social, historical, philosophical and economic implications of bilingual education. Introduction to educational philosophies that promote equality in the implementation of bilingual education. Fifteen (15) clock hours of supervised teacher aiding and/or observation in bilingual classrooms. Writing emphasis course.</p>	3	3
BIL 5002	<p>APPLIED LINGUISTICS IN BILINGUAL EDUCATION (3)</p> <p>Introduction to English language, including language and the brain, first and second language acquisition, major components of linguistics (e.g., phonology, morphology, syntax, semantics and sociolinguistics) and cognition and learning. Emphasis on the applicability of linguistics for ESL and bilingual education teachers and their students. Fifteen (15) clock hours of field-based experience.</p>	3	3

BIL 5003	THEORETICAL FOUNDATIONS OF TEACHING ESL (3)	3	3
	Exploration of second language learning and acquisition theories as they pertain to ESL instruction. Sociolinguistic and sociocultural issues related to the teaching of English as a second language are also investigated. Fifteen (15) clock hours of observation and tutoring.		

Course	Course Description	Credit Hrs.	Contact Hrs.
BIL 5004	CROSS CULTURAL STUDIES FOR TEACHING ENGLISH LEARNERS (3)	3	3
	Impact of culture on learners within society and the educational system and the importance of understanding the power of culture in addressing the needs of English Learners. Exploration of the processes of acculturation and cultural conflict and the influence of cultural assumptions on student performance and self-image in the American educational system. Design of culturally relevant instruction to promote student academic success. Fifteen (15) clock hours of field-based experience.		
BIL 5005	TEACHING ENGLISH LANGUAGE LEARNERS (3)	3	3
	Foundational knowledge and current research on the social and academic factors that influence English Language Learners (ELLs) learning experiences. Exploration of strategies for teaching and assessing ELLs for educators across disciplinary content areas. Analysis of theories of first, second and heritage language sociolinguistics; language policy and planning; cross-disciplinary collaboration; parental/family language practices; family and community participation and involvement; informed decision making and advocacy; school/community discourses; learner accommodations; WIDA and Common Core standards; and culturally and linguistically appropriate assessment.		

BIL 5010	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM FINE ARTS HUMANITIES AND CHILDREN'S LITERATURE (3) Integrated approaches, methods, strategies and materials for teaching the fine arts, music, history and literature for the development of bilingualism and biliteracy in bilingual education classrooms. Fifteen (15) clock hours of field-based experience. Prerequisite(s): BIL 5000/5700	3	3
BIL 5012	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM COLLABORATIVE TEACHING AND INSTRUCTIONAL STRATEGIES (3) Collaborative approaches, methods, strategies, materials for instruction of children in bilingual education classrooms. Exploration of effective pedagogical strategies for all content areas. Fifteen (15) clock hours of supervised teacher aiding in bilingual classrooms.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
BIL 5013	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM TEACHING AND INQUIRY IN THE NATURAL SCIENCES (3) Exploration of the methods and materials for scientific inquiry in the natural sciences by experiencing scientific inquiry in the elementary classroom. Design and implementation of effective science lessons for all children including ELs. Emphasis in strategies to build academic language in multiple modalities. Twenty (20) clock hours of clinical experience.	3	3
BIL 5014	METHODS AND MATERIALS IN THE BILINGUAL CLASSROOM TEACHING AND MULTIPLE PERSPECTIVES IN SOCIAL SCIENCES (3) Exploration of the methods and materials for teaching elementary level social sciences. Investigation of the purposes, domain structures and multiple perspectives in the design, implementation and reflection of effective social studies lessons for all children including ELs. Emphasis in strategies to build multiple perspectives and academic language in multiple modalities. Fifteen (15) clock hours of clinical experience.	3	3

BIL 5015	METHODS AND MATERIALS FOR TEACHING ESL (3) Examination and application of conceptual and pedagogical tools for teaching English as a second language based on theories of second language acquisition, pedagogy and methodology. Exploration on how to use these tools to create effective language and content instruction that is differentiated according to language proficiency. Discussion of relevant national, state and local language and content standards and assessments in relation to teaching ESL. Twenty (20) clock hours of supervised tutoring and teacher aiding in ESL classrooms.	3	3
BIL 5016	FIELD PRACTICUM IN THE BILINGUAL CLASSROOM (3) Supervised hands-on experience in two placements: (1) a 1st-3rd and (2) a 4th-6th classroom designed for candidates to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. The course requires an impact on Student Learning study as a Capstone Project. One hundred (100) clock hours in the field. To be taken the semester prior to student teaching. Prerequisite(s): To be taken the semester prior to BIL 5018 Student Teaching in the Bilingual Classroom.	3	3
BIL 5017	ASSESSMENT AND EVALUATION IN BILINGUAL EDUCATION (3) Focus on the equitable assessment of English Learners. Exploration of the ways assessment	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	of ELLs is conceptualized within larger historical, social, cultural and political contexts. Examination, adaptation and development of effective classroom assessments that measure English language proficiency and content area learning. Review of state and National language proficiency and content standards and examination of how they are measured in mandated assessments. Twenty (20) clock hours of supervised tutoring in bilingual classrooms.		

BIL 5018	STUDENT TEACHING IN THE BILINGUAL CLASSROOM (6) Off campus placement in a bilingual 1st through 6th grade classroom serving English learners. University and cooperating school supervision. Five full days including seminar for sixteen (16) weeks. To be taken concurrently with BIL 4017. Prerequisite(s): Admission to Student Teaching; completion of all required coursework in the approved program; a 3.0 grade point average; and a passing score on the content area licensure test within the last five years.	6	6
BIL 5021	METHODS AND MATERIALS IN THE ELEMENTARY BILINGUAL CLASSROOM TECHNOLOGY READING AND LANGUAGE ARTS (4) Methods and materials for teaching reading, writing and language arts to 1-6 students in a native language. Emphasis on the examination of linguistic factors affecting the teaching of native language literacy to heritage speakers, dual language students and students learning a second language. Use of technology to enhance the development of biliteracy. Twenty (20) clock hours of field-based experience.	4	4
BIL 5022	APPLIED LINGUISTICS IN BILINGUAL AND SPECIAL EDUCATION (3) Introduction to language learning, including language and the brain, first and second language acquisition, major components of linguistics (e.g., phonology, morphology, syntax, semantics and sociolinguistics) and cognition and learning. Emphasis on the applicability of linguistics for ESL, bilingual education and special education teachers and their students. Fifteen (15) clock hours of field-based experience.	3	3
BIL 5023	METHODS AND MATERIALS IN BILINGUAL AND SPECIAL NEEDS CLASSROOMS COLLABORATIVE TEACHING AND INSTRUCTIONAL STRATEGIES (5) Collaborative approaches, methods, strategies and materials for instruction of children, inclusive of those in bilingual and special needs classrooms. Exploration of effective pedagogical strategies for all content areas. Twenty (20) clock hours of supervised teacher aiding in bilingual and/or bilingual special education classrooms.	5	5
BIL 5024	ASSESSMENT AND EVALUATION IN BILINGUAL AND SPECIAL EDUCATION (5) Focus on the equitable assessment of English Learners and special needs students. Exploration of descriptive statistics, measurement theory and tests used to assess language development, intelligence, school achievement, aptitude and social and emotional	5	5

Course	Course Description	Credit Hrs.	Contact Hrs.
	adjustment of English learners and exceptional children. Examination, adaption and development of effective classroom assessments that measure English language proficiency and content area learning. Administration, interpretation and evaluation of a variety of formal and informal assessment instruments. Twenty (20) clock hours of supervised tutoring in bilingual classrooms.		

BIL 5025	LINGUISTICS AND LANGUAGE DIVERSITY (3) Survey of language diversity found in US public schools. Teaching and learning strategies for meeting multiple linguistic development needs.	3	3
BIL 5026	RESEARCH IN BILINGUAL EDUCATION I (2) Exploration of topics concerning bilingual education, the contemplation and strategies used in literature reviews. APA style application.	2	2
BIL 5027	RESEARCH IN BILINGUAL EDUCATION II (2) Exploration of methodologies used in research, data collections and tools. Review of IRB requirements. Implementation of research project in the field of bilingual education. Prerequisite(s): BIL 5026 or consent of department.	2	2
BIL 5028	RESEARCH IN BILINGUAL EDUCATION III (2) Exploration of data analysis process and tools. Focus on final write up of thesis and publication formatting process. Prerequisite(s): BIL 5026 and BIL 5027 or consent of department.	2	2
BIL 5050	STUDIES IN CROSS CULTURAL EDUCATION (3) The role of culture in the United States educational system. Examination of behavioral expectations and learning styles of students of different cultural backgrounds. Analysis of the impact that cultural diversity has on the development of educational programs. 20 hours of tutoring culturally and linguistically diverse classrooms. Prerequisite: Consent of the department.	3	3
BIL 5100	TEACHING ESL: THEORETICAL FOUNDATIONS (3) Exploration of second language learning and acquisition theories as they pertain to ESL instruction. Sociolinguistic and sociocultural issues related to the teaching of English as a second language are also investigated. 20 hours of tutoring in an ESL classroom. Prerequisite: BIL 5700/470 or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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BIL 5116	<p>STUDENT TEACHING IN ELEMENTARY EDUCATION GRADES 1 THROUGH 6, SEMESTER II (6)</p> <p>Off campus placement in a primary classroom (1-3) for half the semester and an intermediate classroom (4-6) for half the semester. University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on site or on campus. Up to 6 credit hours may be taken with the student teaching but may not include required professional education courses.</p> <p>Prerequisites: ELED 5115; completion of all required professional educations coursed; consent of the department; passing score on the Illinois content Area test.</p>	6	3
BIL 5150	<p>FOUNDATIONS OF LITERACY IN LINGUISTICALLY DIFFERENT CLASSROOMS (3)</p> <p>Theoretical foundations for literacy instruction of linguistically and culturally diverse student populations. Includes exploration of multicultural literature for children and young adults.</p> <p>Prerequisite: BIL 3100/365 and consent of department.</p>	3	3
BIL 5230	<p>READING AND LANGUAGE ARTS IN THE BILINGUAL CLASSROOM /FIELD (3)</p> <p>Methods and materials for teaching reading, writing and language arts to P-12 students whose primary language is Spanish. Emphasis on the examination of linguistic and cultural factors affecting the teaching of reading to English language learners. Fifteen clock hours of field-based experience.</p> <p>Prerequisite: BIL 2000/200, ELED 4180/308 and admission to the College of Education.</p>	3	3
BIL 5240	<p>LANGUAGE AND LEARNING (3)</p> <p>Overview of English language structure and use, including phonology, morphology, syntax, semantics and pragmatics. Emphasis on topics useful to teachers of English language learners. Fifteen (15)clock hours of field-based experience.</p>	3	3
BIL 5300	<p>METHODS AND MATERIALS FOR TEACHING SCIENCE AND SOCIAL SCIENCES IN BILINGUAL PROGRAMS / FIELD (3)</p> <p>Approaches, methods, strategies and materials for instruction of Science, technology and society (including earth and space science, the life sciences, the physical sciences, and the environmental sciences) and Social Sciences (including history, geography, economics, political science, sociology, anthropology, psychology, and archaeology) of children in bilingual education classrooms. Development of a thematic unit. Twenty-five clock hours of supervised tutoring in bilingual classrooms.</p> <p>BIL 2000/200 and admission to the College of Education or consent of department. Proficiency in English and Spanish.</p>	3	3
BIL 5350	<p>METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE /FIELD (3)</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Techniques, methods, and materials for teaching English as a second language. Development of a unit and lesson plans appropriate for limited English proficient children. 25 hours of supervised tutoring in ESL classrooms.</p> <p>Prerequisite: ENG 5338/338G or BIL 5240/340G; BIL 5100/365G or consent of the department. Admission to the College of Education.</p>		
BIL 5400	<p>FIELD PRACTICUM IN BILINGUAL ELEMENTARY EDUCATION /FIELD (3)</p> <p>Supervised hands-on experience in a bilingual elementary classroom designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes: classroom management, school policies and rules, teaching strategies and technology. One hundred clock hours field experience. To be taken the long semester prior to student teaching.</p> <p>Prerequisite: Admission to the College of Education; Completion of a minimum of two(2) of the following courses: ELED 5170/307G, READ 5280/308G, BIL 5300/331G, 5350/378G and concurrent enrollment in the remaining; consent of the department.</p>	3	3
BIL 5450	<p>STUDENT TEACHING IN BILINGUAL EDUCATION / FIELD (6)</p> <p>Off-campus placement in a primary classroom (K-3) and an intermediate (4-6) or upper grade (7-8) classroom. One of the two placements must be a bilingual classroom. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. The course requires an impact on Student Learning study as a Capstone Project.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the concentration, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
BIL 5700	<p>HISTORY AND PHILOSOPHY OF BILINGUAL EDUCATION (3)</p> <p>Introduction to the philosophical, historical and pedagogical foundation of bilingual education, and the study of the political, social, historical, philosophical, and economic implications for bilingual education. Ten hours of supervised teacher aiding in bilingual classrooms required for certified teachers who are currently working in a non-Bilingual classroom; fifteen hours of supervised teacher aiding in bilingual classrooms required for graduate students working for initial certification. Writing emphasis course.</p> <p>Prerequisite: Consent of department</p>	3	3

BIL 5720	EVALUATION, ASSESSMENT AND TESTING FOR LANGUAGE MINORITY TEACHERS (3) Issues in nondiscriminatory evaluation, assessment and testing of linguistic, academic, cognitive and social achievement. Instruction, assessment and documentation strategies, tools and computer based models at the local, state and national levels will be considered. Construction and presentation of a field-based case study. 20 hours of tutoring in culturally	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	and linguistically diverse classrooms. Prerequisites: BIL 5700/470 and BIL 5100/365G or consent of the department.		
BIL 5740	BILINGUAL-BICULTURAL EDUCATION CURRICULUM DESIGN (3) Analysis of paradigms, perspectives and domains within curriculum studies and applications to multicultural and bilingual education. Comparison and evaluation of different program models, curriculum patterns and assessment practices. Technology emphasis in web searches and utilization of list serves. Prerequisite: BIL 5700/470 or consent of the department.	3	3
BIL 5760	BEST PRACTICES IN BILINGUAL EDUCATION (3) Focused reflection and classroom-based action research. Re-examination of theories and implementation of action plans to strengthen practice, including multimedia teacher autobiography. Prerequisite: Fluency in English and a second language or consent of the department.	3	3
BIL 5770	PLANNING AND SUPERVISION OF BILINGUAL-BICULTURAL EDUCATION PROGRAMS (3) Concepts, planning, implementation, and evaluation of programs in bilingual/bicultural education. Includes problems in supervision. Prerequisite: BIL 5700/470, 5740/474, 5760/476 or consent of the department.	3	3
BIL 5800	MASTER'S THESIS/PROJECT (3) Supervised research and writing of thesis or project for master's degree in bilingual education. Prerequisite: Completion of all required graduate courses and consent of the department.	3	3

BIL 5860	STUDENT TEACHING IN OWN CLASSROOM / FIELD (6)	6	6
	<p>Sixteen week clinical supervision of teaching internship in an elementary bilingual classroom. Five full days per week and seminar. The course requires an Impact on Student Learning study as a Capstone Project.</p> <p>Prerequisites: Completion of all teacher certification and bilingual ESL approval requirements.</p>		

Biology (BIOL)

Course	Course Description	Credit Hrs.	Contact Hrs.
BIOL 1000	FRESHMAN SEMINAR: BIOLOGY (1)	1	1
	<p>Introduce students to the expectations of the university. Instruction will be given in how to navigate to a successful degree and avoid pitfalls of university life. The promotion of effective study skills, identify and explore campus resources, promotion of effective communication skills to assist in acclimation to university life. For Biology majors with freshman standing.</p>		
BIOL 1070	BIOLOGICAL SCIENCE SURVEY I LECTURE AND LABORATORY /4/ (3)	3	4
	<p>Basic biological concepts with an emphasis on plants, including the structure and function of cellular components, tissues, and organs; mitosis, meiosis, and heredity; life history survey of selected groups of plants including the reproduction of flowering plants. Credit not given for both BIOL 1070 and BIOL 1510. Face-to-face and/or hybrid sections offered; additional course fee. IAI: L1 901L</p>		
BIOL 1080	BIOLOGICAL SCIENCE SURVEY II LECTURE AND LABORATORY /4/ (3)	3	4
	<p>A survey of biological science with an emphasis on the metabolism, reproduction and evolution of animals. Biological issues with personal and social implications and the development of scientific literacy are integrated into the course. Labs emphasize scientific inquiry. Face-to-face sections and hybrid sections offered; additional course fees.</p>		
BIOL 1092	ILLINOIS BIOLOGY TEACHER CERTIFICATION REVIEW (0)	0	1
	<p>Preparation for the State Teacher Certification examination in Science. Credit does not count toward graduation.</p> <p>Prerequisite: BIOL 1092 should be taken within the year prior to student teaching.</p>		

BIOL 1130	SCIENCE IN THE SERVICE OF SOCIETY (3) Study of the intersection between science and a major social issue using rigorous research tools. Emphasis will be placed on a multidisciplinary approach to collecting and evaluating information to understand the chosen social issue. Students will build their analytical skills by engaging the larger community in an authentic project of local interest. Prerequisite: Admission to the university.	3	4
BIOL 1150	HUMAN BIOLOGY (3) The human species will be examined in terms of energy flow, organ systems, and evolution. IAI: L1 904	3	3
BIOL 1190	HUMANITY AND NATURE LECTURE AND LABORATORY/4 (3) An introduction to the principles of ecology, including adaptations of organisms to their environment and interactions among organisms. Focus will be on how the actions of	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	humans affect other organisms and the environment we live in. Field trips to representative habitats within the Chicago region. (Enrichment core course.) IAI: L1905L		
BIOL 1230	BIOLOGY OF REPRODUCTION (3) A survey of the diversity of reproductive patterns in living things, including reproductive strategies and sexual behavior.	3	3
BIOL 1250	BIOLOGY OF SEXUALLY TRANSMITTED DISEASES (3) Basic biological concepts relating to parasitism by viruses, bacteria, fungi, protozoans, and insects associated with sexually transmitted diseases. This information will provide the basis for discussions of available therapeutic treatment and the eventual eradication of these diseases.	3	3
BIOL 1300	URBAN ENVIRONMENTAL SCIENCE (3) Biological and ecological principles underlying environment science. Highlights impact on urban populations and urban ecosystem services. Labs include environmental quality assessment and monitoring.	3	4
BIOL 1400	BIOTECHNOLOGY AND HUMAN AFFAIRS (3) The impact of the biotechnology revolution on society will be examined, especially the ways in which molecular genetics presents us with ethical, legal, economic, and social dilemmas. (Enrichment core course.) IAI: L1 905	3	3

BIOL 1510	<p>CONCEPTS OF BIOLOGY /4 (3)</p> <p>Biology for future elementary teachers. Basic biological concepts with emphasis on plants; experience with curricular materials and scientific practices amenable to teaching preK - 5 science. Face-to-face and/or hybrid sections offered. Credit not given for both BIOL 1510 and BIOL 1070. Additional course fee.</p> <p>Prerequisite(s): Fifteen hours of college credits and enrollment as an education major.</p>	3	4
BIOL 1600	<p>INTRODUCTION TO BIOLOGICAL PROFESSIONS (1)</p> <p>Survey of career opportunities of biology professionals employed in education, health, government, industry, environmental, and recreational fields. A review of the skills, training, and education required for the various occupations. May not be used for general education.</p> <p>Prerequisites: BIOL 1710 or consent of department.</p>	1	1
BIOL 1710	<p>INTRODUCTION TO BIOLOGY LECTURE/DISCUSSION/LABORATORY /6 (4)</p> <p>Diversity of prokaryotes and the early evolution of life on earth; classification of organisms; a systems biology approach of major concepts of biology: cell structure and function, metabolism, homeostasis, genetics, and biodiversity. Additional course fee.</p>	4	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Enrollment as a biology, chemistry and physics, or pre-physical therapy major; or the consent of the department.		
BIOL 1720	<p>INTRODUCTORY HORTICULTURE (3)</p> <p>An introduction to horticulture; emphasis will be on understanding the fundamentals of horticulture and on small scale, backyard and city gardening. Hands-on lab and green house work will complement the lectures. Credit not given for both BIOL 1720 and BOT 1720. Additional course fee.</p>	3	4
BIOL 2001	<p>THE BIOLOGY OF AFRICA (3)</p> <p>Special biological and ecological features of Africa; emphasis on the tropical regions and their relationship to present biological and ecological crisis and potential biological resources. Africa's biological contributions, past and present, to life on earth. (This course satisfies the elective course requirements for the African American Studies major or minor.)</p> <p>Prerequisite: One year of biology.</p>	3	3

BIOL 2010	PLANTS AND HUMAN AFFAIRS (3) Plants and their influence on world cultures. Their impact on religion, medicine, language, civilization, travel and economics. A broadly based course designed for general interest. (Does not count as elective credit for biology majors.) Prerequisite: One semester of college biology.	3	3
BIOL 2011	ANIMALS AND HUMAN AFFAIRS (3) The importance of other animals to humans and effect of humans on other animals. Evolution of humans and other animals, exploitation of animals for food and other commodities, socio-cultural relationships between humans and other animals, and the biomedical importance of other animals to humans. (Does not count as elective credit for biology majors.) Prerequisite: One undergraduate biology course.	3	3
BIOL 2020	ANATOMY & PHYSIOLOGY I LECTURE AND LABORATORY /6 (4) A systemic approach to human anatomy and physiology. Includes lectures on body systems, laboratories on physiological processes, and study of human skeletons and prosected human cadavers. Credit not given for both BIOL 2020 and either PSLY 2040 or ZOOL 2050. Prerequisite(s): ENG 1280/1240, BIOL 1080 or ZOOL 2040, and current enrollment as a pre-nursing major.	4	6
BIOL 2021	ANATOMY & PHYSIOLOGY II LECTURE AND LABORATORY /6 (4) Continuation of BIOL 2020. A systemic approach to human anatomy and physiology.	4	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Includes lectures on body systems, laboratories on physiological processes, and study of human skeletons and prosected human cadavers. Credit not given for both BIOL 2021 and either PSLY 2040 or ZOOL 2050. Prerequisites: BIOL 2020 and current enrollment as a pre-nursing major.		
BIOL 2059	INTRODUCTORY MICROBIOLOGY LECTURE AND LABORATORY /5 (3) Principles of growth and activity in microorganisms. Applications to agriculture, industry, and medicine. (Does not count as elective credit for biology majors.) IAI: NUR 905 Prerequisite(s): ENG 1280/1240, one semester of college biology, and one semester of college chemistry.	3	5

BIOL 2200	INTRODUCTION TO HUMAN SEXUALITY (3) Human sexuality from the biological, physiological, sociological and cultural contexts. Biological processes of sex and their impact on sensuality. Contemporary social norms and values related to sex, placing emphasis on gender roles, and gay, lesbian, bi-sexual, and transgender identities. Team taught. Not accepted for elective credit for biology majors.	3	3
BIOL 2250	URBAN AGRICULTURE, FOOD AND SUSTAINABILITY (3) Introduction to alternative and conventional food systems and policies, types of urban agriculture practices, and the ecological basis of plant and soil components of agriculture. Highlights linkages to human health. Prerequisites: BIOL 1070, 1080, 1300 or 1710; or GEOG 1000, 1100, 1200 or GEOG/SOC 1500.	3	4
BIOL 3040	GENETICS LECTURE/DISCUSSION/ LABORATORY /6 (4) Principles of Mendelian inheritance, chromosome theory, genetic mapping, DNA structure and function, and gene regulation. Writing emphasis course. Additional course fee. Prerequisite(s): MATH 1600, BOT 2050 and ZOOL 2040, or enrollment as a chemistry major; CHEM 1450 and 1460.	4	6
BIOL 3051	CELL BIOLOGY LECTURE / LABORATORY /6 (4) Study of the relationship between cellular structure and function at the molecular level. Prerequisites: MATH 1600, BOT 2050, and ZOOL 2040; or enrollment as a chemistry major. Corerequisites: CHEM 2400 and 2410	4	6
BIOL 3055	EVOLUTIONARY BIOLOGY (3) An investigation into the scope and significance of evolution, including the basic principles	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	and mechanisms of evolution. Discussion of issues currently debated by evolutionary biologists. Prerequisite: BIOL 3040/240 and BOT 2050/205.		
BIOL 3065	INDIVIDUAL TOPICS (2-4) Independent study in an area of biology suited to the student's needs and past training under the supervision of a faculty member. Prerequisite: Advanced undergraduate status in biological science and advance permission of the faculty member.	2	2

BIOL 3072	<p>ECOLOGY LECTURE / LABORATORY /6 (4)</p> <p>Interrelationship between organisms and their environments. Emphasis on writing, data analysis, evolutionary ecology and emergent properties of populations, communities and ecosystems. (Two field trips, additional course fee).</p> <p>Prerequisites: BOT 2050 and ZOOL 2040; MATH 1600.</p>	4	6
BIOL 3690	<p>MICROBIOLOGY LECTURE AND LABORATORY /6 (4)</p> <p>Basic microbiological concepts with emphasis on fundamentals of microbiology and laboratory techniques with applications to molecular microbiology: beginnings of microbial physiology and ecology, classification of microorganisms, bacterial metabolism, growth and genetics, recombinant DNA and genetic engineering interaction between microbes and hosts, applied microbiology. Credit will not be given for both BIOL 2059 and 3690. Additional course fee.</p> <p>Prerequisite(s): BIOL 3051 or CHEM 2450 and 2460 or equivalent.</p>	4	6
BIOL 4015	<p>BIOMETRICS (3)</p> <p>Statistics and related mathematics as currently applied in the biological and health sciences. Includes graphs and tables; descriptive statistics; populations, samples, and inference; hypothesis testing.</p> <p>Prerequisites: BIOL 1710, four additional biology courses at 2000-Level or higher, and MATH 1200.</p>	3	3
BIOL 4035	<p>SEMINAR RESEARCH (1)</p> <p>Instruction in critical reading and understanding of current research literature in the chemical and biological sciences. Utilization of current literature to prepare and carry out a scientifically accurate presentation (publication or meeting talk) of data and results from research endeavors.</p> <p>Prerequisite: 16 credit hours in physical or biological sciences, and consent of the instructor.</p>	1	1
BIOL 4040	<p>GENOMICS AND EVOLUTION (3)</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Overview of evolutionary genetics in light of the genomics era. Designed to give students a broad background in a new kind of evolutionary analysis that is driven largely by technology.</p> <p>Prerequisites: BIOL 3040 or consent of instructor.</p>		

BIOL 4170	IMMUNOLOGY LECTURE AND LABORATORY/6 (4) Basic immunological concepts and laboratory techniques with applications to biological research: chemistry of antigens, antibodies and antigen-antibody reactions; cellular immunology including antibody formation, hypersensitivity, immunogenetics, autoimmunity, and transplantation immunology, and immunity and immunopathology including the immunological mechanisms of disease. Credit will not be given for both BIOL 4170 and 5170. Prerequisites: BIOL 3040 and BIOL 3051, or equivalents; or consent of the instructor.	4	6
BIOL 4280	MICROBIAL GENETICS LECTURE AND LABORATORY /6 (4) Molecular basis of inheritance in viruses, bacteria, and fungi. The role of microbes in understanding basic genetic principles and their roles in genetic engineering. Laboratory techniques with application to biological research. Credit not given for both BIOL 4280 and 5280. Additional course fee. Prerequisites: BIOL 3040, BIOL 3690; CHEM 2450 and 2460 or equivalent.	4	6
BIOL 4450	TECHNIQUES IN ELECTRON MICROSCOPY LECTURE AND LABORATORY /6 (4) Instrument and specimen preparation theory for both transmission (TEM) and scanning (SEM) electron microscopy. Preparation of specimens for examination in both TEM and SEM. Basic darkroom and digital image presentation. Substantial work outside of class time is required. Credit will not be given for both Biol 4450/345 and any of the following courses BIOL 340, 341, 441, 445. Prerequisites: For science majors only. Completion of 12 hours in the major; BIOL 3051 and permission of the instructor.	4	6
BIOL 4510	MOLECULAR BIOLOGY /4 (3) Chemistry of major cellular macromolecules and their role in the structure and function of the cell. Emphasis on the nucleic acids, protein synthesis and molecular genetics, including genetic bioengineering. Prerequisites: BIOL 3040 or BIOL 3051, CHEM 2450 and 2460	3	4
BIOL 4610	SELECTED TOPICS IN BIOLOGY (1-4) In-depth study of selected topics in the biological sciences. Subject matter for each selected topic will be determined by instructor and student interests. Course may be	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	repeated under different topics.		

BIOL 4630	<p>METHODS OF TEACHING BIOLOGICAL SCIENCES IN SECONDARY SCHOOLS (GRADES 6-12) /FIELD (3)</p> <p>Methods of teaching biological sciences in high school grades 9-12 and middle school grades 6-8. Thirty hours of tutoring middle grade and high school grade students.</p> <p>Prerequisite: Admission to College of Education, ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306); and consent of the department.</p> <p>Co-requisite: CAS 2630/363.</p>	3	3
BIOL 4690	<p>INDEPENDENT STUDY OF BIOLOGICAL SCIENCE (2-4)</p> <p>Independent research suited to the student's needs and past training under the direction of a faculty member.</p> <p>Prerequisite: Permission of the faculty sponsor and the undergraduate advisor, subject to departmental approval.</p>	2	2
BIOL 4715	<p>READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY AND PRACTICE (1)</p> <p>Reading and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. May be taken for up to 3 credit hours by Secondary Education students. Other Biology undergraduates may take for one credit hour.</p> <p>Prerequisites: Consent of Department.</p>	1	1
BIOL 4720	<p>INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED BIOLOGY (3)</p> <p>Variety of biology topics appropriate for implementation in the high school classroom. Pedagogical implication of inquiry-based instructional materials and use of modern equipment in the classroom. BIOL 4720 can be taken for 3 credits. BIOL 5720 can be taken three times for a total of 9 credits.</p> <p>Prerequisite: Consent of the department. Does not count toward M.S. Biology degree and does not replace 2 upper level biology course requirements for M.A.T.</p>	3	3
BIOL 4725	<p>PEDAGOGICAL CONTENT KNOWLEDGE IN BIOLOGY (6)</p> <p>In depth examination and practice of Pedagogical Content Knowledge associated with core biology topics taught in high schools. A formal action research project conducted with students in grades 6-12 is required. Additional course fee.</p> <p>Prerequisites: Consent of the department.</p>	6	6
BIOL 4730	<p>ENVIRONMENTAL BIOLOGY (4)</p>	4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>The biological consequences of overpopulation, depletion of natural resources, pollution, and environmental degradation to plants and animals, including humans. Discussion of both the theoretical and practical aspects of conservation of plants and animals. Combining theoretical concepts from ecology, genetics, evolution, and chemistry to evaluate the possible solutions to these problems.</p> <p>Prerequisites: BIOL 3072, CHEM 2450 and 2460.</p>		
BIOL 4750	<p>STUDENT TEACHING: SECONDARY LEVEL BIOLOGY (6)</p> <p>Off campus placement in secondary level school. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. A student learning focused senior thesis/capstone project will be completed.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
BIOL 4801	<p>CAPSTONE FOR BIOLOGY (4)</p> <p>Activities leading to a senior thesis: searching the biological literature, reading original research articles, formulating hypotheses and designing experiments, utilization of modern techniques to collect and analyze data and presentation of research in a written thesis.</p> <p>Prerequisite(s): BIOL 3040, BIOL 3051 and BIOL 3072.</p>	4	6
BIOL 4900	<p>RECOMBINANT DNA LABORATORY LECTURE AND LABORATORY /6 (3)</p> <p>Application of modern techniques used in molecular biology and analysis of mammalian genomes using state-of-the-art methodologies such as PCR and DNA sequencing.</p> <p>Prerequisite: BIOL 4510/351 and CHEM 3020/302.</p>	3	6
BIOL 4910	<p>INTERNSHIP IN ENVIRONMENTAL BIOLOGY (3-6)</p> <p>Field experience at an off-campus site guided by a faculty advisor and a site supervisor. Sites, including zoos, area park districts, botanical gardens, nature preserves, and laboratories, determined by availability.</p> <p>Prerequisite: Consent of the department.</p>	3	3

BIOL 4920	INTERNSHIP IN CELLULAR AND MOLECULAR BIOLOGY (3-6) Field experience in cellular/molecular biology at an off-campus site.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
BIOL 4930	INTERNSHIP IN MICROBIOLOGY (3-6) Opportunity to obtain practical biologically-related research/quality control experience by working under faculty direction as an intern with local, state, federal or private agencies. Written report will be submitted for evaluation. Prerequisite: Upper division standing, 2.7 (or better) GPA overall and in major, consent of the department.	3	3
BIOL 4935	BIOTECHNOLOGY I (4) Integrated approach of Biotechnology with emphasis on genetic engineering for practical applications: Genetic Engineering of microbes, agricultural plants, animals. Medical, Environmental and Forensic Biotechnology; Socio-economic issues of Biotechnology. Prerequisite: BIOL 3040/240 or consent of the department.	4	6
BIOL 5015	BIOMETRICS (3) Statistics and related mathematics as currently applied in the biological and health sciences. Includes graphs and tables; descriptive statistics; populations, samples, and inference; hypothesis testing; demography and vital statistics. Prerequisite: BIOL 1710/171, 2550/255 and four additional biology courses and MATH 1200/162.	3	3
BIOL 5035	SEMINAR IN RESEARCH (1) Instruction in critical reading and understanding of current research literature in the chemical and biological sciences. Utilization of current literature to prepare and carry out a scientifically accurate presentation (publication or meeting talk) of data and results from research endeavors. Prerequisite(s): 16 credit hours in physical or biological sciences and consent of the instructor.	1	1

BIOL 5040	GENOMICS AND EVOLUTION (3) Overview of evolutionary genetics in light of the genomics era. Designed to give students a broad background in a new kind of evolutionary analysis that is driven largely by technology. Prerequisites: BIOL 3040/240 or consent of instructor.	3	4
BIOL 5070	ENVIRONMENTAL IMPACT ANALYSIS LECTURE AND LABORATORY/8 (4) Practical field and laboratory-based skills for assessing environmental impact in an urban setting using EPA protocols. Preparation of an Environmental Impact Statement for a local project selected in consultation with local environmental professionals and citizen groups.	4	8

Course	Course Description	Credit Hrs.	Contact Hrs.
	Experienced professionals will speak on legal, ecological, consulting and other aspects of environmental impact analysis. Lab fee. Prerequisite: CHEM 1550/155, one semester of biology, and consent of the instructor.		
BIOL 5090	CRITICAL ANALYSIS OF RESEARCH LITERATURE (3) Presentation, critique, and discussion of life sciences research articles from a collection provided by Biology Graduate Faculty. Prerequisites: Admission to MS Program in Biological Sciences.	3	3
BIOL 5100	METHODOLOGY OF RESEARCH (3) Investigation of the nature of scientific research through selected readings, bibliographic compilation and written literature reviews. Term paper required. Prerequisite: Admission to the Master's degree program or consent of the instructor.	3	3
BIOL 5120	HUMAN GENETICS (3) Molecular and cellular basis of human heredity. Prerequisite: BIOL 3040/240; CHEM 4302/302 or equivalent.	3	3
BIOL 5169	INDEPENDENT STUDY IN BIOLOGICAL SCIENCES (2-4) Individualized program in advanced biology suited to the students needs and past training. Summary paper required. (Hours to be arranged.) Prerequisite: Consent of the department.	2	2

BIOL 5170	IMMUNOLOGY LECTURE AND LABORATORY/6 (4) Basic immunological concepts and laboratory techniques with applications to biological research: chemistry of antigens, antibodies and antigen-antibody reactions; cellular immunology including antibody formation, hypersensitivity, immunogenetics, autoimmunity, and transplantation immunology, and immunity and immunopathology including the immunological mechanisms of disease. Credit will not be given for both BIOL 4170/317 and 5170/417. Prerequisite: BIOL 3690/269, CHEM 2510/254 or equivalent.	4	6
BIOL 5190	APPLIED AND ENVIRONMENTAL MICROBIOLOGY/6 LECTURE AND LABORATORY (4) The basic concepts and laboratory techniques in applied and environmental microbiology and their applications to biological research will be emphasized. The roles of microbes in environmental remediation; natural recycling of bioelements. Prerequisite: BIOL 3690/269 or equivalent.	4	6
BIOL 5250	VIROLOGY /6 LECTURE AND LABORATORY (4)	4	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Physical, chemical, and biological characterization of major cellular macromolecules of viruses and their role in the structure and viral functions with emphasis on bacteriophage. Clinical virology and plant viruses of significance to biological research. Application of modern techniques for isolation and biological characterization of bacteriophage. Credit will not be given for both BIOL 4250/325 and 5250/425. Prerequisite: BIOL 3690/269 and CHEM 2510/254 or equivalent.		
BIOL 5280	MICROBIAL GENETICS /6 LECTURE AND LABORATORY (4) Molecular basis of inheritance in viruses, bacteria, and fungi. The role of microbes in understanding basic genetic principles and their roles in genetic engineering. Laboratory techniques with application to biological research. Credit will not be given for both 4280/328 and 5280/428. Prerequisite: BIOL 3040/240 and 3690/269; CHEM 2510/254 or equivalent.	4	6
BIOL 5300	CONSERVATION BIOLOGY/4 (3) Theory and techniques used for protection of biological diversity. Emphasis on local environments and management practices. Preparation of management plans. Invited speakers include local conservation biologists. Field trips to local preservation and restoration sites. Prerequisite: BIOL 2550/255 and either BIOL 3055/355 or 5550/405.	3	3

BIOL 5450	TECHNIQUES IN ELECTRON MICROSCOPY LECTURE AND LABORATORY/6 (4) Instrument and specimen preparation theory for both transmission (TEM) and scanning (SEM) electron microscopy. Preparation of specimens for examination in both TEM and SEM. Fundamentals of X-ray microanalysis and basic darkroom and digital image presentation. Substantial work outside of class time is required. Credit will not be given for both Biol 445 and any of the following courses 340, 345, 341, and 441. Prerequisite: Biol 3050/250 and permission of instructor.	4	6
BIOL 5500	CHEMICAL BIOLOGY (3) Theories and techniques used in the biochemical and biophysical analysis of macromolecule structure and function. Topics include protein chemistry, protein folding and thermodynamics, membrane chemistry and biophysics. Biochemical and biophysical methods will include, FRET, and FRET analysis, PRIM, mass spectrometry, flurescent spectroscopy, and classical biochemical techniques to study protein-protein interactions.	3	4
BIOL 5510	MOLECULAR BIOLOGY /4 (3) Chemistry of major cellular macromolecules and their role in the structure and function of the cell. Emphasis on the nucleic acids, protein synthesis and molecular genetics, including genetic bioengineering.	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: BIOL 3050/250, CHEM 2510/254.		
BIOL 5520	CELL BIOLOGY LABORATORY/6 (3) Application of modern techniques to the study of cell biology, with emphasis on methods for isolation and analysis of cellular organelles and macromolecules. Prerequisite: BIOL 3050/250.	3	6
BIOL 5550	ADVANCED EVOLUTION (3) Principles, facts, and the theories of organic evolution. Prerequisite: BIOL 3040/240; BOT 2050/205; or consent of the department.	3	3
BIOL 5600	SELECTED TOPICS IN BIOLOGY (1-4) In-depth study of selected topics in the biological sciences. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics.	1	1

BIOL 5700	GRADUATE RESEARCH (0-6) Investigation of a laboratory, field, or library research topic in biology in preparation of a master's thesis under the direction of a faculty member. Prerequisite(s): BIOL 5090, BIOL 5100/410 and approval of Thesis Advisor.	0	1
BIOL 5710	CONTINUING EDUCATION TOPICS FOR BIOLOGY TEACHERS (1-3) Study of selected topics in the biological sciences including subject matter, curricula, teaching materials, and/or teaching strategies. Course may be repeated under different topics. Prerequisites: Standard Teaching Certificate. Cannot be used to satisfy requirements for certification or for a master's degree.	1	1
BIOL 5715	READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY AND PRACTICE (1) Reading and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. Presentation and term paper is required. May be taken for up to 3 credit hours by Secondary Education students and for 1 credit hour by Biology graduate students. Cannot be used to satisfy requirements for two upper level biology course for MAT degree. Prerequisites: Consent of Department.	1	1
BIOL 5720	INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED BIOLOGY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Variety of biology topics appropriate for implementation in the high school classroom. Pedagogical implication of inquiry-based instructional materials and use of modern equipment in the classroom. BIOL 4720 can be taken for only 3 credits. BIOL 5720 can be taken three times for a total of 9 credits. Prerequisite: Consent of the department. Does not count toward M.S. Biology degree and does not replace 2 upper level biology course requirement for M.A.T.		
BIOL 5725	PEDAGOGICAL CONTENT KNOWLEDGE IN BIOLOGY (6) In depth examination and practice of Pedagogical Content Knowledge associated with core biology topics taught in high schools. A formal action research project conducted with students in grade 6-12 is required. Additional course fee. Prerequisites: Consent of the department.	6	6

BIOL 5730	ENVIRONMENTAL BIOLOGY (4) The biological consequences of overpopulation, depletion of natural resources, pollution, and environmental degradation to plants and animals, including humans. Discussion of both the theoretical and practical aspects of conservation of plants and animals. Combining theoretical concepts from ecology, genetics, evolution, and chemistry to evaluate the possible solutions to these problems. Prerequisite: BIOL 3055/355 and CHEM 2500/251.	4	4
BIOL 5740	ETHICS IN LIFE SCIENCE RESEARCH (3) Students will receive training in broad aspects of life science research ethics. This course covers ethical and philosophical issues involved in research in the areas of Biology, Chemistry and Physics. At the end of this course students will be familiar with the regulatory aspects of conducting responsible research, human subject's research ethics, and ethical treatment of animals in research and data handling and manipulation. Prerequisites: Master's students should be fully admitted into the Master's program in the Biological Sciences and have successfully completed one elective course in their designated track. Students must have access to computer resources in order to complete on-line assignments.	3	3
BIOL 5810	HUMAN BIOLOGY FOR SOCIAL WORK (1) A self-guided study of human biology for graduate students in the social work program. Cannot be used for credit toward a master's degree in social work or biology. Prerequisite: Admission to or pending application to Master's in Social Work program.	1	1
BIOL 5900	RECOMBINANT DNA LABORATORY/6 (3) Application of modern techniques used in molecular biology and analysis of mammalian genomes using state-of-the-art methodologies such as PCR and DNA sequencing.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: BIOL 4510/351 and CHEM 3020/302.		
BIOL 5935	BIOTECHNOLOGY I (4) Integrated approach of Biotechnology with emphasis on genetic engineering for practical applications: Genetic Engineering of microbes, agricultural plants, animals. Medical, Environmental and Forensic Biotechnology; Socio-economic issues of Biotechnology. Prerequisite: BIOL 3040/240 or consent of the department.	4	6

Business Laboratotgram (BLP)

Course	Course Description	Credit Hrs.	Contact Hrs.
BLP 3207	BUSINESS LABORATORY INTERNSHIP I (3) First internship in the Cooperative Education Program. Prerequisite: Admitted majors, consent of department.	3	3
BLP 3208	BUSINESS LABORATORY INTERNSHIP II (3) Second internship in the Cooperative Education Program. Prerequisite: Admitted major, Consent of program director.	3	3
BLP 3209	BUSINESS LABORATORY INTERNSHIP III (3) Third internship in the Cooperative Education Program. Prerequisite: Admitted major, Consent of program director.	3	3
BLP 3210	BUSINESS LABORATORY INTERNSHIP (6) Full-time placement or full-time on-the-job entry in private business and/or state, federal, or local government. Students must complete required courses with a C or better. Prerequisite: Admitted major, Consent of program director.	6	6

Botany (BOT)

Course	Course Description	Credit Hrs.	Contact Hrs.
BOT 1720	INTRODUCTORY HORTICULTURE (3) An introduction to horticulture; emphasis will be on understanding the fundamentals of horticulture and on small scale, backyard and city gardening. Hands-on lab and green house work will complement the lectures. Credit not given for both BIOL 1720 and BOT 1720. Additional course fee.	3	4

BOT 2050	BIOLOGY OF ALGAE, PLANTS AND FUNGI /6 LECTURE AND LABORATORY (4) Evolution of structure, reproduction, growth and developmental processes from algae to higher plants and fungi; Physiology of water relations, photosynthesis, plant nutrition, growth substances and flowering; plant propagation and agricultural biotechnology; Ecological adaptations and Ethnobotany. (Writing emphasis course; Additional course fee.) Prerequisite(s): ENG 1280/1240, BIOL 1710 and MATH 1200.	4	6
BOT 4600	SELECTED TOPICS IN BOTANY/1-6 LECTURE AND LABORATORY (1-4) In-depth study of selected topics in botany. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics. Prerequisite: Consent of the department.	1	1
BOT 5600	SELECTED TOPICS IN BOTANY (1-4) In-depth study of selected topics in Botany. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics. Prerequisite: Consent of the department.	1	1
BOT 5620	PLANT PHYSIOLOGY LECTURE AND LABORATORY/6 (4) Physiological processes of plants. Environmental influences. Prerequisite: One year of botany courses and CHEM 3020/302.	4	6

College of Arts and Sciences (CAS)

Course	Course Description	Credit Hrs.	Contact Hrs.
CAS 1250	FRESHMAN HONORS SEMINAR/1-3 (1) Team-building activities, exercises to develop personal and academic skills, and opportunities to build personal relationships for friendship, mutual support, and academic success. Directed readings and group discussions to sharpen students' critical inquiry skills and awareness of current events. May include field trips to various cultural venues. Prerequisite: Receipt of an appropriate University scholarship or admission to the Honors College.	1	1

CAS 2630	CLASSROOM MANAGEMENT (1) Classroom rules and procedures; teacher/student relationships; setting expectations and consequences for students; instructional strategies. Co-requisite: Secondary methods course in the major.	1	1
CAS 4500	LEARNING IN THE DISCIPLINE: THEORY AND PRACTICE (1-2) Integrate educational theory, pedagogy, and practice with content in the disciplines. Course meetings will focus on practical concerns, associated theoretical models and pedagogical content knowledge. Prerequisite: Consent of Department/College.	1	1
CAS 5500	LEARNING IN THE DISCIPLINE: THEORY AND PRACTICE (1-2) Integrate educational theory, pedagogy, and practice with content in the disciplines. Course meetings will focus on practical concerns, associated theoretical models and pedagogical content knowledge. Prerequisite: Consent of Department/College.	1	1

Continuing Education (CE)

Course	Course Description	Credit Hrs.	Contact Hrs.
CE 3010	CONTINUING EDUCATION WORKSHOPS WITH SPECIAL TOPICS (1-6) Workshops on special topics of interest to professionals in various occupations. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.	1	1
CE 3110	CONTINUING EDUCATION TOPICS IN THE SOCIAL SERVICES (1-6) Special topics of interest to professionals in social services related occupations. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.	1	1
CE 3130	CONTINUING EDUCATION TOPICS FOR BUSINESS PROFESSIONALS (1-6) Special topics of interest to professionals in business related occupations. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.	1	1

CE 3140	<p>CONTINUING EDUCATION FOR TEACHERS (1-6)</p> <p>Special topics of interest to professionals in teaching and teaching related occupations. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.</p>	1	1
CE 3150	<p>CONTINUING EDUCATION FOR MATHEMATICS TEACHERS (1-6)</p> <p>Special topics of interest to educators related to the teaching of mathematics. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.</p>	1	1
CE 3160	<p>CONTINUING EDUCATION FOR SCIENCE TEACHERS (1-6)</p> <p>Special topics of interest to educators related to the teaching of science Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The course may be repeated to a maximum of six credits.</p>	1	1
CE 3170	<p>CONTINUING EDUCATION FOR CHILD CARE PROVIDERS (1-6)</p> <p>Special topics of interest to professionals in child care related occupations. Because of the varying nature of its content this course is not intended to satisfy the degree requirements or certification requirements of any academic program at Chicago State University. The</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	course may be repeated to a maximum of six credits.		

Conflict Resolution Mediation (CFR)

Course	Course Description	Credit Hrs.	Contact Hrs.
CFR 4000	<p>INTRODUCTION TO PEACEMAKING STUDIES (2)</p> <p>Designed to introduce the student to the major theoretical perspectives that inform dispute resolution and mediation. Examines key issues including violence, oppression, social justice, peace studies, and the dynamics of reconciliation and forgiveness. Provides the student with an overview of the intervention methods for dealing with conflict at the interpersonal and group level to include cultural diversity and non-Western cultural and community contexts.</p> <p>Prerequisites: Junior Standing</p>	2	2
CFR 4100	<p>THE MEDIATION PROCESS (3)</p> <p>Common U.S. models of mediation (evaluative, facilitative, and transformative) with emphasis given to the facilitative model. Provides an overview of the theoretical and practical aspects of the mediation process. Participants will learn a step-by-step process to conduct mediations and will practice fundamental dispute resolution skills such as listening, reframing, summarizing, problem-solving, and creating a safe, non-threatening environment. Through lecture, discussion, video simulations and interactive exercises, and role plays participants will gain a functional knowledge of the power and practice of mediation.</p> <p>Prerequisites: CFR 4000</p>	3	3
CFR 4250	<p>CONFLICT RESOLUTION (3)</p> <p>Survey of key conflict resolution themes, theories, practices, and intervention methods.</p> <p>Prerequisites: CFR 4000</p>	3	3
CFR 4900	<p>INTERNSHIP IN MEDIATION (4)</p> <p>Supervised experience in mediation practice. Students integrate theory, knowledge, and practice in culminating experience of conflict resolution program. One hundred twentytwo clock hours for 4 credit hours.</p> <p>Prerequisites: CFR 4000, 4100, 4250 and 6 credit hours from the list of electives below.</p>	4	4

Chemistry (CHEM)

Course	Course Description	Credit Hrs.	Contact Hrs.
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CHEM 1000	CHEMICAL CALCULATIONS LECTURE AND DISCUSSION/2 (1) Problem solving skills for the first course in general chemistry. Co-requisite: Concurrent enrollment in college chemistry.	1	2
CHEM 1010	PRACTICAL SKILLS FOR SUCCESS IN SCIENCE (1) Time management, goal setting, test taking strategies, electronic communication, understanding academic and career options, campus resources and policies, history and traditions of CSU, and use of effective oral and written language skills. Credit will not be given for both CHEM 1010/116 and CSU 0900/090. Prerequisites: Must be an entering freshmen science student or sophomore transfer science student.	1	1
CHEM 1050	INTRODUCTION TO GENERAL AND ORGANIC CHEMISTRY /8 LECTURE AND LABORATORY (5) Introductory survey in general and organic chemistry for nursing and allied health majors. Additional course fee. Prerequisite(s): Any college-level MATH course.	5	8
CHEM 1092	ILLINOIS CHEMISTRY TEACHER CERTIFICATION REVIEW (1) Preparation for the State Certification Examination in Science. Pass or Fail grade awarded. Credit does not count toward graduation. Prerequisite: CHEM 3650/365; co-requisite CHEM 4630/363.	1	1
CHEM 1300	ESSENTIALS OF CHEMISTRY I LECTURE AND LABORATORY/6 (4) Introductory general chemistry and beginning organic chemistry. IAI: PI 902L Prerequisite(s): Any college-level MATH course.	4	6
CHEM 1301	ESSENTIALS OF CHEMISTRY II LECTURE AND LABORATORY/6 (4) Continuation of introductory organic chemistry and fundamentals of biological chemistry. Prerequisite(s): CHEM 1300/130 and any college-level MATH course.	4	6
CHEM 1400	GENERAL CHEMISTRY I LECTURE (3) Atomic theory, stoichiometry, concentration units, gas laws, thermochemistry, properties of elements, bonding, oxidation-reduction, and states of matter. Credit may not be earned for CHEM 1400 and CHEM 1550. Students should complete CHEM 1400/1410	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>and 1450/1460 at the same school if planning to transfer, since topics are covered in different orders by different schools.</p> <p>Prerequisites: One year of high school chemistry or CHEM 1300.</p> <p>Co-requisites: MATH 1200 or MATH 1250 and CHEM 1410 (as applicable).</p>		
CHEM 1410	<p>GENERAL CHEMISTRY I LABORATORY (1)</p> <p>Selected experiments designed to reinforce concepts covered in Chemistry 1400. Focus is on an introduction to chemical problem solving and the basic operations of the chemical laboratory. Credit may not be received for Chemistry 1550 and Chemistry 1410.</p> <p>Corequisites: CHEM 1400</p>	1	3
CHEM 1450	<p>GENERAL CHEMISTRY II LECTURE (3)</p> <p>Continuation of CHEM 1400. Properties of solutions, descriptive chemistry, kinetics, equilibrium, acid base theory, electrochemistry, nuclear chemistry and organic chemistry. Credit may not be earned for CHEM 1450 and CHEM 1560.</p> <p>Prerequisites: CHEM 1550/155 or CHEM 1400 Corequisites: MATH 1210/163 and CHEM 1460</p>	3	4
CHEM 1460	<p>GENERAL CHEMISTRY II LABORATORY (1)</p> <p>Selected experiments designed to reinforce concepts covered in Chemistry 1450. Topics include kinetics, qualitative and quantitative chemical analysis of inorganic chemical systems, and experimental design. Credit may not be received for Chemistry 1560 and Chemistry 1460.</p> <p>Prerequisites: CHEM 1550/155 or CHEM 1400 and CHEM 1410 Corequisites: MATH 1210/163</p>	1	3
CHEM 1550	<p>GENERAL CHEMISTRY I LECTURE, RECITATION AND LABORATORY /7 (4)</p> <p>Atomic theory, stoichiometry, concentration units, gas laws, thermochemistry, properties of elements, bonding, oxidation-reduction, and states of matter. Additional course fee. IAI: BIO 906 EGR 961 CHM 911. Prerequisite or Co-requisite: MATH 1200/162 or MATH 1250/171.</p>	4	7
CHEM 1560	<p>GENERAL CHEMISTRY II LECTURE, RECITATION AND LABORATORY /7 (4)</p> <p>Continuation of CHEM 155. Properties of solutions, descriptive chemistry, kinetics, equilibrium, acid-base theory, electrochemistry, nuclear reactions and radiochemistry. Additional course fee. IAI: BIO 907 CHM 912 NUR 907. Prerequisite: CHEM 1550/155 or equivalent.</p>	4	7

CHEM 1600	INTRODUCTION TO THE CHEMICAL PROFESSIONS (1)	1	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Survey of career opportunities for chemical professionals employed in industry, government, education, and health fields. A review of the skills, training, and education required for the various occupations. For majors only.</p> <p>Prerequisite: CHEM 1550/155 or consent of the department</p>		
CHEM 2000	<p>SPECIAL TOPICS IN CHEMISTRY/BIOCHEMISTRY (1-3)</p> <p>In-depth study of topics of current interest in chemistry/biochemistry. May be repeated under different topics for a total of six credit hours.</p> <p>Prerequisite(s): Consent of the department and any college-level MATH course.</p>	1	1
CHEM 2400	<p>ORGANIC CHEMISTRY I LECTURE (3)</p> <p>Detailed examination of carbon compounds based on modern concepts of molecular structure and reaction mechanisms. Laboratory covers synthesis, purification, and characterization of organic compounds. Credit may not be earned for CHEM 2400 and CHEM 2500.</p> <p>Prerequisite(s): CHEM 1560/156 or CHEM 1450 and any college-level MATH course.</p>	3	4
CHEM 2410	<p>ORGANIC CHEMISTRY I LABORATORY (1)</p> <p>Qualitative analysis and determination of the physical constants of organic compounds. Separation, identification, and elementary synthesis of organic compounds. Laboratory techniques - crystallization, distillation, chromatographic and spectroscopic techniques (IR, NMR, MS) - are emphasized.</p> <p>Corequisite: CHEM 2400</p>	1	4
CHEM 2450	<p>ORGANIC CHEMISTRY II LECTURE (3)</p> <p>A continuation of CHEM 2400. An expansion on the structure/property relationships of organic molecules and their use in organic synthesis and an introduction to spectroscopy and other analytical methods for the identification of the structures of organic molecules. Credit may not be earned for CHEM 2450 and CHEM 2510.</p> <p>Prerequisite(s): CHEM 2500/251 or CHEM 2400/240 and any college-level MATH course.</p>	3	4

CHEM 2460	ORGANIC CHEMISTRY II LABORATORY (1) Quantitative and continuing qualitative study of organic reactions and molecular structure through functional group interactions and spectroscopic techniques. Simple and multistep syntheses of organic compounds. A continuation of CHEM 2410. Prerequisites: CHEM 2500/251 or CHEM 2410/241 Corequisite: CHEM 2450	1	4
CHEM 2500	ORGANIC CHEMISTRY I LECTURE, RECITATION AND LABORATORY /8 (4)	4	8

Course	Course Description	Credit Hrs.	Contact Hrs.
	Detailed examination of carbon compounds based on modern concepts of molecular structure and reaction mechanisms. Laboratory covers synthesis, purification and characterization of organic compounds. Additional course fee. IAI: BIO 908 CHM 913 NUR 908. Prerequisite(s): CHEM 1560/156 and any college-level MATH course.		
CHEM 2510	ORGANIC CHEMISTRY II LECTURE AND LABORATORY /7 (4) Continuation of CHEM 2500/251. The laboratory includes use of modern instrumentation including infrared and nuclear magnetic resonance spectroscopy and gas chromatography. Writing emphasis course. Additional course fee. IAI: BIO 909 CHM 914. Prerequisite(s): CHEM 2500/251, consent of the department and any college-level MATH course.	4	8
CHEM 2600	INTRODUCTION TO CHEMICAL LABORATORY PRACTICES (1) Introduction to safe handling practices of chemicals in the laboratory and basic laboratory report writing. Prerequisites: CHEM 1550/155	1	1
CHEM 2620	INDEPENDENT STUDY (1-2) Supervised by faculty members and leading to one or more seminar presentations. Prerequisite(s): Consent of the department and any college-level MATH course.	1	1
CHEM 2630	THESIS RESEARCH I (1-4) Undergraduate research under staff direction. (Students may take up to maximum of four hours to be used toward graduation.) Prerequisite(s): Consent of the department and any college-level MATH course.	1	1

CHEM 2640	CHEMISTRY INTERNSHIP (3-12) Supervised off-campus training in chemistry or a closely related discipline. May be repeated for a total of 12 credit hours. Prerequisite(s): Consent of the department and any college-level MATH course.	3	3
CHEM 2650	ANALYTICAL CHEMISTRY I LECTURE AND LABORATORY /8 (4) Separation and identification of chemical samples, volumetric techniques, preparation of solutions and buffers, spectrophotometric techniques for identification and quantitation. Chromatography including TLC, paper, GC, LC, and HPLC. A group project will be required. Additional course fee. Prerequisites: CHEM 1560/156 and any college-level MATH course.	4	8

Course	Course Description	Credit Hrs.	Contact Hrs.
	Co-requisite: CHEM 2600 or consent of instructor.		
CHEM 2700	INDUSTRIAL CHEMISTRY (3) Chemical industrial processes and their safety and environmental implications. Management of chemical processes including cost analysis, quality control and quality assurance. Prerequisite(s): CHEM 1600/160, 2510/254, and 2650/265; consent of the department and any college-level MATH course.	3	3
CHEM 3010	PHYSICAL CHEMISTRY I LECTURE AND LABORATORY/8 (4) Gas behavior, kinetic molecular theory, thermodynamics, quantum mechanics, and statistical thermodynamics. Credit will not be given in both CHEM 4060/300 and 3010/304. Additional course fee. Prerequisite(s): PHYS 1520/152 or 2220/222; CHEM 2510/254 and 2650/265; MATH 1420/262 or equivalent; consent of the department and ENG 1270/127 or 1230/123.	4	8
CHEM 3240	INORGANIC CHEMISTRY (3) Descriptive and theoretical inorganic chemistry, including atomic and molecular structure, acid-base concepts, nonaqueous solvents, the solid state, coordination compounds, and chemistry of the main group elements. Credit will not be given for both 2400/240 and 2410/241. Prerequisite(s): CHEM 1560/156, and CHEM 2010/201 or CHEM 2500/251 and any college-level MATH course.	3	3

CHEM 3241	INORGANIC CHEMISTRY LECTURE AND LABORATORY/6 (4) Descriptive and theoretical inorganic chemistry, including atomic and molecular structure, acid-base concepts, nonaqueous solvents, the solid state, coordination compounds, chemistry of the main group elements, and synthesis and characterization of inorganic compounds. Credit may not be earned in both CHEM 2400/240 and 2410/241. Additional course fee. Prerequisite(s): CHEM 1560/156, and CHEM 2010/201 or CHEM 2500/251 and any college-level MATH course.	4	7
CHEM 3600	SCIENCE COMMUNICATIONS SEMINAR (1) Instruction in critical reading and understanding of current research literature in the natural sciences. Utilization of current literature to prepare a research proposal and to deliver a professional scientific presentation. Writing Emphasis Course. Prerequisite(s): ENG 1280/128 or 1240/124 and 16 hours in physical or biological sciences.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
CHEM 4100	ADVANCED INORGANIC CHEMISTRY (3) Application of thermodynamics, kinetics and quantum mechanics to the structure and reactivity of inorganic compounds. Prerequisite(s): CHEM 3240/240 or 3241/241; CHEM 4200 or 4205; ENG 1270/127 or 1230/123.	3	3
CHEM 4105	HONORS ADVANCED INORGANIC CHEMISTRY (3) Quantum mechanics applied to inorganic systems, applications of group theory to spectroscopy, molecular modeling of inorganic molecules, advanced organometallic chemistry and spectroscopic analysis, modern inorganic materials, and current topics from the inorganic literature. Literature analysis required. Credit not given for both CHEM 4105 and CHEM 4100. Prerequisite(s): CHEM 3240/240 or CHEM 3241/241; CHEM 4050/304 or CHEM 4200/330; ENG 1270/127 or 1230/123; consent of the department.	3	3
CHEM 4200	MICROSCOPIC PHYSICAL CHEMISTRY (3) Introduction to the chemical applications of quantum mechanics, atomic and molecular structure, and spectroscopy. Credit will not be given for both Chem 4200/330 and Chem 4060/300 or Chem 3010/304. Prerequisite(s): Chemistry 2510/254, Physics 1520/152 or 2220/222, Math 1420/262 or equivalent; consent of department; ENG 1270/127 or 1230/123.	3	4

CHEM 4205	HONORS MICROSCOPIC PHYSICAL CHEMISTRY (3) Introduction to the chemical applications of quantum mechanics, atomic and molecular structure, and spectroscopy. Literature analysis required. Credit not given for both CHEM 4205 and CHEM 4200 or CHEM 4050 or CHEM 4000. Prerequisite(s): PHYS 1520/152 or PHYS 2220/222; CHEM 2510/254; MATH 1420/262 or equivalent; ENG 1270/127 or 1230/123; consent of the department.	3	3
CHEM 4210	MICROSCOPIC PHYSICAL CHEMISTRY LABORATORY (1) Selected experiments in quantum mechanics, spectroscopy, and intramolecular forces; emphasis on computational and laboratory technique, error analysis, and scientific report writing. Writing Emphasis Course. Prerequisite(s): CHEM 2650/265; ENG 1270/127 or 1230/123. Corequisite(s): CHEM 4200/330.	1	4
CHEM 4250	MACROSCOPIC PHYSICAL CHEMISTRY (3) Introduction to the chemical applications of gas behavior, thermodynamics, phase	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	equilibria, kinetics, and statistical thermodynamics. Credit will not be given for both Chem 4250/340 and Chem 4000/305 or Chem 4010/301. Prerequisite(s): Chemistry 2510/254, Physics 1520/152 or 2220/222, Math 1420/262 or equivalent; and consent of department; ENG 1270/127 or 1230/123.		
CHEM 4260	MACROSCOPIC PHYSICAL CHEMISTRY LABORATORY (1) Selected experiments in kinetics, thermochemistry, and statistical thermodynamics; emphasis on scientific report writing, laboratory techniques, and multi-week project labs. Prerequisite(s): CHEM 2650/265; ENG 1270/127 or 1230/123 or consent of department. Corequisite(s): CHEM 4250/340	1	4
CHEM 4300	ADVANCED ORGANIC SYNTHESIS (3) Preparation for organic research in a synthetic laboratory. Utilize synthesis and spectroscopy (for characterization purposes) to develop the chemical insight necessary for advanced work in organic chemistry. Prerequisites: CHEM 2510/254 and CHEM 2650/265; consent of department.	3	6

CHEM 4302	BIOCHEMISTRY I LECTURE AND LABORATORY /7 (4) Chemical constituents of living matter. Function and transformation of chemical substances in biological systems. Chemical and energy changes. Additional course fee. Prerequisite(s): CHEM 2510/254 and ENG 1270/127 or 1230/123.	4	8
CHEM 4303	BIOCHEMISTRY I LECTURE (3) Chemical constituents of living matter. Function and transformation of chemical substances in biological systems. Chemical and energy changes. Credit may not be earned for both CHEM 4302 and CHEM 4303. Prerequisites: CHEM 2510/254 or CHEM 2450; ENG 1270/127 or 1230/123 or consent of the department. Corequisite(s): CHEM 4304	3	3
CHEM 4304	BIOCHEMISTRY I LABORATORY (1) Selected experiments in aqueous solutions / buffers, colorimetry, enzyme kinetics, protein purification / identification techniques and electrophoresis, biochemistry computer modeling with emphasis on scientific experimental designs and write-ups. Additional course fee. Credit may not be earned for both CHEM 4302 and CHEM 4304. Prerequisite(s): CHEM 2510/254 or CHEM 2450 and 2460, CHEM 2600 and ENG 1270/127 or 1230/123.	1	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Corequisite(s): CHEM 4303		
CHEM 4305	HONORS BIOCHEMISTRY I (4) Chemical constituents of living matter. Function and transformation of chemical substances in biological systems. Chemical and energy changes. Literature analysis required. Credit not given for both CHEM 4305 and CHEM 4302. Prerequisite(s): CHEM 2510/254; ENG 1270/127 or 1230/123; consent of department.	4	7

CHEM 4313	BIOCHEMISTRY II (3) Continuation and extension of CHEM 3020/302. Bioenergetics, photosynthesis, anabolic processes including nitrogen fixation, macromolecular systems, molecular genetics, genetic engineering theory and techniques. Current topics from the biochemical literature. Prerequisite(s): CHEM 3020/302 or equivalent; ENG 1270/127 or 1230/123 or consent of the department.	3	3
CHEM 4315	HONORS ADVANCED ORGANIC CHEMISTRY (3) Preparation for organic research in a synthetic laboratory. Utilize synthesis and spectroscopy (for characterization purposes) to develop the chemical insight necessary for advanced work in organic chemistry. Literature analysis required. Credit not given for both CHEM 4315 and CHEM 4300. Prerequisites: CHEM 2510/254; CHEM 2650/265; consent of the department.	3	6
CHEM 4335	SEMINAR IN RESEARCH (1) Instruction in critical reading and understanding of current research literature in the chemical and biological sciences. Utilization of current literature to prepare and carry out a scientifically accurate presentation (publication or meeting talk) of data and results from research endeavors. Prerequisite(s): 16 credit hours in physical or biological sciences, ENG 1270/127 or 1230/123, and consent of the instructor.	1	1
CHEM 4350	THESIS RESEARCH II (1-6) Laboratory or theoretical investigation of a problem in chemical research performed under faculty advisement. Prerequisite(s): One year of organic chemistry, one semester of physical chemistry and consent of the department. ENG 1270/127 or 1230/123 or consent of the department.	1	1
CHEM 4355	SENIOR THESIS (3) Laboratory or theoretical investigation performed under faculty advisement. Course may	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	be repeated for a maximum of six (6) hours. Prerequisite(s): CHEM 2450, ENG 1280/128 or 1240/124, and consent of the department.		

CHEM 4365	ANALYTICAL CHEMISTRY II LECTURE AND LABORATOR/8 (4) Application of instrumental methods in the quantitative, and chemical analysis of materials. Assessment of data quality using statistical measures. Evaluation of techniques in the areas of spectroscopy, chromatography and electrochemistry. Creation of bespoke instrumentation. Additional course fee. Credit not given for both CHEM 3650/365 and CHEM 3660/366. Prerequisites: Chem 2650/265, Chem 2510/254, Physics 1510/151 or 2110/211; ENG 1280/128 or 1240/124.	4	8
CHEM 4375	HONORS ANALYTICAL CHEMISTRY II (4) Molecular identification and spectrometric techniques including: NMR (both 1D and 2D) of carbon and hydrogen, IR, UV/Vis, GC-MS, AA and fluorescence. Separations by chromatography will be continued through investigation of different detectors and separation conditions for GC and HPLC. A capstone project and literature analysis will be required. Credit not given for both CHEM 4375 and CHEM 4365. Prerequisite(s): CHEM 2510/254; CHEM 2650/265; PHYS 1510/151 or 2110/211; ENG 1270/127 or 1230/123; consent of the department.	4	8
CHEM 4398	SELECTED TOPICS IN CHEMISTRY (1-9) Topics of current interest in chemistry. Course may be repeated under different topics for a maximum of six hours. Prerequisite: Consent of the department.	1	1
CHEM 4630	METHODS OF TEACHING CHEMISTRY AND PHYSICAL SCIENCE IN SECONDARY SCHOOLS /FIELD (3) Methods of teaching chemistry and physical science in high school grades 9-12 and middle school grades 6-8. Thirty hours of tutoring middle grade and high school grade students. Credit will not be given for both CHEM 214 and CHEM 4630/363. Prerequisite: Admission to the College of Education, ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306); co-requisite CHEM 0920/092; and consent of the department.	3	3
CHEM 4710	READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY, AND PRACTICE (1) Readings and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. May be repeated for up to 3 credit hours.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Prerequisite: Consent of the department.		
CHEM 4720	<p>INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED CHEMISTRY (3)</p> <p>Variety of chemistry topics and activities appropriate for implementing in the high school classroom. Pedagogical implications of inquiry-based instructional materials and use of modern equipment in the classroom.</p> <p>Prerequisite: Consent of the department.</p>	3	3
CHEM 4730	<p>PEDAGOGICAL CONTENT KNOWLEDGE IN SCIENCE: CHEMISTRY (6)</p> <p>Foundations of chemistry with emphasis on pedagogical content knowledge. Stoichiometry, quantum theory, chemical bonding, kinetics, equilibrium, electrochemistry. Additional course fee.</p> <p>Prerequisites: CHEM 1560/156 or equivalent and consent of the department.</p>	6	6
CHEM 4750	<p>STUDENT TEACHING: SECONDARY LEVEL CHEMISTRY /FIELD (6)</p> <p>Off-campus placement in secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Satisfies university thesis requirement.</p> <p>Prerequisite: CHEM 0920/092 and 4630/363; national percentile ranking of at least 50 on the ACS General Chemistry Examination; passing grade on the oral interview or the prestudent teaching seminar; submission of teaching portfolio to advisor. Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
CHEM 5200	<p>MICROSCOPIC PHYSICAL CHEMISTRY (3)</p> <p>Introduction to the chemical applications of quantum mechanics, atomic and molecular structure, and spectroscopy with an emphasis on problems of biological interest. Credit will not be given for both CHEM 4200/5200 and Chem 4060/300.</p> <p>Prerequisite(s): CHEM 4302/302, PHYS 1520 or PHYS 2220, MATH 1420 or MATH 1400 or equivalent; ENG 1270/127 or 1230/123; consent of the department.</p>	3	3
CHEM 5250	<p>MACROSCOPIC PHYSICAL CHEMISTRY (3)</p> <p>Introduction to the chemical applications of gas behavior, thermodynamics, phase equilibria, kinetics, and statistical thermodynamics with an emphasis on problems of biological interest.</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): CHEM 4302/302, PHYS 1520/152 or 2220/222, MATH 1420/262 or 1400/209 or equivalent; consent of the department. ENG 1270/127 or 1230/123 or consent of the department.		
CHEM 5301	BIOCHEMISTRY I / LECTURE (3) Chemical constituents of living matter. Function and transformation of chemical substances in biological systems. Chemical and energy changes. Credit not given for CHEM 5301 and CHEM 5302 or CHEM 4302. Prerequisites: Undergraduate degree in a physical or biological science, CHEM 2510/254, and consent of instructor.	3	3
CHEM 5302	BIOCHEMISTRY I LECTURE AND LABORATORY /6 (4) Chemical constituents of living matter. Function and transformation of chemical substances in biological systems. Chemical and energy changes. Prerequisite: CHEM 2510/254.	4	8
CHEM 5313	BIOCHEMISTRY II (3) Continuation and extension of CHEM 3020/302. Bioenergetics, photosynthesis, anabolic processes including nitrogen fixation, macromolecular systems, molecular genetics, genetic engineering theory and techniques. Current topics from the biochemical literature. Prerequisite(s): CHEM 3020/302 or equivalent. ENG 1270/127 or 1230/123 or consent of the department.	3	3
CHEM 5335		1	1
CHEM 5365	BIOLOGICAL APPLICATIONS OF ANALYTICAL CHEMISTRY (4) Introduction to analytical and spectrometric techniques: IR, UV/VIS, GC, GC/MS, fluorescence, HPLC, and ICP-MS with an emphasis on their application to problems of biological interest. A capstone project will be required. Additional course fee. Credit will not be given for both CHEM 5365/365G and CHEM 4365/365. Prerequisite(s): CHEM 2510/254; PHYS 1510/151 or 2110/211; ENG 1270/127 or 1230/123; enrollment in the Master's Biology program or consent of the department.	4	8
CHEM 5398	SELECTED TOPICS IN CHEMISTRY (1-9) Topics of current interest in chemistry. Course may be repeated under different topics for a maximum of nine hours. Prerequisite: Consent of the department.	1	1

CHEM 5700	GRADUATE RESEARCH (2-6)	2	10
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Investigation of a laboratory or library research topic in chemical biology in preparation of a master's thesis under the direction of a faculty member. Prerequisites: Must be a Biology graduate student. Permission of faculty sponsor and the graduate advisor; degree candidacy.		
CHEM 5710	READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY, AND PRACTICE (1) Readings and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. May be repeated for up to 3 credit hours. Prerequisites: consent of the department.	1	1
CHEM 5720	INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED CHEMISTRY (3) Variety of chemistry topics and activities appropriate for implementing in the high school classroom. Pedagogical implications of inquiry-based instructional materials and use of modern equipment in the classroom. Course may be repeated for a maximum of nine hours. Prerequisite: Consent of the department.	3	3
CHEM 5730	PEDAGOGICAL CONTENT KNOWLEDGE IN SCIENCE: CHEMISTRY (6) Foundations of chemistry with emphasis on pedagogical content knowledge. Stoichiometry, quantum theory, chemical bonding, kinetics, equilibrium, electrochemistry. Action research project is required. Additional course fee. Prerequisites: CHEM 1560/156 or equivalent and consent of the department.	6	6

Chinese (CHIN)

Course	Course Description	Credit Hrs.	Contact Hrs.
CHIN 1010	ELEMENTARY CHINESE I (3) Oral and written practice of Mandarin Chinese.	3	3

CHIN 1020	ELEMENTARY CHINESE II (3) Continuation of Chinese 1010/101. Prerequisite: CHINESE 1010/101	3	3
CHIN 2010	INTERMEDIATE CHINESE I (3) Study of intermediate grammar and vocabulary in a cultural-based context. First of a sequence of two intermediate courses. Prerequisite: CHIN 1020/102.	3	4
CHIN 2020	INTERMEDIATE CHINESE II (3) Study of intermediate grammar and vocabulary in a cultural-based context. Second of a sequence of two intermediate courses. Prerequisite: CHIN 2020/201.	3	4
CHIN 3990	INDEPENDENT STUDY (3) Independent research in Chinese on a selected topic suited to the student's needs and done under the direction of a faculty member.	3	3
CHIN 4010	CHINESE CONVERSATION & COMPOSITION (3) Development of speaking and writing skills in Chinese. Prerequisite: CHIN 2020/202 or consent of department.	3	4
CHIN 4020	CHINESE FOR THE PROFESSIONS (3) Study of basic grammar and vocabulary in the context of social service, health service, business or other professions. Prerequisite: CHIN 2020/202 or consent of department.	3	4
CHIN 4130	CHINESE CULTURE & CIVILIZATION (3) Study of Chinese culture and civilization through lecture, reading, video presentations, and discussions. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 4140	HISTORY OF CHINESE ART (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Study of the history of Chinese art through reading, lecture, video presentations, and discussions.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>		
CHIN 4220	<p>READING IN CONTEMPORARY CHINESE LITERATURE (3)</p> <p>Study of contemporary Chinese literature through reading, lecture, and discussions.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4230	<p>CHINESE FILMS (3)</p> <p>Examination of Chinese history, politics and culture through film.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4240	<p>READINGS IN CLASSICAL CHINESE LITERATURE (3)</p> <p>Study of classical Chinese literature through reading, lecture and discussions.</p> <p>Prerequisites: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4250	<p>CHINESE IN THE U.S. (3)</p> <p>Study of the history and development of the Chinese in the U.S. in the areas of literature, language and culture.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4260	<p>HISTORY AND DEVELOPMENT OF THE CHINESE LANGUAGES (3)</p> <p>Study of the history and development of the Chinese languages in phonetics and writing system.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4270	<p>MATERIALS FOR TEACHING CHINESE LANGUAGE, LITERATURE & CULTURE (3)</p> <p>Development of teaching materials through research and on-line design.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4900	<p>SPECIAL TOPICS IN CHINESE STUDIES (3-6)</p> <p>Special topics dealing with literature, culture, language, or foreign language methodology. May be repeated for a total of six credit hours.</p> <p>Prerequisite: CHIN 2020/202 or consent of department.</p>	3	3
CHIN 4920	<p>ADVANCED CHINESE SEMINAR (3)</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Review of language usage, cultural concepts, literature, and principles for foreign language teaching. Major project required. Prerequisite: CHIN 2020/202 or consent of department.		
CHIN 5010	CHINESE CONVERSATION & COMPOSITION (3) Development of speaking and writing skills in Chinese. Prerequisite: CHIN 2020/202 or consent of department.	3	4
CHIN 5020	CHINESE FOR THE PROFESSIONS (3) Study of basic grammar and vocabulary in the context of social service, health service, business or other professions. Prerequisite: CHIN 2020/202 or consent of department.	3	4
CHIN 5130	CHINESE CULTURE & CIVILIZATION (3) Study of Chinese culture and civilization through lecture, reading, video presentations, and discussions. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5140	HISTORY OF CHINESE ART (3) Study of the history of Chinese art through reading, lecture, video presentations, and discussions. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5220	READING IN CONTEMPORARY CHINESE LITERATURE (3) Study of contemporary Chinese literature through reading, lecture and discussions. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5230	CHINESE FILMS (3) Examination of Chinese history, politics and culture through film. Prerequisite: CHIN 2020/202 or consent of department.	3	3

CHIN 5240	READINGS IN CLASSICAL CHINESE LITERATURE (3) Study of classical Chinese literature through reading, lecture and discussions. Prerequisites: CHIN 2020/202 or consent of department.	3	3
CHIN 5250	CHINESE IN THE U.S. (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Study of the history and development of the Chinese in the U.S. in the areas of literature, language and culture. Prerequisite: CHIN 2020/202 or consent of department.		
CHIN 5260	HISTORY AND DEVELOPMENT OF THE CHINESE LANGUAGES (3) Study of the history and development of the Chinese languages in phonetics and writing system. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5270	MATERIALS FOR TEACHING CHINESE LANGUAGE, LITERATURE & CULTURE (3) Development of teaching materials through research and on-line design. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5900	SPECIAL TOPICS IN CHINESE STUDIES (3-6) Special topics dealing with literature, culture, language, or foreign language methodology. May be repeated for a total of six credit hours. Prerequisite: CHIN 2020/202 or consent of department.	3	3
CHIN 5920	ADVANCED CHINESE SEMINAR (3) Review of language usage, cultural concepts, literature, and principles for foreign language teaching. Major project required. Prerequisite: CHIN 2020/202 or consent of department.	3	3

Criminal Justice (CJ)

Course	Course Description	Credit Hrs.	Contact Hrs.
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CJ 1099	FRESHMAN SEMINAR IN CRIMINAL JUSTICE (1) This course introduces students to the university, university life, and promotes effective study skills and the effective use of university resources. Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.	1	1
CJ 1110	INTRODUCTION TO GANG AWARENESS (1) Introductory course in gang awareness to increase student familiarity.	1	1
CJ 1130	INTRODUCTION TO FORENSIC SCIENCE (3) Overview and exploration of criminalistics and forensic science practice with reference to criminal justice issues	3	3
CJ 1150	PSYCHOLOGY OF URBAN YOUTH (3) Techniques for relating to urban youth groups. In-service training for outreach personnel.	3	3
CJ 1180	HATE CRIMES & EXTREMIST GROUPS (3) Dynamics of hate crimes and extremist groups. Examination of historical and contemporary aspects and the growing body of scholarly work.	3	3
CJ 1190	CRITICAL THINKING ABOUT LAW AND JUSTICE (3) Critical examination of issues related to law and justice. Focuses on development of skills in interpreting, analyzing and evaluating law and justice issues.	3	3
CJ 1200	INTRODUCTION TO LAW (3) The origin, philosophy, and goals of law and the legal system, and basic concepts of law as it relates to the criminal justice system.	3	3
CJ 1210	INTRODUCTION TO CORRECTIONS (3) Present treatment techniques, goals, practices, problems, and programs. IAI: CRJ 910	3	3
CJ 1212	CJ 212 Introduction to Policing (formerly Introduction to Law Enforcement) Survey of policing including historical development, structure and functions, goals and objectives of police agencies, and current issues.	3	3
CJ 1220	INTRODUCTION TO PRIVATE SECURITY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	An overview of the growth and development of the private security industry in the context of the criminal justice system.		
CJ 1800	<p>FORENSIC CHEMISTRY (3)</p> <p>Application of physical science to analyzing evidence in criminal investigations. Topics covered in this interdisciplinary lecture/laboratory course include organic and inorganic analysis of samples, forensic toxicology, forensic blood analysis, fingerprints, firearms and impressions, drug analysis, arson investigations, DNA, and an introduction to microscopes and modern chemical instrumentation. Emphasis placed on understanding the science behind the techniques used in evaluating evidence.</p>	3	4
CJ 2245	<p>INTRODUCTION TO RESTORATIVE JUSTICE (3)</p> <p>Philosophy and practice of restorative justice, and its relationship to criminal justice</p>	3	3
CJ 2309	<p>SURVEY OF THE CRIMINAL JUSTICE SYSTEM (3)</p> <p>Overview of the American system of criminal justice, crime prevention, police and law enforcement, legislation, courts, corrections.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200; Sophomore standing (30 hours).</p>	3	3
CJ 2316	<p>INTRODUCTION TO CRIMINOLOGY (3)</p> <p>Theories of social deviance, crime and criminality. (Writing emphasis course.) IAI: CRJ 916</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and second semester sophomore standing (45 hours).</p>	3	3
CJ 3302	<p>INDEPENDENT STUDY IN CRIMINAL JUSTICE (3)</p> <p>Independent examination and analysis (supervised by a faculty member) of a criminological issue.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316; English 1280/128; junior standing (60 hours); consent of the instructor.</p>	3	3
CJ 3306	<p>COUNSELING IN SOCIAL JUSTICE AREAS (3)</p> <p>Specific techniques for individual and group processes and therapy with delinquents and criminals. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.</p>	3	3

CJ 3318	CORRECTIONAL LAW AND PRISONER RIGHTS (3) Constitutional rights of prisoners and ex-offenders, and review of recent court decisions. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
CJ 3321	THE CORRECTIONAL ORGANIZATION (3) Theory, concept, and development of correctional organizations; classical and current perspectives. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316; English 128, or consent of the department.	3	3
CJ 3323	YOUTH GANGS AND VIOLENCE (3) Analysis of youth gangs with emphasis on delinquent activity. Traces the historical development of gangs, the nature of gangs, characteristics of members, and theories of gang delinquency. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
CJ 3324	YOUTH GANG INTERVENTION (3) Theory, practice, and evaluation of various approaches to youth gang intervention. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
CJ 3325	POLICE OPERATIONS (3) Analysis of the basics behind effective police operations including the context in which services are provided and the skills required to provide these services. Approaches to patrol, traffic, crime, violence, juveniles, gangs are examined within the operational context. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, and ENG 128; or consent of the department.	3	3
CJ 3332	VICTIMOLOGY (3) Incidence and patterns in victimology and the role of the victim in the criminal justice process. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3

CJ 3335	POLICE ORGANIZATION AND MANAGEMENT (3) Organizational and management theory of police work. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
CJ 3340	U.S. CRIMINAL COURTS (3) Examination of the state, federal, adult, juvenile criminal court in the U.S., their structure, process and function, their history and recent developments. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316; ENG 128 or consent of the instructor.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CJ 3343		3	3
CJ 3344	TRIAL PRACTICE (3) Basic trial skills and techniques, including motion practice, opening and closing statements, direct and cross examination, impeachment, admissible evidence, and objections. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department; completion of SPCH 203 or consent of the instructor.	3	3
CJ 3351	PROBATION AND PAROLE (3) History of probation and parole, casework techniques, caseload handling, supervisory functions, and counseling techniques for field service workers. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
CJ 3352	JUVENILE INSTITUTIONS (3) Development of treatment concepts, treatment modalities, program planning, and service delivery systems in juvenile corrections. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department; completion of or concurrent enrollment in CJ 357 or consent of the instructor.	3	3
CJ 3353	ADULT INSTITUTIONS (3) Development of treatment concepts, treatment modalities, program planning, and service delivery in adult corrections. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3

CJ 3354	COMMUNITY BASED CORRECTIONS (3)	3	3
	History, philosophy and treatment modalities in community corrections, halfway houses, prerelease and work release programs, and urban minimum security programs. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.		
CJ 3355	CRIME CONTROL AND PREVENTION (3)	3	3
	Basic principles of crime prevention and control policies in the U.S. Prerequisites: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.		
CJ 3359		3	3
CJ 3361		3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CJ 3363		3	3
CJ 3370	SECURITY ADMINISTRATION (3) Introduction to the principles of administration and management of private security in the public sector. A study of security systems, their application, and the legal framework of their operation. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309 and 316, English 128, or consent of the department.	3	3
CJ 3378	COMPARATIVE CRIMINAL JUSTICE (3) An analysis of the criminal justice systems of Europe, Asia, Africa, and South America. Consideration of basic philosophies of law and justice, arrangements for crime prevention, and law enforcement, dispute settlement structures, and methods of dealing with convicted offenders. Prerequisite: Completion of or concurrent enrollment in CJ 200, 309, and 316, and ENG 128; or consent of the department.	3	3
CJ 4303	PROBLEMS IN SOCIAL JUSTICE (3) Investigation and report on an individually selected social justice problem. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; junior standing (60 hours).	3	3

CJ 4306	COUNSELING IN SOCIAL JUSTICE AREAS (3) Specific techniques for individual and group processes and therapy with delinquents and criminals. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4318	CORRECTIONAL LAW AND PRISONER RIGHTS (3) Constitutional rights of prisoners and ex-offenders, and review of recent court decisions. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4320	WOMEN IN CRIMINAL JUSTICE (3) Survey of women in criminal justice: professional role; female offenders, victims, volunteers and institutions. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CJ 4321	THE CORRECTIONAL ORGANIZATION (3) Theory, concept, and development of correctional organizations; classical and current perspectives. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316; English 1280/128, or consent of the department.	3	3
CJ 4322	ORGANIZED CRIME (3) Overview of organized criminal activities in the United States, including distinguishing characteristics, history, types of activities, modes of operation, and societal responses. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4323	YOUTH GANGS AND VIOLENCE (3) Analysis of youth gangs with emphasis on delinquent activity. Traces the historical development of gangs, the nature of gangs, characteristics of members, and theories of gang delinquency. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3

CJ 4324	YOUTH GANG INTERVENTION (3) Theory, practice, and evaluation of various approaches to youth gang intervention. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4325	POLICE OPERATIONS (3) Analysis of the basics behind effective police operations including the context in which services are provided and the skills required to provide these services. Approaches to patrol, traffic, crime, violence, juveniles, gangs are examined within the operational context. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, and ENG 1280/128; or consent of the department.	3	3
CJ 4326	POLICE COMMUNITY RELATIONS (3) Analysis of the relationship between the police and the community in terms of mutual understanding, involvement, and commitment. Police responsiveness and accountability to the community in terms of the control of crime and disorder is also considered. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, and ENG 1280/128; or consent of the department.	3	3
CJ 4329	RESEARCH APPRENTICESHIP (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Supervised experience assisting in an ongoing research project. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, 2316/316, and 4350/350; English 1280/128, junior standing (60 hours); consent of the instructor.		
CJ 4331	DRUG ABUSE AND THE CRIMINAL JUSTICE SYSTEM (3) Examination of the legal and social issues involved in the drug problem, including the problems faced by the criminal justice administration in dealing with the drug offender. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4332	VICTIMOLOGY (3) Incidence and patterns in victimology and the role of the victim in the criminal justice process. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3

CJ 4334	<p>COMPARATIVE POLICE SYSTEMS (3)</p> <p>The basic structure and functions of police systems in selected foreign countries.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4335	<p>POLICE ORGANIZATION AND MANAGEMENT (3)</p> <p>Organizational and management theory of police work.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4336	<p>SOCIOLOGY OF CORRECTIONS (3)</p> <p>The culture that exists within correctional institutions; the relationship of the correctional system to American culture and society.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4337	<p>CRIMINAL JUSTICE FROM AN HISTORICAL PERSPECTIVE (3)</p> <p>History of criminal justice from ancient times to 20th century.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CJ 4338	<p>CRIMINOLOGY THEORY (3)</p> <p>Reviews the history of criminological theory and existing paradigms for the explanation of crime.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4340	<p>U.S. CRIMINAL COURTS (3)</p> <p>Examination of the state, federal, adult, juvenile criminal court in the U.S., their structure, process and function, their history and recent developments.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316; ENG 1280/128 or consent of the instructor.</p>	3	3

CJ 4343	<p>CONSTITUTIONAL CRIMINAL PROCEDURE (3)</p> <p>U.S. constitutional law governing what the police and courts can and cannot do in the investigation of crime and the arrest and prosecution of criminals. The development of this body of law through US Supreme Court decisions interpreting and applying the Bill of Rights. Particularly recommended for law enforcement and Prelaw students.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; junior standing (60 hours).</p>	3	3
CJ 4344	<p>TRIAL PRACTICE (3)</p> <p>Basic trial skills and techniques, including motion practice, opening and closing statements, direct and cross examination, impeachment, admissible evidence, and objections.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; completion of CMAT2030/203 or consent of the instructor.</p>	3	3
CJ 4345	<p>LAW, JUDICIAL PROCESS AND SOCIETY (3)</p> <p>The nature of law and its relationships to society; legal reasoning and the judicial creation of law and policy; law school, lawyers and the legal profession; political influences on the judicial process. Particularly recommended for prelaw students, preferably in their junior year.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; junior standing (60 hours).</p>	3	3
CJ 4350	<p>RESEARCH DESIGN IN CRIMINAL JUSTICE (3)</p> <p>Sources of knowledge, developing research problem statements, methods for gathering data, and introduction to types of analysis.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; junior standing (60 hours).		
CJ 4351	<p>PROBATION AND PAROLE (3)</p> <p>History of probation and parole, casework techniques, caseload handling, supervisory functions, and counseling techniques for field service workers.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3

CJ 4352	JUVENILE INSTITUTIONS (3) Development of treatment concepts, treatment modalities, program planning, and service delivery systems in juvenile corrections. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department; completion of or concurrent enrollment in CJ 4357/357 or consent of the instructor.	3	3
CJ 4353	ADULT INSTITUTIONS (3) Development of treatment concepts, treatment modalities, program planning, and service delivery in adult corrections. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4354	COMMUNITY BASED CORRECTIONS (3) History, philosophy and treatment modalities in community corrections, halfway houses, prerelease and work release programs, and urban minimum security programs. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4355	CRIME CONTROL AND PREVENTION (3) Basic principles of crime prevention and control policies in the U.S. Prerequisites: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.	3	3
CJ 4356	LOCAL DETENTION FACILITIES (3) An overview of American local detention facilities, e.g., city, county, and regional jails, work farms, and camps. History of jails, jail administration, users of jails, work farms and, detention camps. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	2316/316, English 1280/128, or consent of the department.		

CJ 4357	<p>JUVENILE DELINQUENCY AND JUVENILE JUSTICE (3)</p> <p>Overview of the juvenile justice system; theories of delinquency; causes of delinquency; juvenile law; juvenile court operation and administration; delinquency prevention programs. IAI: CRJ 914</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4359	<p>FAMILY CRISIS INTERVENTION IN SOCIAL JUSTICE AREAS (3)</p> <p>Focus on family strengths to promote criminal justice clients' behavioral change, increased sense of worth, and relationship and communication skills.</p> <p>Prerequisites: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4361	<p>ELEMENTS OF SUBSTANTIVE CRIMINAL LAW (3)</p> <p>Study of the basic elements of substantive criminal law; philosophy of criminal law. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4362	<p>COMMUNITY'S ROLE IN CRIME PREVENTION (3)</p> <p>An examination of roles the community plays in the prevention, deterrence, and control of crime, with a focus on private sector involvement.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4363	<p>CRIMINAL INVESTIGATION (3)</p> <p>Review of general knowledge and skill development from the social sciences focusing on investigation in criminal justice settings and legal and ethical considerations. Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316; ENG 1280/128 or consent of the instructor.</p>	3	3
CJ 4368	<p>TERRORISM (3)</p> <p>Survey of literature on terrorism in America and abroad. Overview of theory, research, and action to confront terrorism.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, English 1280/128, or consent of the department.</p>	3	3
CJ 4370	<p>SECURITY ADMINISTRATION (3)</p> <p>Introduction to the principles of administration and management of private security in the</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>public sector. A study of security systems, their application, and the legal framework of their operation.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>		
CJ 4378	<p>COMPARATIVE CRIMINAL JUSTICE (3)</p> <p>An analysis of the criminal justice systems of Europe, Asia, Africa, and South America. Consideration of basic philosophies of law and justice, arrangements for crime prevention, and law enforcement, dispute settlement structures, and methods of dealing with convicted offenders.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309, and 2316/316, and ENG 1280/128; or consent of the department.</p>	3	3
CJ 4380	<p>QUANTITATIVE RESEARCH METHODS (3)</p> <p>Descriptive and inferential statistics; correlation; regression analysis. Emphasis on interpreting and understanding statistical analyses commonly found in criminal justice literature.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 4350/350 or consent of the instructor.</p>	3	3
CJ 4381	<p>QUALITATIVE RESEARCH METHODS IN CRIMINAL JUSTICE (3)</p> <p>Gathering and analyzing field and archival materials with attention to ethical concerns and policy applications.</p> <p>Prerequisites: CJ 4350/350</p>	3	3
CJ 4389	<p>SPECIAL TOPICS IN CRIMINAL JUSTICE (3)</p> <p>Analysis of a contemporary criminological problem chosen by the instructor.</p> <p>Prerequisite: Completion of or concurrent enrollment in CJ 1200/200, 2309/309 and 2316/316, English 1280/128, or consent of the department.</p>	3	3

CJ 4390	PRACTICUM/INTERNSHIP IN CRIMINAL JUSTICE/ FIELD (3-6) Supervised experience in criminal justice setting. Students integrate theory, knowledge and practice in culminating experience of criminal justice program. One hundred twenty-two clock hours for three credit hours. Six-hour option may be taken in one semester with the consent of the department. Writing emphasis course. Prerequisite(s): Declared major; consent of the department; completion of 105 credit hours, including CJ 1200/200, 2309/309, 2316/316 and ENG 1280/128, 2280/228, 2790/279, and 2800/280. Must have an overall GPA of 2.0 and a major GPA of 2.5.	3	3
CJ 4391	BACHELOR PAPER (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Writing intensive course culminating in a substantial paper. May be taken as an alternative to the practicum/internship. Writing emphasis course. Prerequisite(s): For declared majors who have worked a minimum of six months in a criminal justice agency. Consent of department. Completion of 105 credit hours, including CJ 1200/200, 2309/309, 2316/316 and ENG 1280/128, 2280/228, 2790/279 and 2800/280. Must have an overall GPA of 2.0 and a major GPA of 2.5.		
CJ 4392	SERVICE LEARNING PRACTICUM IN CRIMINAL JUSTICE (3-6) Supervised service learning/research class. With community partners, students participate in organized service activities that meet identified community justice-related needs. Integration theory of knowledge and civic action as culminating experience of criminal justice program. One hundred twelve clock hours for three credit hours. Six-hour option may be taken in one semester with the consent of the department and instructor. Prerequisite(s): Declared major; consent of the department; completion of 105 credit hours, including CJ 1200/200, 2309/309, 2316/316 and ENG 1280/128, 2280/228 and 2800/280. Must have an overall GPA of 2.0 and a major GPA of 2.5.	3	3
CJ 5303	PROBLEMS IN SOCIAL JUSTICE (3) Investigation and report on an individually selected social justice problem. Prerequisite: Completion of CJ graduate program prerequisites.	3	3
CJ 5306	COUNSELING IN SOCIAL JUSTICE AREAS (3) Specific techniques for individual and group processes and therapy with delinquents and criminals. Prerequisite: Completion of CJ graduate program prerequisites.	3	3

CJ 5318	CORRECTIONAL LAW AND PRISONER RIGHTS (3) Constitutional rights of prisoners and ex-offenders, and review of recent court decisions. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5320	WOMEN IN CRIMINAL JUSTICE (3) Survey of women in criminal justice: professional role; female offenders, victims, volunteers, and institutions. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5321	THE CORRECTIONAL ORGANIZATION (3) Theory, concept, and development of correctional organizations; classical and current perspectives.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of CJ graduate program prerequisites.		
CJ 5322	ORGANIZED CRIME (3) Overview of organized criminal activities in the United States, including distinguishing characteristics, history, types of activities, modes of operation, and societal responses. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5323	YOUTH GANGS AND VIOLENCE (3) Analysis of youth gangs with emphasis on delinquent activity. Traces the historical development of gangs, the nature of gangs, characteristics of members, and theories of gang delinquency. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5324	YOUTH GANG INTERVENTION (3) Theory, practice, and evaluation of various approaches to youth gang intervention. Prerequisites: Completion of CJ graduate program prerequisites.	3	3

CJ 5325	POLICE OPERATIONS (3) Analysis of the basics behind effective police operations including the context in which services are provided and the skills required to provide these services. Approaches to patrol, traffic, crime, violence, juveniles, gangs are examined within the operational context. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5326	POLICE COMMUNITY RELATIONS (3) Analysis of the relationship between the police and the community in terms of mutual understanding, involvement, and commitment. Police responsiveness and accountability to the community in terms of the control of crime and disorder is also considered. Prerequisites: Completion of CJ Graduate Program prerequisites.	3	3
CJ 5331	DRUG ABUSE AND THE CRIMINAL JUSTICE SYSTEM (3) Examination of the legal and social issues involved in the drug problem including the problems faced by the criminal justice administration in dealing with the drug offender. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5332	VICTIMOLOGY (3) Incidence and patterns in victimology and the role of the victim in the criminal justice process.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of CJ graduate program prerequisites.		
CJ 5334	COMPARATIVE POLICE SYSTEMS (3) The basic structure and functions of police systems in selected foreign countries. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5335	POLICE ORGANIZATION AND MANAGEMENT (3) Organizational and management theory of police work. Prerequisites: Completion of CJ graduate program prerequisites.	3	3

CJ 5336	SOCIOLOGY OF CORRECTIONS (3) The culture that exists within correctional institutions; the relationship of the correctional system to American culture and society. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5337	CRIMINAL JUSTICE FROM A HISTORICAL PERSPECTIVE (3) History of criminal justice from ancient times to the Twenty First Century. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5338	CRIMINOLOGY THEORY (3) Reviews the history of criminological theory and existing paradigms for the explanation of crime. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5340	U.S. Criminal Courts (3) Examination of the state, federal, adult, juvenile criminal courts in the U.S., their structure, process and function, their history and recent developments. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5343	CONSTITUTIONAL CRIMINAL PROCEDURE (3) U.S. constitutional law governing what the police and courts can and cannot do in the investigation of crime, and arrest and prosecution of criminals. The development of this body of law through the U.S. Supreme Court decisions interpreting and applying the U.S. Bill of Rights. Particularly recommended for pre-law and law enforcement students. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5344	TRIAL PRACTICE (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Basic trial skills and techniques including motion practice, opening and closing statements, direct and cross examinations, impeachments, admissible evidence, and objections. Prerequisites: Completion of CJ graduate program prerequisites.		

CJ 5345	LAW, JUDICIAL PROCESS AND SOCIETY (3) The nature of law and its relationship to society; legal reasoning and the judicial creation of law and policy; law school, lawyers and the legal profession; political influences on the judicial process. Particularly recommended for pre-law students. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5350	RESEARCH DESIGN IN CRIMINAL JUSTICE (3) Sources of knowledge, developing research problem statements, methods of gathering data, and introduction to types of analysis. Prerequisites: Completion of CJ program full admission requirement.	3	3
CJ 5351	PROBATION AND PAROLE (3) History of probation and parole, casework techniques, caseload handling, the supervisory function, and counseling techniques for field service workers. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5352	JUVENILE INSTITUTIONS (3) Development of treatment concepts, treatment modalities, program planning, and service delivery systems in juvenile corrections. Prerequisites: Completion of CJ graduate program prerequisites; completion of or current enrollment in CJ 4357/357.	3	3
CJ 5354	COMMUNITY BASED CORRECTIONS (3) History, philosophy, and treatment modalities in community corrections, halfway houses, prerelease and work release programs, and urban minimum security programs. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5355	CRIME CONTROL AND PREVENTION (3) Basic principles of crime prevention and control policies in the United States. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5356	LOCAL DETENTION FACILITIES (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>An overview of American local detention facilities, e.g., city, county, and regional jails, work farms, and camps. History of jails; jail administration; uses of jails, work farms, and detention camps.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>		
CJ 5357	<p>JUVENILE DELINQUENCY AND JUVENILE JUSTICE (3)</p> <p>Overview of the juvenile justice system; theories of delinquency; causes of delinquency; juvenile law; juvenile court operation and administration; delinquency prevention programs.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5361	<p>ELEMENTS OF SUBSTANTIVE CRIMINAL LAW (3)</p> <p>Study of the basic elements of substantive criminal law and the philosophy of criminal law.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5362	<p>COMMUNITY'S ROLE IN CRIME PREVENTION (3)</p> <p>An examination of roles the community plays in the prevention, deterrence, and control of crime with a focus on private sector involvement.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5363	<p>CRIMINAL INVESTIGATION (3)</p> <p>Review of general knowledge and skill development from the social sciences focusing on investigation in criminal justice settings and the legal and ethical considerations.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5368	<p>TERRORISM (3)</p> <p>Survey of recent literature on terrorism in America and abroad. Overview of theory, research, and action to confront terrorism.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5370	<p>SECURITY ADMINISTRATION (3)</p> <p>Introduction to the principles of administration and management of private security in the private sector. A study of security systems, their application, and the legal framework of their operation.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5380	<p>QUANTITATIVE RESEARCH METHODS (3)</p> <p>Descriptive and inferential statistics; correlation; regression analysis. Emphasis on</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>interpreting and understanding statistical analyses commonly found in criminal justice literature.</p> <p>Prerequisites: Completion of or concurrent enrollment in CJ 4350/5350/350G.</p>		
CJ 5381	<p>QUALITATIVE RESEARCH METHODS IN CRIMINAL JUSTICE (3)</p> <p>Gathering and analyzing field and archival materials with attention to ethical concerns and policy applications.</p> <p>Prerequisites: CJ 5350/350G</p>	3	3
CJ 5800	<p>SEMINAR: ADVANCED COUNSELING TECHNIQUES IN CRIMINAL JUSTICE (3)</p> <p>Major theories, principles, and techniques of counseling in criminal justice.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5801	<p>RESEARCH FOUNDATIONS (3)</p> <p>Advanced communication skills and critical thinking development focused on analyzing criminal justice literature and policy issues.</p> <p>Prerequisite: Admission to the graduate program in criminal justice.</p>	3	3
CJ 5802	<p>SEMINAR: CLASSIFICATION AND ASSESSMENT OF OFFENDERS (3)</p> <p>Techniques and methods for appraising personality characteristics. Selection, administration, interpretation, and evaluation of test instruments.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5804	<p>RESEARCH SEMINAR IN CRIMINAL JUSTICE (3)</p> <p>Current trends in research methodology. Formulation of student's research design.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites plus fifteen hours of graduate credit in department; completion or concurrent enrollment in CJ 4350/350, and 4380/380 or equivalent; formal admission to the master's degree program; consent of the instructor.</p>	3	3
CJ 5805	<p>SEMINAR: CRIMINAL JUSTICE MANAGEMENT AND ADMINISTRATION (3)</p> <p>Basic management principles for criminal justice administrators.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3

CJ 5806	SEMINAR: MENTAL ILLNESS AND CRIMINAL JUSTICE (3) The nature of mental illness in society and its treatment by society; the interaction of mental illness with police, courts, and corrections.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of CJ graduate program prerequisites.		
CJ 5807	SEMINAR IN VICTIMOLOGY (3) In-depth analysis of specific issues in the field of victimology, including methodology of victimization studies, victim precipitation, victims' rights, and the likelihood of victimization. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5812	INDEPENDENT STUDY IN CRIMINAL JUSTICE (3) Independent examination and analysis of a criminological issue under the supervision of a faculty member. Prerequisites: Completion of CJ graduate program prerequisites; formal admission to the master's degree program; consent of the instructor.	3	3
CJ 5829	RESEARCH APPRENTICESHIP (3) Supervised experience assisting in an on-going research project. Prerequisites: Completion of CJ graduate program prerequisites; formal admission to the master's degree program; consent of the instructor.	3	3
CJ 5845	SEMINAR: ETHICAL ISSUES IN CRIMINAL JUSTICE (3) Analysis of ethical issues that may arise in law enforcement, corrections and the judicial process. Examination of ethical standards that govern those involved in these areas, including the codes of the American Correctional Association, the American Bar Association and the International Chiefs of Police. Prerequisites: Completion of CJ graduate program prerequisites.	3	3

CJ 5855	<p>THESIS RESEARCH IN CRIMINAL JUSTICE (3)</p> <p>For graduate students who wish to complete a master's thesis in lieu of the practicum/internship (499) as culminating experience of program. Topic selection, literature search, design, research, and writing. May be taken for three credit hours. May be repeated to a maximum of six hours in subsequent semester with the consent of the department.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites; twenty-four hours of graduate credit in department; completion of or concurrent enrollment in CJ 4350/350 and 4380/380 or equivalent; formal admission to the master's degree program; consent of the instructor.</p>	3	3
CJ 5862	<p>SEMINAR: THE CORRECTIONAL ORGANIZATION (3)</p> <p>The nature and structure of correctional organizations in the United States; the attendant problems facing correctional agencies and how, if at all, these problems are being addressed.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of CJ graduate program prerequisites.		
CJ 5870	<p>SEMINAR: SOCIAL INEQUALITY AND CRIMINAL JUSTICE (3)</p> <p>The relationship between the criminal justice system and issues of social inequality and stratification, such as race and class.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5871	<p>SEMINAR IN PROBATION AND PAROLE (3)</p> <p>Analysis of theory, practice and development of probation and parole through evaluation of caseload handling, human service delivery and supervisory concepts.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5872	<p>SEMINAR IN JUVENILE INSTITUTIONS (3)</p> <p>Analysis of the planning, operations, treatment programs, and delivery system of juvenile justice from deterrence programming to post-institutionalization.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3
CJ 5873	<p>SEMINAR IN ADULT INSTITUTIONS (3)</p> <p>Analysis of the planning, operations and treatment concepts within adult institutions with special emphasis on variations between local, state, and federal levels.</p> <p>Prerequisites: Completion of CJ graduate program prerequisites.</p>	3	3

CJ 5875	SEMINAR: LAW ENFORCEMENT AND SOCIAL JUSTICE (3) Critical issues in law enforcement and examination of the enforcement function in a free society. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5876	SEMINAR: CORRECTIONAL LAW (3) Constitutional rights of prisoners; major issues in post-conviction rights, e.g., first amendment rights, procedural due process, cruel and unusual punishment. Current cases will be analyzed and studied in-depth. Prerequisites: Completion of CJ graduate program prerequisites; completion of CJ 4318/318 or consent of the department.	3	3
CJ 5877	SEMINAR IN COMMUNITY BASED CORRECTIONS AND SOCIAL JUSTICE (3) Analysis and evaluation of developmental concepts of treatment, planning, and operations in community corrections, halfway houses, work release, and minimum security urban centers.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of CJ graduate program prerequisites.		
CJ 5878	SEMINAR: INTERNATIONAL CRIMINAL JUSTICE SYSTEMS (3) Comparisons among and contrasts between American and other national criminal justice systems: the structures and operations, philosophies, political and social contexts. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5879	SEMINAR: PUBLIC POLICY ISSUES IN CRIMINAL JUSTICE (3) The politics of criminal justice; agenda setting; establishment of priorities; decisionmaking; agents and interest groups as they affect criminal justice policies and practices. Prerequisites: Completion of CJ graduate program prerequisites; formal admission to the master's degree program.	3	3
CJ 5880	SEMINAR IN ADVANCED TOPICS IN CRIMINOLOGY (3) Analysis, comparison, and discussion of theories and models in criminology with emphasis on understanding principles and their application. Prerequisites: Completion of CJ graduate program prerequisites; formal admission to the master's degree program.	3	3

CJ 5881	ADVANCED RESEARCH ANALYSIS: ANALYSIS AND APPLICATION (3) Intensive exploration of qualitative and quantitative analysis methods useful for criminal justice program evaluation, social policy review, and criminology theory generation. Prerequisites: CJ 5350/350, CJ 5380/380, CJ 5381, CJ 5801/401, CJ 5879/479, CJ 5880/480 or consent of department.	3	3
CJ 5889	SEMINAR: SPECIAL TOPICS IN CRIMINAL JUSTICE (3) Analysis of a contemporary criminological problem chosen by the instructor. Prerequisites: Completion of CJ graduate program prerequisites.	3	3
CJ 5898	ADVOCACY/POLICY PRACTICUM (3) Supervised experience in advanced advocacy and policy responsibilities in criminal justice/social justice settings. Integrates theory, research, and practice in culminating experience of graduate program. Prerequisites: Formal admission to the master's degree program; 24 graduate credit hours, including all other core courses.	3	3
CJ 5899	ADVANCED PRACTICUM/ INTERNSHIP IN CRIMINAL JUSTICE (3) Supervised experience in criminal justice setting. Integrates theory, knowledge, and practice in culminating experience of criminal justice program. May be taken for three credit hours.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	May be repeated in subsequent semester for three credit hours to a maximum of six hours with consent of the department. Prerequisites: Formal admission to the master's degree program; 24 graduate credit hours, including all other core courses (i.e., CJ 5350/350, CJ 5380/380, CJ 5381, CJ 5801/401, CJ 5879/479, CJ 5880/480, CJ 5881/481); or consent of department.		

Comm, Media Arts, Theatre (CMAT)

Course	Course Description	Credit Hrs.	Contact Hrs.
CMAT 1000	<p>CMAT ORIENTATION (1)</p> <p>Introduction for incoming Freshmen and transfer students to collegiate life. Provides a basic understanding of university, college, and departmental policies, a review of CMAT curriculum and graduation requirements, an introduction to the learning tools and resources available on campus, and tips for effective time and money management, stress reduction, wellness, and meeting course and faculty expectations. Survey of career opportunities related to the field. This course is required for all incoming CMAT Freshmen and transfer students with less than 45 hours of academic credit.</p>	1	1
CMAT 1130	<p>COMMUNICATION FOR PROFESSIONALS (3)</p> <p>Basic communication for professionals including communication theory, affects of culture on language, verbal and non-verbal communication, gender communication, small group dynamics, and speaking for presentations.</p>	3	3
CMAT 1140	<p>BUSINESS BASED COMMUNICATION (3)</p> <p>How to prepare and deliver business presentations. Will also enhance interviewing, team building and networking skills. Learn and apply the principles of small group and crosscultural communication along with audience analysis strategies to a variety of real-world business situations.</p>	3	3
CMAT 1440	<p>CRITICAL APPROACHES TO THE PERFORMING ARTS (3)</p> <p>Major theories of arts criticism through an understanding of the production processes of theatre, mass media and film.</p>	3	3
CMAT 1520	<p>FUNDAMENTALS OF THEATRE PRACTICE I /2 (1)</p> <p>Basic principles of play production. Practical work in production planning. IAI: TA 918</p>	1	2
CMAT 1530	<p>FUNDAMENTALS OF THEATRE PRACTICE II /2 (1)</p> <p>Continuation of CMAT 1520/152. IAI: TA 918 PREREQUISITE: CMAT 1520/152</p>	1	2
CMAT 1540	<p>FUNDAMENTALS OF THEATER PRACTICE III LECTURE AND PRACTICE /2 (1)</p> <p>Continuation of CMAT 1530/153 . IAI: TA 918 Prerequisite: CMAT 1530/153.</p>	1	1

CMAT 1650	COMPUTER MEDIA AND COMMUNICATION (3) Issues of computer-mediated communication, including Internet culture, privacy, ownership, and free speech. Non-lab course.	3	3
CMAT 1750	INTRODUCTION TO MEDIA CRITICISM (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Critical approaches to television and film: cultural representation, feminist, genre, and authorship analysis.		
CMAT 2000	SUVEY OF US FILM HISTORY (3) Historical survey of the film industry in the United States.	3	3
CMAT 2030	BASIC SPEECH COMMUNICATION (3) Introduction to speech arts and sciences. Includes communication theory, voice science, and theater. Oral presentations before an audience. (Enrichment core course) IAI: C2 900	3	3
CMAT 2040	INTRODUCTION TO THEATRE (3) An orientation to live theater, including its origins and occupations. IAI: F1 908	3	3
CMAT 2070	TELEVISION STUDIO PRODUCTION (3) Course designed to develop skills in audio, lighting, control room, editing and studio or field procedures. IAI: MC 916	3	6
CMAT 2080	TEXTUAL ANALYSIS AND DRAMATURGY (3) Historical and critical approach to the relatively new American field of dramaturgy. The role of the professional dramaturg during the play development process and within the professional theatre setting. Focus on research, text analysis, socio-historical situation and practice.	3	3
CMAT 2110	PRINCIPLES OF ANNOUNCING LECTURE AND LABORATORY /6 (3) Practice and analysis of announcing techniques. Additional course fee. IAI: MC 918	3	6
CMAT 2120	RADIO PRODUCTION (3) Practicum in radio production techniques, including newscasts, commercials, interviews, traffic and wheather reports. IAI: MC 915	3	6

CMAT 2140	AAFRICAN AMERICAN THEATER (3) A survey of the history and literature of African American theater from its beginnings in ritual to the present. (This course satisfies the elective course requirements for the African American Studies major or minor.) IAI: F1909D	3	3
CMAT 2150	MASS COMMUNICATION (3) Examination of the process (print, electronic and cinematic) and impact of the mass media on individual behavior and contemporary society. Readings and practical projects.	3	3
CMAT 2170	SURVEY OF GLOBAL CINEMA (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Introduction to world cinema.		
CMAT 2200	INTRODUCTION TO MULTIMEDIA PRODUCTION /6 (3) Development of skills in digital image manipulation, digital editing, producing for the Internet, and writing for new media. Additional course fee.	3	6
CMAT 2210	INTERPERSONAL COMMUNICATION (3) Studies and exercises in human interaction. Emphasis on the function of the individual in one-to-one encounters and in small group situations. (Enrichment core course)	3	3
CMAT 2300	THEATRE MANAGEMENT (3) A study of the problems of organizing, developing, and operating a commercial, community or educational theatre. Students will be given practical project experiences. Lab Fee.	3	3
CMAT 2310	AFRICAN-AMERICAN CINEMA (3) History and theory of African American Cinema. Screenings, lecture and discussion will include independent filmmakers and also influential works from the African Diaspora.	3	3
CMAT 2320	FUNDAMENTALS OF MAKEUP DESIGN (3) Fundamentals of make-up design and application for television, film and theatre. Lab fee.	3	6
CMAT 2340	COSTUME DESIGN AND CONSTRUCTION (3) Script analysis, historical research, style as translation from text to image. Visual communication of character through clothes. Tools, supplies and techniques of costume construction with an emphasis on basic skills. Lab fee.	3	9

CMAT 2350	HISTORY OF COSTUME DESIGN (3) Costume design from a historical perspective; social, cultural and economic mores that govern dress including film and theatre standards.	3	3
CMAT 2460	PUBLIC RELATIONS I (3) The theory of Public Relations, problem identification, target audience, plan development and evaluation.	3	3
CMAT 2500	MEDIA AND SOCIAL JUSTICE (3) Study of legal and ethical principles governing media production, distribution and access that will serve as the foundation for building a just and democratic society. Topics include issues of media and race, class, gender, human rights and the impact of media globalization on cultures.	3	3
CMAT 2520	INTRODUCTION TO VIDEO FIELD PRODUCTION /6 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Introduction to single camera field production and editing.		
CMAT 2530	DIGITAL ADVANCED FIELD PRODUCTION (3) Practicum in the theory, principles, and techniques of digital single camera portable video production and editing. Additional course fee. Prerequisites: CMAT 2520/252.	3	6
CMAT 2550	ACTING (3) Study of the theory and techniques of the actor's approach to the interpretation of drama. Lectures, readings, and practical exercises. Lab Fee. IAI: TA 914	3	3
CMAT 2560	ACTING II (3) Lecture and laboratory studies in monologues and multiple character scenes. IAI: TA 915 Prerequisite: CMAT 2550/255 or consent of the department.	3	3
CMAT 2610	ORAL INTERPRETATION OF LITERATURE (3) Practice in oral reading. Analysis and criticism of prose, poetry, and drama. Public performance.	3	3

CMAT 2650	DIGITAL FILMMAKING (3) Practicum in the fundamentals of the digital motion picture camera including lighting and editing for video. Prerequisites: Consent of department.	3	3
CMAT 2720	SMALL GROUP COMMUNICATION (3) Analysis of the dynamics of small group communicative relations. A review of group types and functions with emphasis on contemporary theories and practices.	3	3
CMAT 2980	INDEPENDENT STUDY IN THEATRE (1-3) Selected studies and projects in theatre. May be taken more than once for credit for a maximum of 6 credit hours. Prerequisite: Proposal approved by the department.	1	1
CMAT 2990	INDEPENDENT STUDY IN SPEECH (1-3) Selected studies and projects in speech and broadcasting. May be taken more than once for credit for a maximum of 6 credit hours. Prerequisite: Proposal approved by the department.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
CMAT 3010	ACTING III (3) Lecture and laboratory studies in acting styles and alternative acting approaches and techniques.	3	3
CMAT 3020	CSU-TV PRACTICUM (3) Students will produce and edit programming for CSU-TV. May be taken multiple times for up to 9 credits.	3	3
CMAT 3030	THEORY OF DIGITAL MEDIA (3) Historical and critical perspectives in digital media.	3	3
CMAT 3040	ADVANCED LIGHTING DESIGN FOR TELEVISION (3) Advanced theory and practice of lighting design for television. Additional course fee. Prerequisites: CMAT 2070/207, CMAT 2630/263, CMAT 2520/252.	3	6

CMAT 3050	DIGITAL FILM DIRECTING (3) Theory and practice of narrative film directing including preproduction, production and post-production. Additional course fee. Prerequisites: CMAT 2520/252, CMAT 2530, and CMAT 2230 (if a transfer student).	3	6
CMAT 3060	DOCUMENTARY PRODUCTION I (3) Students complete preproduction and initial shooting for a documentary or reality show including a grant proposal, fundraising plan, budget, shooting schedule, research packet, script, and distribution plan. Prerequisites: CMAT 2520 and CMAT 2230 (if a transfer student).	3	3
CMAT 3061	DOCUMENTARY PRODUCTION II (3) Students complete production and postproduction phases of a documentary or reality show they have begun in Documentary Production I. Additional course fee. Prerequisites: CMAT 2520/252, CMAT 3060, and CMAT 2230 (if a transfer student).	3	6
CMAT 3070	SURVEY OF DOCUMENTARY FILM HISTORY (3) Survey of documentary film history.	3	3
CMAT 3071	TELEVISION STUDIO DIRECTING (6) Practicum designed to develop directorial skills. Includes writing and directing newscasts, commercials, documentaries and interviews. Additional course fee.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: CMAT 2070/207.		
CMAT 3080	PRACTICUM IN MEDIA LECTURE AND LABORATORY /6 (3-6) Supervised activity on the university communication media, professional association competitions, student communication agencies, or other faculty approved experimental components of the broadcasting degree program through the completion of a learning agreement. May be taken twice for credit for a maximum of 6 credit hours. Additional course fee. Prerequisite: Junior status and consent of department.	3	3

CMAT 3090	PRACTICUM IN THEATRE LECTURE AND LABORATORY /6(3-6) Refinement of production techniques and participation as crew supervisor, designer or in a major performance or management role. May be taken twice for a maximum of 6 credit hours. Additional course fee. Prerequisite: Junior standing or consent of department.	3	6
CMAT 3110	WCSU RADIO ON-AIR PRACTICUM (1) Students will produce their own programming for a weekly air-shift on WCSU-RADIO. May be taken multiple times for up to 9 credits. Prerequisites: CMAT 2110/211 or CMAT 2120/212.	1	1
CMAT 3111	WCSU RADIO MANAGEMENT PRACTICUM (3) Students will run a department of the radio station; programming, music, community affairs. May be taken multiple times for up to 9 credits. Prerequisites: CMAT 2110/211 or CMAT 2120/212.	3	3
CMAT 3130	CLASSICAL AFRICAN THEATRE (3) A detailed study of the history and form of traditional African theatre beginning with the world view and ritual practices by which it is informed. Prerequisite: Consent of department.	3	3
CMAT 3210	WRITING FOR MULTIMEDIA (3) Writing for various forms of multimedial including the internet and interactive DVD formats.	3	3
CMAT 3230	WRITING FOR TELEVISION (3) Principles of writing fiction for television, including analysis of different program formats	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	and structures. Practicum will involve taking an idea through the initial treatment stage to a complete script.		
CMAT 3240	WRITING THE SCREENPLAY (3) Fundamentals of story and script structure for the feature film script. Concepts and skills taught include plot development, characterization and dialog writing.	3	3

CMAT 3320	PUBLIC RELATIONS II (3) Practice of Public Relations in Business, medical, nonprofit entertainment, politics and government. Prerequisite: CMAT 2460/246	3	3
CMAT 3430	SPORTS BROADCASTING I (3) Introduction to production techniques for radio and video sports programming. Additional course fee.	3	6
CMAT 3460	WRITING FOR PUBLIC RELATIONS (3) Public relations writing including press releases, backgrounders, creation of press kits, annual reports, newsletters, brochures, and speeches. Prerequisite: Consent of department.	3	3
CMAT 3462	MARKETING FOR PUBLIC RELATIONS (3) Theory and practice of marketing as applied in the field of public relations.	3	3
CMAT 3600	ADVANCED PRODUCTION SEMINAR (3) Specialized aspects of media production. May be repeated twice for a maximum of six credit hours. Additional course fee. Prerequisite: Consent of department.	3	6
CMAT 3630	LIGHTING AND SCENERY DESIGN FOR TELEVISION (3) Practicum in the design of lighting and scenery for television. Additional course fee.	3	6
CMAT 3660	ADVANCED MULTI-CAMERA PRODUCTION LECTURE AND LABORATORY/6 (3) Advanced training in multi-camera production in both studio and remote locales. Additional course fee. Prerequisite: CMAT 2070/207.	3	6
CMAT 3680	THEATRE INTERNSHIP (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Qualified theatre students may be recommended for one of the limited number of paid or unpaid internships available in the community. Prerequisite: Junior standing and consent of the department.		

CMAT 3690	MASS COMMUNICATION RESEARCH (3) Survey of mass media research methods. Prerequisite: Consent of department.	3	3
CMAT 3730	INDEPENDENT STUDY IN THEATRE (1-3) Intensive studies in theatre. May be taken more than once for a maximum of 6 credit hours. Prerequisite: Proposal approved by the department.	1	1
CMAT 4010	MEDIA SALES AND MARKETING (3) Study of the theoretical and practical aspects of marketing for radio, television and the Internet.	3	3
CMAT 4020	ADVANCED VIDEOGRAPHY (3) Intensive study of videography including lenses, framing, camera shading and other skills. Additional course fee. Prerequisites: CMAT 2520/252, CMAT 2530, and CMAT 2230 (if a transfer student).	3	6
CMAT 4110	ANNOUNCING II (3) Advanced studies in announcing for the media. Additional course fee. Prerequisites: CMAT 2040/204, CMAT 2110/211, and CMAT 2120/212.	3	6
CMAT 4300	BROADCAST MANAGEMENT AND PROGRAMMING (3) Theory and practice in radio and television management and programming. Analytical and applied projects relating to current programs and the development of new program material. Prerequisite: Consent of the department.	3	3
CMAT 4302	ON CAMERA PERFORMANCE LECTURE AND LABORATORY/6 (3) Study of theory and techniques for television and film performance in cooperation with directing classes. Additional course fee. Prerequisite: CMAT 2110/211 or CMAT 2550/255; or consent of department.	3	6
CMAT 4304	ORGANIZATIONAL COMMUNICATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	An introductory survey of the major theories and concepts which attempt to explain the nature of message sending (verbal and nonverbal) within complex systems.		
CMAT 4305	NONVERBAL ELEMENTS IN INTERPERSONAL COMMUNICATION (3) Survey of the major theories and concepts which attempt to explain the nature of communication which is not transmitted by verbal symbols.	3	3
CMAT 4306	PRACTICUM IN BROADCASTING LECTURE AND LABORATORY /6 (3-6) Additional production experience in conjunction with university related broadcasts. May be taken twice for a maximum of 6 credit hours. Additional course fee. Prerequisite: Junior status and consent of the department.	3	3
CMAT 4307	BROADCASTING INTERNSHIP (3-12) Qualified broadcasting majors may be recommended for one of the limited number of unpaid internships available in the community. Prerequisite: Senior status and consent of the department.	3	3
CMAT 4310	DYNAMICS OF PERSUASION (3) An in-depth study of the process of persuasion including an examination of the following concepts: the nature of attitudes, attitude change, source credibility, order of presentation, and group affiliation.	3	3
CMAT 4312	CREATIVE DRAMATICS (3) Techniques for guiding children in creative dramatics. Emphasis on practical application for classroom use.	3	3
CMAT 4314	WORLD THEATER HISTORY AND LITERATURE (3) A survey of theater history and theater literature of various cultures. Prerequisite: Consent of the department.	3	3
CMAT 4315	ADVANCED SPEECH (3) Advanced theory and practice in public speaking. Prerequisite: CMAT 2030/203 or consent of the department.	3	3
CMAT 4316	STUDIES IN MEDIA ADAPTATION (3) Analysis of adaptations of narrative forms in different media.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CMAT 4322	STUDIES IN PLAYWRITING (3) Intensive theory and practice of writing for the stage.	3	3
CMAT 4326	BROADCAST JOURNALISM (3) Practice in writing, production and editing of news segments for radio and television. Prerequisite: Consent of department.	3	3
CMAT 4327	HISPANIC MEDIA (3) Examination of the Hispanic media industry and important issues confronting Hispanic media producers. (CMAT 4327/327 is identical to SPAN 4270/327 and credit will not be given for both.) Prerequisite: SPAN 2020/152 or consent of the Spanish and CMAT advisors.	3	3
CMAT 4330	BROADCAST MEASUREMENT AND TEST EQUIPMENT (3) Introduction to equipment used by broadcast technicians and engineers to monitor and verify signal within FCC specifications from signal origination to transmission facility. Spectrum analysis. Additional course fee. Prerequisite: Consent of Department.	3	3
CMAT 4331	BROADCAST OPERATIONS (3) Role of engineering in interaction with various departments on a daily basis including traffic, continuity and production. Prerequisite: Consent of department.	3	3
CMAT 4332	ADVANCED MAKE-UP DESIGN (3) Advanced make-up design and application techniques; practical experience with university-related television, film and theatre productions. Additional course fee. Prerequisite: CMAT 2320/232	3	6
CMAT 4333	FCC BROADCASTING RULES & REGULATIONS (3) FCC rules and regulations governing television, radio and cable facilities. Proper station operations, RF power, decency laws, etc. Prerequisite: Consent of department.	3	3

CMAT 4334	COSTUME DESIGN AND CONSTRUCTION II (3) Advanced costume design including rendering methodologies. Costume construction including patterning, draping, pattern drafting, and tailoring/sewing skills. Additional	3	6
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Course	Course Description	Credit Hrs.	Contact Hrs.
	course fee. Prerequisites: CMAT 2340/234.		
CMAT 4342	SPORTS BROADCASTING II (3) Advanced production techniques for radio and video sports programming. Additional course fee. Prerequisite: Consent of department.	3	6
CMAT 4345	SPECIAL TOPICS IN COMMUNICATION (3) Intensive study of a selected subject in communications. Prerequisite: Consent of the department.	3	3
CMAT 4346	TOPICS IN COMMUNICATION (3) Study of a selected subject in communications. May be taken twice for credit if the topics are different.	3	3
CMAT 4350	THEATER WORKSHOP (3) Basic techniques, theory and practice linked with theater production.	3	3
CMAT 4360	STAGE DIRECTION (3) Study of the theory, principles, and techniques of the director's art. Laboratory exercises included. Prerequisite: CMAT 2040/204, 2140/214, or 2550/255; or consent of department	3	3
CMAT 4362	CONTEMPORARY ISSUES IN BROADCASTING (3) Seminars on major issues which are relevant to selected aspects of broadcasting. Writing emphasis course. Prerequisite(s): CMAT 3690/380 or consent of department.	3	3

CMAT 4365	ADVANCED PROJECT LECTURE AND LABORATORY /6 (3) The final project may be in the areas of television, radio and film. Combinations are acceptable and may include the theater and other aspects of mass communication. Students must demonstrate competence in a combination of the following areas: production, writing, programming, management or criticism. Lab Fee. Prerequisite: Consent of department.	3	3
CMAT 4367	AUDIO PRODUCTION LECTURE AND LABORATORY (3) Advanced experiences in fundamentals of recording multi-track and live-mix formats.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Additional course fee. Prerequisite: CMAT 2120/212 or consent of the department.		
CMAT 4368	NEW TECHNOLOGIES IN COMMUNICATION (3) Study of the technological development of electronic media and its implications for programming and the production process. Prerequisite: CMAT 3690/380 or consent of department.	3	3
CMAT 4372	ADVANCED EDITING WORKSHOP (3) Emphasis on aesthetic approaches to editing films, commercials and dramatic television. Prerequisites: CMAT 2520/252, CMAT 2530, and CMAT 2230 (if a transfer student).	3	3
CMAT 4373	ADVANCED SCRIPTWRITING (3) Advanced seminar in scriptwriting, including scene analysis, story deconstruction and principles of rewriting. Lab Fee. Prerequisites: CMAT 4323/323 or CMAT 4324/324.	3	3
CMAT 4374	PRODUCING COMMERCIALS FOR TELEVISION AND THE INTERNET (3) Applied training in producing commercial spots for television and the Internet. Prerequisites: CMAT 2520/252 and CMAT 2530.	3	3
CMAT 4375	VIDEO MOTION GRAPHICS (3) Creating multi-layered motion graphics for video in Adobe After Effects. Prerequisites: CMAT 2200/220, CMAT 2520/252 and CMAT 2530.	3	3

CMAT 4376	DIGITAL PRODUCTION FOR WEB APPLICATIONS (3) Producing media for podcasts, blogs, social networking sites and other digital applications. Prerequisites: CMAT 2200/220, CMAT 2520/252, CMAT 2530, CMAT 2230, and CMAT 2120/212.	3	3
CMAT 4377	PRODUCING STUDIO TALK SHOWS (3) Preproduction, production and post-production aspects of creating the studio talk show. Prerequisites: CMAT 2070/207, CMAT 2520/252, and CMAT 2230 (if a transfer student).	3	3
CMAT 4378	MEDIA ENTREPRENEURSHIP (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Establishing and running your own media business.		
CMAT 4397	SENIOR THESIS PRACTICUM (3) Culminating experience for graduating seniors majoring in CMAT. Students will create a final project demonstrating baccalaureate level skills by completing a substantial final project in at least one of the following areas: screenwriting, radio production, studio television production, digital field production, playwriting, acting, stage directing or public relations. Additional course fee. Prerequisites: CMAT 2040/204, CMAT 2080/208, CMAT 2520/252, CMAT 2530, CMAT 2550/255, CMAT 2120/212, CMAT 2110/211, CMAT 2070/207, CMAT 3230 or CMAT 4322/322 or CMAT 3210/321 or CMAT 3460/356 or CMAT 3240.	3	6
CMAT 4399	INDEPENDENT STUDY IN CMAT (3) Intensive studies in speech and broadcasting. May be taken more than once for a maximum of 6 credit hours. Prerequisite: Proposal approved by the department.	3	3
CMAT 5300	BROADCAST MANAGEMENT AND PROGRAMMING (3) Theory and practice in radio and television management and programming. Analytical and applied projects relating to current programs and the development of new program material. Prerequisite: Consent of the department.	3	3

CMAT 5302	ON CAMERA PERFORMANCE LECTURE AND LABORATORY/6 (3) Study of theory and techniques for television and film performance in cooperation with directing classes. Additional course fee. Prerequisite: CMAT 2110/211 or CMAT 2550/255; or consent of department.	3	6
CMAT 5304	ORGANIZATIONAL COMMUNICATION (3) An introductory survey of the major theories and concepts which attempt to explain the nature of message sending (verbal and nonverbal) within complex systems.	3	3
CMAT 5305	NONVERBAL ELEMENTS IN INTERPERSONAL COMMUNICATION (3) Survey of the major theories and concepts which attempt to explain the nature of communication which is not transmitted by verbal symbols.	3	3
CMAT 5306	PRACTICUM IN BROADCASTING LECTURE AND LABORATORY /6 (3-6) Additional production experience in conjunction with university related broadcasts. May be taken twice for a maximum of 6 credit hours. Additional course fee. PREREQUISITE: Consent of Department.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
CMAT 5307	BROADCASTING INTERNSHIP (3-12) Qualified broadcasting majors may be recommended for one of the limited number of unpaid internships available in the community. Prerequisite: Consent of the department.	3	3
CMAT 5310	DYNAMICS OF PERSUASION (3) An in-depth study of the process of persuasion including an examination of the following concepts: the nature of attitudes, attitude change, source credibility, order of presentation, and group affiliation.	3	3
CMAT 5312	CREATIVE DRAMATICS (3) Techniques for guiding children in creative dramatics. Emphasis on practical application for classroom use.	3	3
CMAT 5314	WORLD THEATER HISTORY AND LITERATURE (3) A survey of theater history and theater literature of various cultures. Prerequisite: Consent of the department.	3	3

CMAT 5315	ADVANCED SPEECH (3) Advanced theory and practice in public speaking. Prerequisite: CMAT 2030/203 or consent of the department.	3	3
CMAT 5316	STUDIES IN MEDIA ADAPTATIONS (3) Analysis of adaptations of narrative forms in different media.	3	3
CMAT 5322	STUDIES IN PLAYWRITING (3) Intensive theory and practice of writing for the stage.	3	3
CMAT 5323	WRITING FOR TELEVISION (3) Principles of writing fiction for television, including analysis of different program formats and structures. Practicum will involve taking an idea through the initial treatment stage to a complete script.	3	3
CMAT 5324	WRITING THE SCREENPLAY (3) Fundamentals of story and script structure for the feature film script. Concepts and skills taught include plot development, characterization and dialog writing. Additional course fee.	3	3
CMAT 5326	BROADCAST JOURNALISM (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Practice in writing, production and editing of news segments for radio and television. Prerequisites: Consent of department.		
CMAT 5345	SPECIAL TOPICS IN COMMUNICATION (3) Intensive study of a selected subject in communications. Prerequisite: Consent of the department.	3	3
CMAT 5350	THEATER WORKSHOP (3) Basic techniques, theory and practice linked with theater production. Lab Fee.	3	3
CMAT 5352	DIGITAL ADVANCED FIELD PRODUCTION LECTURE AND LABORATORY (3) Practicum in the theory, principles, and techniques of digital single camera portable video production and editing. Lab Fee. Prerequisite: CMAT 2520/252.	3	6

CMAT 5360	STAGE DIRECTION (3) Study of the theory, principles, and techniques of the director's art. Laboratory exercises included. Prerequisite: Consent of department.	3	3
CMAT 5362	CONTEMPORARY ISSUES IN BROADCASTING (3) Seminars on major issues which are relevant to selected aspects of broadcasting. Writing emphasis course. Prerequisite: Consent of department.	3	3
CMAT 5365	ADVANCED PROJECT LECTURE AND LABORATORY /6/ (3) The final project may be in the areas of television, radio and film. Combinations are acceptable and may include the theater and other aspects of mass communication. Students must demonstrate competence in a combination of the following areas: production, writing, programming, management or criticism. Additional course fee. Prerequisite: Consent of the department.	3	6
CMAT 5367	ADVANCED AUDIO PRODUCTION LECTURE AND LABORATORY (3) Advanced experiences in fundamentals of recording multi-track and live-mix formats. Additional course fee. Prerequisite: CMAT 2120/212 or consent of the department.	3	3
CMAT 5368	NEW TECHNOLOGIES IN COMMUNICATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Study of the technological development of electronic media and its implications for programming and the production process. Prerequisite: Consent of department.		
CMAT 5373	ADVANCED SCRIPTWRITING (3) Advanced seminar in scriptwriting, including scene analysis, story deconstruction and principles of rewriting. Lab Fee. Prerequisites: CMAT 5323/323 or CMAT 5324/324	3	3

CMAT 5398	INDEPENDENT STUDY IN THEATRE (1-3) Intensive studies in theatre. May be taken more than once for a maximum of 6 credit hours. Prerequisite: Proposal approved by the department.	1	1
CMAT 5399	INDEPENDENT STUDY IN CMAT (3) Selected studies and projects in speech, theater, and broadcasting. May be taken twice for credit. Prerequisite: Proposal approved by the department.	3	3

Counseling (COUN)

Course	Course Description	Credit Hrs.	Contact Hrs.
COUN 5600	INTRODUCTION TO SCHOOL COUNSELING (3) Introduction to the roles and functions of the school counselor within a developmental (e.g., ASCA Model) and other school counseling programs. Examines all aspects of professional functioning including history, organizational structure, ethics, standards, and credentialing. Exposes student to the developmental counseling curriculum, individual planning, responsive services, consultation theory, needs assessment, and program and system support with traditional, urban, and special populations. Prerequisites: Completion of program prerequisites or concurrent enrollment and admission into the counseling master's degree program.	3	3
COUN 5610	PRINCIPLES OF COMMUNITY COUNSELING (3) Principles of counseling in a community agency setting. History and philosophy of psychological counseling, role and training of the counselor, modes of intervention, consultation theory, needs assessment, and ethics of counseling. Prerequisites: Completion of program prerequisites or concurrent enrollment and admission into the counseling master's degree program.	3	3
COUN 5611	PRINCIPLES IN CLINICAL MENTAL HEALTH COUNSELING (3) Addresses the roles, functions, settings, and management of clinical mental health counseling. Introduces relevant models and theories, ethical and legal issues, professional organizations, preparation standards and credentialing, and management of mental health services. Prerequisites: Admission to Counseling Graduate Program or permission of Department.	3	3

COUN 5640	COUNSELING THEORIES AND ETHICS (3) Major theories, principles, ethical concerns, and techniques of counseling. Introduction to Afro-centric and other models and exploration of techniques for children adolescents, and special populations. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610; concurrent enrollment. Admission to the master's degree program.	3	3
COUN 5650	MICROCOUNSELING (3) Practical and experiential laboratory designed to build basic counseling and interviewing skills, including counselor self-awareness. Focus on development of understanding of the counseling process through reading, lectures, analogue exercises, and video demonstrations. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610; concurrent enrollment. Admission to the Master's degree program.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
COUN 5660	ADVANCED LIFESPAN DEVELOPMENT (3) Examines development across the life span and addresses issues that impact counseling and development such as ethnicity, economics, disabilities, and abuse/neglect. Addresses all the major developmental theories including family development and basic learning theory. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610; concurrent enrollment.	3	3
COUN 5670	PRINCIPLES AND TECHNIQUES OF GROUP COUNSELING (3) Group methods for identifying, understanding, and solving common problems. Explores counseling and therapy in a group setting. Prerequisites: PSYC 5650/414 or COUN 5650 and PSYC 5640/416 or COUN 5640. Admission to the master's degree program.	3	3
COUN 5710	MULTICULTURAL ISSUES IN COUNSELING (3) This course is designed to build expertise in counseling individuals from diverse cultural backgrounds including but not limited to individuals of African American, Hispanic, Asian, and American heritage. It includes a study of change, ethnicity, changing roles of women and sexism, urban and rural societies, changing population patterns, cultural mores, and differing life patterns. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610; concurrent enrollment. Admission into the master's degree program.	3	3

COUN 5720	LIFE STYLE AND CAREER DEVELOPMENT (3) Theories and principles of vocational choice, relationship between career choice and life style, sources of occupational and educational information, computerized guidance services, financial aid, college admissions, approaches to career decision making processes and career development exploration techniques. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610; concurrent enrollment. Admission to the master's degree program.	3	3
COUN 5730	TECHNIQUES OF ASSESSMENT AND DIAGNOSIS (3) Selection, administration, interpretation, and evaluative use of intelligence, aptitude, personality, interest, and achievement tests. Use and/or construction of questionnaires, sociograms, anecdotal records, and other appraisal devices. Practice of differential diagnosis and clinical interviewing. Additional course fee. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610 or concurrent enrollment; PSYC 4190/357 or equivalent basic statistics course. Admission to the master's degree program.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
COUN 5735	PERSONALITY APPRAISAL (3) Techniques and methods for appraising personality characteristics. Prerequisites: PSYC 5640/416 or COUN 5640 and PSYC 5730/417 or COUN 5730. Admission to the master's degree program.	3	3
COUN 5740	TREATMENT INTERVENTIONS IN URBAN YOUTH AND FAMILIES (3) Seminar on issues (e.g., gangs, violence, abuse, drugs, poverty, etc.) facing youth and families in urban inner-city environments. Exposes students to theories of adolescent development, how development is compromised in such youth, and using research to guide effective treatment strategies for this population. Introduces family system theory and application with youth and families. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610 and PSYC 5660/410 or COUN 5660. Admission to the master's degree program.	3	3
COUN 5745	SPIRITUALITY IN COUNSELING (3) Explores implications for addressing client spirituality in the counseling process. Spiritual (e.g., 12-step programs) models, faith-based programs, methods for working with clients' diverse beliefs, ethical issues, research findings, and spiritual assessment techniques will be examined.	3	3

COUN 5746	COUNSELING ACROSS THE LIFESPAN (3) Addresses theory and evidence-based practice for children, adolescents, adults, and gerontological populations. Introduces play therapy and expressive media in the playroom with children as well as age-appropriate group and individual strategies for all ages and levels of development. Prerequisites: Admission to the Counseling Graduate Program.	3	3
COUN 5750	INTRODUCTION TO FAMILY SYSTEMS COUNSELING (3) An introduction to general systems theory and survey of the major systems of family therapy, emphasizing theory and treatment strategies. Prerequisites: PSYC 5650/414 or COUN 5650 and PSYC 5640/416 or COUN 5640. Admission to the master's degree program.	3	3
COUN 5755	TREATMENT PLANNING AND ADVANCED COUNSELING APPLICATIONS (3) Covers integration of diagnostic assessment, biopsychosocial model, history, treatment format and planning, and evaluation of treatment effectiveness. Introduces students to psychopharmacology, crisis intervention, trauma counseling (for individuals, groups, organizations, and communities) and emergency preparedness. Prerequisites: PSYC 5600/406 or COUN 5600, PSYC 5640/416 or COUN 5640, PSYC	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	5670/423 or COUN 5670 and PSYC 5840/455 or COUN 5840		
COUN 5760	ORGANIZATION AND MANAGEMENT OF DEVELOPMENTAL COUNSELING PROGRAMS (3) Organization and management of the developmental model of counseling programs within the school setting. Exposes students to the counseling curriculum, individual planning, responsive services, consultation theory, needs assessment, and program and system support. Applications to urban setting and special populations. Prerequisites: PSYC 5600/406 or COUN 5600. Admission to the master's degree program.	3	3

COUN 5780	<p>ADVANCED SCHOOL COUNSELING APPLICATIONS (3)</p> <p>Focuses on the skills and techniques needed to assist students during school years and the transition to work/college (e.g., transcript review and college applications). Addresses social and emotional learning standards, special education law, effective case management and the development of Individual Educational Plans through multidisciplinary staffing involving parents, students, and school professionals. Provides experience with computer programs and other tools used by school counselors as well. Students will also be required to write a comprehensive Developmental Counseling Program.</p> <p>Prerequisites: PSYC 5600/406 or COUN 5600, PSYC 5640/416 or COUN 5640, PSYC 5670/423 or COUN 5670 and PSYC 5840/455 or COUN 5840</p>	3	3
COUN 5790	<p>PRE-PRACTICUM COUNSELING LABORATORY (3)</p> <p>Clinical laboratory experience with actual clients and live and videotaped supervision in techniques of counseling/psychotherapy.</p> <p>Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610 and PSYC 5650/414 or COUN 5650 and PSYC 5640/416 or COUN 5640; accepted as candidate for clinical courses. Completion of all pre-candidacy courses in the program and written application submitted by appropriate deadline.</p>	3	3
COUN 5800	<p>RESEARCH STATISTICS AND PROGRAM EVALUATION (3)</p> <p>Study of research methods, both qualitative and quantitative computer programs for data management and testing; application of program evaluation principles; legal and ethical consideration in research and programs.</p> <p>Prerequisites: PSYC 2080/231 or PSYC 4190/357 or equivalent basic statistics course. Admission to the master's degree program.</p>	3	3
COUN 5810	<p>THEORIES AND PRACTICE OF ADDICTIONS COUNSELING (3)</p> <p>The assessment, etiology, description, understanding, and treatment of addictions. Addresses prevention, education, dual diagnoses, risk assessment, crisis intervention, and</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>issues related to diagnosis and treatment in multicultural populations. Evidence-based individual and group interventions will be studied.</p> <p>Prerequisites: PSYC 5611 or COUN 5611 or PSYC 5610/411 or COUN 5610 or concurrent enrollment.</p>		

COUN 5840	ADVANCED PSYCHOPATHOLOGY (3) The assessment, etiology, description, understanding, and treatment of psychological disorders. Included in the study are schizophrenia, affective and anxiety disorders, substance abuse/dependency, personality disorders, disorders of childhood and adolescence as well as other disorders in the DSM-IV and issues related to diagnosis and evidence-based treatment in multicultural populations. Prerequisites: PSYC 5600/406 or COUN 5600 or PSYC 5610/411 or COUN 5610 or concurrent enrollment.	3	3
COUN 5850	SPECIAL TOPICS IN COUNSELING (3) Seminar focusing on a specific topic in counseling. The exact topic will vary from semester to semester. May be repeated with a different topic (Maximum of six hours).	3	3
COUN 5860	COUNSELING CHILDREN AND ADOLESCENTS (3) Overview of theories and techniques in child/adolescent counseling in experiential and didactic format. Utilizes play media to facilitate expression, self-understanding, personal growth and development. Includes observation and supervised experiences. Additional course fee. Prerequisites: PSYC 5650/414 or COUN 5650 and PSYC 5640/416 or COUN 5640 or consent of the department.	3	3
COUN 5890	INDEPENDENT STUDY IN COUNSELING (3) Independent and/or group studies, relating to student's special interests or programs. Hours are to be arranged. Prerequisites: Admission to the master's degree program and consent of the department.	3	3
COUN 5930	PRACTICUM IN GROUP COUNSELING (3) Supervised training in advanced techniques of group facilitation and group counseling in school and community agencies. Prerequisites: PSYC 5670/423 or COUN 5670; Admission to the master's degree program.	3	3
COUN 5950	PRACTICUM IN COUNSELING II (3) Supervised field placement in counseling/psychotherapy. Minimum of 100 hours of	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>supervised experience required in field placement.</p> <p>Prerequisites: Completion of PSYC 5790/431 or COUN 5790; accepted as a candidate for clinical courses and written application during semester prior to enrollment. Admission to the master's degree program.</p>		
COUN 5990	<p>INTERNSHIP IN SCHOOL COUNSELING (3-6)</p> <p>Supervised field placement in a school setting (K-12). May be taken for three credit hours indicating 300 hours of experience or six credit hours indicating 600 hours of experience. May be taken twice for three credit hours or once for six credit hours of internship.</p> <p>Prerequisites: Completion of all required 400-level courses, passing the Illinois Type 73 Certification Examination in School Counseling, and written application submitted by appropriate deadline. Admission to the master's degree program or The Type 73 Endorsement in School Counseling Certificate Program.</p>	3	3
COUN 5991	<p>INTERNSHIP IN COMMUNITY COUNSELING (3-9)</p> <p>Supervised field placement in a community setting. May be taken for three credit hours requiring 300 hours of experience, 4.5 credit hours requiring 450 hours of experience or six credit hours requiring 600 hours of experience. May be taken three times for three credit hours or other credit hour combinations to total nine credit hours to fulfill the required nine credit hours (and 900 field hours) of internship.</p> <p>Prerequisite: Completion of all required 400-level courses and written application submitted by appropriate deadline. Admission to the master's degree program.</p>	3	3
COUN 5992	<p>THESIS IN GUIDANCE AND COUNSELING (3-6)</p> <p>Supervised research and thesis in guidance and counseling as approved by the department (May be taken in two semesters with three hours per semester for up to six hours).</p> <p>Prerequisites: Completion of all required graduate courses and consent of the department. Admission to the master's degree program.</p>	3	3

Computer Science (CPTR)

Course	Course Description	Credit Hrs.	Contact Hrs.
CPTR 1050	<p>INTRODUCTION TO DATA PROCESSING (3)</p> <p>Basic concepts of data processing, introduction to the modern digital computer and its peripheral devices, data representation and computer arithmetic. Additional course fee.</p>	3	3

CPTR 1060	INTRODUCTION TO PERSONAL COMPUTERS (3) An introduction to personal computer environment using Windows and the Microsoft Office package: Word, Excel, and Power Point, including Web page publishing. Additional course fee.	3	3
CPTR 1065	INTRODUCTION TO PERSONAL COMPUTERS: MAC (3) Macintosh operating system, terminal applications, networking, word processing, spreadsheets, elementary database solutions, iWeb, iMovie, iPhoto, iTunes, podcasts. Prerequisites: Consent of Instructor	3	3
CPTR 1070	INTRODUCTION TO WEB PAGE DESIGN AND DATABASE APPLICATIONS (3) Continuation of CPTR 1060/106, exploring Microsoft Power Point, Access, and Explorer. Using the internet. Web page creation. Additional course fee. Prerequisite: CPTR 1060/106 or consent of department	3	3
CPTR 1080	INTRODUCTION TO HTML / XHTML / DREAMWEAVER (3) Introduction to basic Web design technologies. Client-server architecture, structuring Web pages with HTML / XHTML, representation of multimedia and interactivity, Dreamweaver, Photoshop, Fireworks, and CSS. Additional course fee.	3	3
CPTR 1090	ALGORITHM DEVELOPMENT (3) Introduction to basic concepts of computer science: problem solving skills, algorithm development, programming logic, design. Additional course fee. Prerequisite: Consent of department.	3	4
CPTR 1100	INTRODUCTION TO C++ PROGRAMMING /5 (3) Basic elements of C++ programming, control structures, functions, arrays, pointers, and strings. Additional course fee. IAI: CS 911, ENR 922. Prerequisite: Consent of department.	3	5
CPTR 1120	INTRODUCTION TO WEB SCRIPT PROGRAMMING-JAVASCRIPT / DHTML/ CSS / COLDFUSION MX (3) Interactive and animated Web pages, dynamic HTML, JavaScript, and CSS, scripting access	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	to objects embedded in different applications. Additional course fee. Prerequisites: CPTR 1080, 1090/139		

CPTR 1150	INTRODUCTION TO VISUAL BASIC (3) Windows programming language to create powerful applications for Microsoft Windows operating system to use graphical user interface (GUI), to use other Windows applications' objects (OLEO), and to explain advanced programming techniques such as DE and DLL. Additional course fee. Prerequisite: Consent of department.	3	3
CPTR 1405	CONCEPTS OF COMPUTER TECHNOLOGY (3) Computer Hardware, Software and Network, Installation, Configuration and Troubleshooting Computers and Networks.	3	3
CPTR 1605	DATABASE SOFTWARE AND APPLICATIONS (3) Databases Concepts: Tables, Queries, Forms, Reports, and SQL; Designing and Creating Browser-Based Database Applications by using GUI; Programming Concepts: Classes, Objects, Properties, Methods, and Events.	3	3
CPTR 1705	INFORMATION SECURITY (3) Application; Data and Host security; Identity Management; Cryptography and Access Control; Compliance and Operational Security; Threats and Vulnerabilities; Disaster Recovery and Risk Management.	3	3
CPTR 1900	INTRODUCTION TO COMPUTER PROFESSIONS (1) A survey of career opportunities for computer science professionals in industry, government, and education. Overview of the skills, training, strategies, and education required for the various occupations and computer science curriculum. Introduction to the resources available to aid the computer science major. May not be used to fulfill general education requirements. Prerequisite: CPTR 1100/141 or concurrent enrollment.	1	1
CPTR 2100	ADVANCED C++ PROGRAMMING /5 (3) Classes and data abstraction, operator overloading, inheritance, virtual functions and polymorphisms, templates, file processing. Additional course fee. Prerequisite(s): CPTR 1100/141; CPTR 1900/180 or consent of department.	3	5
CPTR 2120	INTRODUCTION TO MULTIMEDIA (3) Introduction to basic multimedia techniques including hardware and software. Manipulating media information (sound, image, and video) under Windows environment	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>such as analog to digital data conversion and media information capturing. Additional course fee.</p> <p>Prerequisite: CPTR 1100/141.</p>		
CPTR 2130	<p>ADVANCED SCRIPT PROGRAMMING - CGI/PERL/PHP/ASP.NET (3)</p> <p>Server site script to respond to requests from client applications, CGI, PERL, PHP, and ASP.NET. Additional course fee.</p> <p>Prerequisite: CPTR 1120, 1100/141</p>	3	3
CPTR 2150	<p>BUSINESS APPLICATIONS PROGRAMMING (3)</p> <p>Introduction to COBOL data processing computer language. File processing techniques. Retrieval, access, and maintenance of sequential and index files. Data storage manipulation. Methods of system analysis and design. Additional course fee.</p> <p>Prerequisite: CPTR 1100/141.</p>	3	3
CPTR 2400	<p>ASSEMBLY LANGUAGE PROGRAMMING /5 (3)</p> <p>Assembly language and numbering system. Hardware and software architecture. Macro assembler, I/O services. Conditional processing, arithmetic processing. Subroutines. Highlevel language interface. Additional course fee.</p> <p>Prerequisite: CPTR 1100/141.</p>	3	5
CPTR 2550	<p>UNIX APPLICATIONS (3)</p> <p>UNIX operating system: UNIX standardization and implementations; the file system; files and directories; advanced I/O. Some utility programs. Use of Vi editor. Communication with other users. Formatting text. System administrator. UNIX and interprocess communication. Communicating with Post Script printer. Credit not given for both CPTR 312 and CPTR 2550/255. Additional course fee.</p> <p>Prerequisites: CPTR 1100/141</p>	3	3
CPTR 3100	<p>DATA STRUCTURES /5 (3)</p> <p>An introduction to data representations and data structures, followed by a detailed study of operations and applications with character strings (including character sorting, table searching, text editing), linearly linked lists, trees, and graphs. Additional course fee. IAI: CS 921.</p> <p>Prerequisite: CPTR 2100/241 and MATH 2800/283.</p>	3	5
CPTR 3150	<p>OBJECT ORIENTED PROGRAMMING (3)</p> <p>Classes, data encapsulation, inheritance, polymorphisms, OOD/OOP technologies, C++ and other OOP languages. Additional course fee.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: CPTR 2100/241		
CPTR 3330	<p>NUMERICAL METHODS (3)</p> <p>Numerical methods in problems in mathematics, including numerical integration and differentiation, calculation of roots, interpolation, numerical techniques in linear algebra, programming in a high level language. Additional course fee.</p> <p>Prerequisite: CPTR 1100/141 and MATH 1410/261.</p>	3	3
CPTR 3350	<p>COMPUTER GRAPHICS/5 (3)</p> <p>Among the topics covered are line drawing algorithms, tables, clipping algorithms, techniques for motion, and other topics in two-dimensional graphics. Students are required to write programs implementing the techniques discussed. Some evaluation of graphics software may be done as well as an introduction to three-dimensional graphics. Additional course fee.</p> <p>Prerequisite: CPTR 2100/241 and MATH 1210/163 or 1250/171.</p>	3	5
CPTR 3500	<p>INTRODUCTION TO OPERATING SYSTEMS (3)</p> <p>Introduction to the basic components and functions of operating systems, resources management and performance evaluation. Writing Emphasis Course. Additional course fee.</p> <p>Prerequisite: CPTR 2400/305 and 3100/307.</p>	3	3
CPTR 3640	<p>DATABASE PROGRAMMING FOR WEB DEVELOPMENT (3)</p> <p>Multi-layer (2/3) architectures used for web-based applications. Model and design databases, entity-relationship (ER) diagrams, Standard Query Language (SQL), CGI, PERL, PHP, and ASP. Net. Additional course fee.</p> <p>Prerequisites: CPTR 2120/243</p>	3	3
CPTR 3700	<p>COMMUNICATION AND COMPUTER NETWORKS I (3)</p> <p>Digital data flow and error control, multiplexing, switching architecture, satellite communication, network structure and topology, layering, protocols, interfaces, OSI reference model, IEEE 802 LAN. Writing Emphasis Course. Additional course fee.</p> <p>Prerequisite: CPTR 2550/255</p>	3	3

CPTR 4130	MOBILE APPLICATIONS DESIGN AND DEVELOPMENT (3) Mobile applications, service designs, platforms (Apple iOS, Google Android, et al.), specific constraints and requirements of user interface design for limited devices. The course combines conceptual overview, design issues, and practical development issues.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: CPTR 2100/241 or CPTR 2120/243		
CPTR 4200	COMPUTER ALGORITHMS (3) Design and analysis of algorithms. Searching, sorting, and combinatorial algorithms. Time and space complexity. Additional course fee. Prerequisite: CPTR 3100/307	3	3
CPTR 4210	THEORY OF COMPUTATION (3) Regular expressions and languages; finite-state machines; formal grammars; regular, context-free, context-sensitive, and unrestricted grammars; pushdown automata; contextfree languages; Turing machines; Church's thesis; random-access machines; recursive functions; P-completeness problem; intractable problems. Additional course fee. Prerequisites: Math 2800/283 Co-requisite: CPTR 3100/307	3	3
CPTR 4220	PROGRAMMING LANGUAGES (3) Language syntax; lexical properties, BNF, and parsing examples; language processors; compilers, interpreters, and direct execution; language representation and language styles. Course work require writing in the IEEE format a significant project and its presentation. Additional course fee. Satisfies senior thesis requirement. Prerequisite: CPTR 3100/307.	3	3
CPTR 4250	INTRODUCTION TO SUN CERTIFIED JAVA ASSOCIATE (3) Introduction to SCJA Exam: Fundamental object-oriented concepts, UML representation and Java implementation of object-oriented concepts, algorithm design and implementation, Java development fundamentals, Java platforms and integration technologies, client technologies, server technologies. Prerequisites: CPTR 2100/241 or consent of the instructor.	3	3

CPTR 4260	INTRODUCTION TO JAVA PROGRAMMER CERTIFICATION (3) Introduction to SCJP or OCPJP Exams: Fundamentals, Declarations, Initialization and Scoping, Flow Control, OO Concepts, API Contents, Concurrency, Collections / Generics. Prerequisites: CPTR 2100/241 or CPTR 2120/243	3	3
CPTR 4310	PATTERN RECOGNITION (3) Decision theory, parameter estimation, supervision learning, nonparametric methods, clustering, unsupervised learning, introduction to image processing. Additional course fee. Prerequisite: CPTR 3100/307; and MATH 1600/210 or 4600/315.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
CPTR 4320	INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3) Problem representation, problem solving, game playing, knowledge representation, and predicate calculus, resolution and refutation, expert systems, robot problem solving, A.I. languages (LISP and/or PROLOG). Additional course fee. Prerequisite: CPTR 3100/307.	3	3
CPTR 4340	MODELING AND SIMULATION (3) Simulation methodology, techniques of random number generation, discrete system simulation, simulation languages, model validation, and case studies. Additional course fee. Prerequisite: CPTR 3100/307; and MATH 1600/210 or 4600/315.	3	3
CPTR 4400	COMPUTER ORGANIZATION (3) Introduction to hardware concepts of digital computation: logical design, data representation, and transfer. Digital arithmetic, input-output facilities, system organization. Additional course fee. IAI: CS 922. Prerequisite: CPTR 2400/305.	3	3
CPTR 4600	INTRODUCTION TO DATABASE SYSTEMS (3) Database system architecture. Relational, hierarchical, network database models. Query languages and data definition languages. Security and system evaluation. Case studies. Additional course fee. Prerequisite: CPTR 1100/141 and consent of the instructor.	3	3

CPTR 4620	RELATIONAL DATABASE AND MANAGEMENT (3) Relational data model. Normalization. SQL. Concurrent control. Query optimization. Emphasis in laboratory work including system development using a software package. Additional course fee. Prerequisite: CPTR 4600/357 Co-requisite: CPTR 3100/307	3	3
CPTR 4700	COMMUNICATION AND COMPUTER NETWORKS II (3) Local area network topology. Protocols. Access media. Client/server. Network management and trouble shooting. Novel network. TCP/IP. Open system. Emphasis in laboratory work. Additional course fee. Prerequisite: CPTR 3700/356.	3	3
CPTR 4710	NETWORK SECURITY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Computer systems, network, and data security; formal definitions of security, privacy, and integrity; risk assessment and management; establishing security policies; securing the infrastructure; perimeter security components; encryption technology overview; coding, cryptography, and crypto-analysis; authentication methods and digital signatures; network security management tools; malicious software (e.g. viruses and logic bombs); audit and control methods; legal factors; databases and inference controls; security kernels and verification methods; internet/intranet firewalls. Additional course fee. Prerequisite: CPTR 3700/356		
CPTR 4720	NETWORK ADMINISTRATION (3) Simple network management protocol; structure and identification of management information bases; managing interfaces; address translation; IP addresses; ICMP, TCP, and UDP management; gateway protocol management; reporting SNMP traffic; managing the Ethernet; token ring; FDDI; PPP; X.25 and the frame relay interface; bridge management. Additional course fee. Prerequisites: CPTR 3700/356	3	3

CPTR 4730	TCP/IP INTER-NETWORKING AND APPLICATIONS (3) The OSI model and TCP/IP protocol; TCP/IP architecture; IP addressing, subnetting, and routing. ARP and RARP address resolutions; internet control message protocol; user datagram protocol; routing protocols; application layer and client-server model; domain name system; file transfer protocol; simple mail transfer protocol; Telnet remote login; network security. Additional course fee. Prerequisite: CPTR 3500/355	3	3
CPTR 4740	PRINCIPLES OF WIRELESS COMMUNICATIONS (3) Comprehensive description of the concepts used in modern wireless and cellular systems. Topics include wireless channel models, multi-access issues, such as FDMA, TDMA and CDMA with a brief view of GSM, descriptions of digital transmission methods in wireless, receiver diversity, channel estimation and multi-user detection. Methods to increase the data rate: antenna diversity and sectorization. Spread spectrum for digital cellular personal communications and wireless LAN applications. Prerequisites: CPTR 3700/356 or Consent of Instructor.	3	3
CPTR 4750	SYSTEM ADMINISTRATION FOR WEB/DATABASE SERVERS (3) Installation and maintenance of web and database servers; configuration of web and database servers; software installation; application and database backups; security and access control. Additional course fee. Prerequisites: CPTR 3640 and CPTR 3700/356	3	3
CPTR 4800	SOFTWARE ENGINEERING (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Project management fundamentals; software design and development; software life cycle; tools for verification and validation software; software metrics, project estimation, testing methods and strategies; walkthrough and inspection; object-oriented software engineering. Additional course fee. Prerequisites: CPTR 2100/241		
CPTR 4820	SYSTEMS ANALYSIS AND DESIGN (3) An introduction to the system development life cycle. Emphasis on strategies and techniques of system planning, analysis form and file design, documentation, implementation and evaluation. Additional course fee. Prerequisite: CPTR 2100/241 or 2150/250.	3	3

CPTR 4900	SPECIAL TOPICS IN COMPUTER SCIENCE (1-3) Computer science topics of current interest. May be repeated for credit with a different topic. Additional course fee. Prerequisite: To be determined by instructor and consent of the department.	1	1
CPTR 4920	COMPUTER SCIENCE INTERNSHIP (3-6) A student project or activity in a computer science environment outside the Department where the techniques of computer science are applied in an essential way. Activity to be performed must be approved in advance by the department. A written final report is required. Additional course fee. Prerequisite: Grade of C or higher in three 300-level computer science courses, earned 80 semester hours toward the bachelor's degree and major in computer science; or consent of the department.	3	3
CPTR 5200	ALGORITHM THEORY AND ANALYSIS (3) The derivation of theoretical results and their application to designing of efficient algorithms. Topics include: algorithm verification and efficiency of sorting; tree structures, network problems, pattern matching. Additional course fee. Prerequisite: CPTR 3100/307	3	3
CPTR 5210	GRAPH THEORY FOR DATA SCIENCE (3) Directed and undirected graphs, paths, cycles, trees, connectivity, Eulerian cycles, matchings, coverings, coloring, planarity, with applications to data science and computer science. Prerequisite(s): Consent of department.	3	3
CPTR 5250	AUTOMATA THEORY, LANGUAGES, AND COMPUTATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Formal languages, finite-state control machine, regular expressions and languages, Turing machines, push-down automata, context-free languages, feasible problems, p-complete theory; basic recursive functions theory, computational complexity theory, intractable problems. Additional course fee. Prerequisite: CPTR 3100/307, CPTR 4210/317.		

CPTR 5360	MACHINE LEARNING IMPLEMENTATION (3) Overview of learning theory, reinforcement learning and adaptive control, supervised learning and unsupervised learning, and application and implementation of machine learning. Credit cannot be received for both MATH 5825 and CPTR 5360; they are equivalent courses. Prerequisite(s): CPTR 4320/372 or CPTR 5680/447; or consent of department.	3	3
CPTR 5365	DEEP LEARNING IMPLEMENTATION (3) Overview of deep learning including feature learning and neural computation, algorithms, applications and software implementation, and advances in Artificial Intelligence. Credit cannot be received for both MATH 5830 and CPTR 5365; they are equivalent courses. Prerequisite(s): CPTR 4320/372 or CPTR 5680/447; or consent of department.	3	3
CPTR 5400	COMPUTER SYSTEM ARCHITECTURE (3) Fundamentals of computer design, instruction set architecture, pipeline architecture and instruction-level parallelism, memory-hierarchy design, instruction execution and synchronization, micro-operations, vector and parallel processors, storage systems, multiprocessors, RISC architecture. A term project involving the design and implementation of a model computer. Additional course fee. Prerequisite: CPTR 4400/333	3	3
CPTR 5510	NETWORK OPERATING SYSTEM DESIGN (3) Continuation of CPTR 5550/460. Additional topics include telecommunication and networking operating system principles and coding. Additional Course fee. Prerequisite: CPTR 5550/460	3	3
CPTR 5520	PARALLEL PROCESSING AND APPLICATIONS (3) Parallel architecture, parallel computations across hardware platforms, parallel programming, parallel algorithms, concurrent distributed systems, applications to solve computationally intensive problems in a variety of disciplines. Prerequisites: CPTR 3100/307 or consent of department.	3	3
CPTR 5550	ADVANCED OPERATING SYSTEMS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Review of a standard operating system source code. Topics include: Memory management, process management, inter-process coordination and synchronization. Writing, modifying, and implementing operating system source code constitute a significant part of the course. Additional course fee.</p> <p>Prerequisites: CPTR 3500/355</p>		
CPTR 5580	<p>CONCURRENT SYSTEMS (3)</p> <p>Multi-core architectures and applications, distributed and concurrent systems, concurrency and parallelism, processes and threads, high-performing multi-threaded applications, progress guarantees, and the implementation of concurrent programming practices.</p> <p>Prerequisite(s): CPTR 3500/355</p>	3	3
CPTR 5600	<p>ADVANCED DATABASE DESIGN AND IMPLEMENTATION (3)</p> <p>Functional dependencies and normalization for relational databases, practical database design and tuning, query processing and optimization, transaction processing concepts, concurrency control techniques, database recovery techniques, database security and authorization, enhanced data models for advanced application. Additional course fee.</p> <p>Prerequisite: CPTR 4600/357</p>	3	3
CPTR 5610	<p>DATABASE ADMINISTRATION (3)</p> <p>Database Administration and the Database Architecture. Install and maintain databases with Performance Monitoring/Tuning, Database Security, User Management, and Backup/Recovery Techniques. Option of partially fulfilling the requirements of the course with an industrial or Government partner.</p> <p>Prerequisite(s): CPTR 5600/440</p>	3	3
CPTR 5620	<p>BUSINESS INTELLIGENCE AND ANALYTICS (3)</p> <p>An information technology approach to data collection and data analysis to support a wide variety of management tasks from performance evaluation to trend spotting and policy making. Students learn analytical components and technologies used to create dashboards and scorecards, data/text mining methods for trend and sentiment analysis, and artificial intelligence techniques used to develop intelligent systems for decision support.</p> <p>Prerequisite(s): CPTR 3700/356 and CPTR 4600/357</p>	3	3
CPTR 5660	<p>OBJECT-ORIENTED DATABASE (3)</p> <p>Object-oriented data models, query languages, the ORION Model: its evolution and authorization, query processing, storage management and indexing techniques, object-</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	oriented database systems. Additional course fee. Prerequisite: CPTR 4600/357		
CPTR 5665	NOSQL DATABASES, INTRODUCTION (3) Data Modeling, SQL Programming, the concepts and features of NoSQL Databases and the Fit for Big Data. Five data Models and Database Systems Relational/Object, Key/Value, Document, Columnar, and Graph are Employed by NoSQL Databases. Prerequisite(s): CPTR 4600/357 or consent of department.	3	3
CPTR 5666	BIG DATA ANALYTICS (3) Structure of Big Data & its Components, Problems in Analyzing the Big Data & Alternative Architectures to Address Big Data Analysis, Big Data Architectures, Big Data Distributed File System, Effective Storage of Large Volumes of Data, Map Reduce for Distributed framework, and NoSQL. Prerequisite(s): CPTR 5600/440 or CPTR 5665	3	3
CPTR 5667	ADVANCED BIG DATA ANALYTICS (3) Architectures designed to handle real time processing, tools to address the real time needs, Kafka messaging to define multiple consumers with different offsets, Spark framework in maintaining the single source code to handle both real time & batch wise processing of input data and stored data in compressed optimized row columnar format. Storing data in various types and techniques in NoSQL for advanced analytics. Prerequisite(s): CPTR 5666	3	3
CPTR 5670	DISTRIBUTED DATABASE SYSTEMS (3) Distributed database concepts, techniques, and types, data fragmentation, replication, and allocation techniques for distributed databases, query processing and languages, concurrency control and recovery, client-server architecture and its relationship to distributed databases, the ORION model. Additional course fee. Prerequisite: CPTR 4600/357	3	3
CPTR 5680	DATA WAREHOUSING AND DATA MINING (3) Principles, concepts, and physical and logical architecture of data warehousing, risk, failures, infrastructure, and design techniques, creating and unlocking the data asset for end users, designing and implementing business information warehouses, data warehouse physical structure, methodology, organization, and management. Additional course fee. Prerequisite: CPTR 4600/357	3	3

CPTR 5710	CLOUD COMPUTING ARCHITECTURE (3)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Cloud computing architecture core distribution concepts used inside clouds, cloud applications and auto scaling features and virtualization, security, fault tolerance and outage studie in clouds.</p> <p>Prerequisite(s): CPTR 3700/356 and CPTR 4600/357</p>		
CPTR 5715	<p>DEVELOPING CLOUD BASED SOLUTIONS (3)</p> <p>Design and implement web apps in Cloud, create and manage virtual machines, create database service, design and implement cloud services, design and implement a storage strategy, manage application and network services.</p> <p>Prerequisite(s): Consent of department.</p>	3	3
CPTR 5730	<p>MOBILE COMMUNICATION AND SECURITY (3)</p> <p>Techniques for mobile communications and security: threats, hacking, viruses, access control and authentication, and common techniques for security. Attach and protection techniques in mobile communication networks: security of GSM networks, 3G networks, and wireless local area networks. Security of network based services.</p> <p>Prerequisites: CPTR 4710 or consent of instructor.</p>	3	3
CPTR 5740	<p>INTERNET OF THINGS (Io T) (3)</p> <p>Characteristics, technologies and architectural principles of Internet of Things (Io T), the internet-connected physical and virtual objects, real-world intelligent applications of the Io T.</p> <p>Prerequisite(s): CPTR 4750</p>	3	3
CPTR 5750	<p>ADVANCED TCP/IP NETWORK ARCHITECTURE (3)</p> <p>An advanced study of the architecture principles and mechanisms required for the exchange of data. Topics include: architecture, access protocols, inter-working, transport and presentation protocols, simple network management protocol, management information bases, managing interfaces, managing the exterior gateway protocol. Additional course fee.</p> <p>Prerequisite: CPTR 4730/368 and 5550/460</p>	3	3

CPTR 5760	ADVANCED NETWORK SECURITY AND PRIVACY (3) Network security practice, electronic mail security, IP security, web security, network services attacks methods, auditing and detection, Internet and intranet firewalls, firewalls design and implementation, security policy, proxy servers, firewall architectures, maintenance and tools. Case studies and projects about cryptography and network security. Additional course fee. Prerequisite: CPTR 4710/362	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
CPTR 5770	CRYPTOGRAPHY I (3) Symmetric and public-key cryptography and how they are used to achieve security goals and build PKI (Public-Key Infrastructure) systems. DES, 3DES, AES, RC4, RSA, ECC, MD5 SHA-1, digital signatures, and all cryptographic primitives necessary to understand PKI. Diffie-Helman key exchange and man-in-the-middle attacks. Prerequisites: CPTR 3700/356 or Consent of Instructor.	3	3
CPTR 5772	INFORMATION SECURITY TECHNOLOGY (3) Security devices and tools such as intrusion detection systems and firewalls to solve the most pressing information security problems. Key information security technologies and the context needed for deploying them successfully. Prerequisites: CPTR 3700/356 or Consent of Instructor.	3	3
CPTR 5800	ADVANCED SOFTWARE ENGINEERING (3) Provides a theory and a set of techniques that will help the software engineer build systems and applications of high quality. Topics include: managing software projects, project planning and metrics, methods and strategies, technical metrics for software, software reuse, re-engineering, CASE Tools, client/server soft-ware engineering. Additional course fee. Prerequisite: CPTR 4800/339	3	3
CPTR 5810	ENTERPRISE ARCHITECTURE (3) Concepts, purposes and framework of Enterprise Architecture. Exploration of the analysis, design, planning and implementation, assessment and management of enterprise IT solutions. Prerequisite(s): CPTR 4800	3	3

CPTR 5820	ALGORITHMS AND SOFTWARE ENGINEERING WITH WEB-BASED APPLICATIONS (3) Design, analysis, measurements, and complexity of algorithms; software engineering lifecycle and its applications to web-based architectures. Prerequisites: CPTR 4200/309 and 4800/339.	3	3
CPTR 5850	SOFTWARE PROJECT MANAGEMENT (3) The development of models and tools to improve productivity and quality of the process. Topics include: Algorithmic cost estimation models and functions, risk analysis and management, CASE tools applications to project management, object-oriented concepts applied to management, management of software reuse and maintenance, software capability maturity model. Case studies. Additional course fee.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: CPTR 5800/420		
CPTR 5860	SOFTWARE MEASUREMENT AND RELIABILITY (3) Modeling of software and systems reliability, techniques for prediction, analysis and recalibration of software, best current practice of SRE, measurement-based analysis of software reliability, software complexity and software quality, software testing and reliability, fault-tolerant software reliability engineering, software reliability simulation, neural networks for software reliability engineering, software reliability tools. Additional course fee. Prerequisite: CPTR 4800/339; MATH 1600/210 or 4600/315	3	3
CPTR 5950	GRADUATE SEMINAR (3) Conducted by graduate faculty of the department. The course may be repeated under a different topic with the permission of the department. Option of partially fulfilling the requirements of the course with an industrial or Government partner. Prerequisite: Consent of department.	3	3

CPTR 5990	THE GRADUATE COMPUTER SCIENCE EXPERIENCE (1-3) An individualized computer science course which is normally among the last courses taken by master's candidates. The content is variable, an expository paper, a project, a historical paper, a field experience in computer science, or other acceptable topic. Option of partially fulfilling the requirements of the course with an industrial or Government partner. Includes project presentation. Initial course registration of three (3) credits; may be repeated for 1-3 credits to a maximum of six (6) credits. Additional course fee. T grade. Prerequisite: Twenty-one graduate-level credit hours in computer science, including all the other required core courses, consent of department.	1	1
CPTR 5995	MASTER'S THESIS (1-6) Research under the supervision of a thesis committee led by a regular faculty member of the department leading to a successful viva voce and completion of a thesis. The formalities of theses are governed by Graduate School's and departmental policies and regulations. Refer to the Graduate Students' Handbook. Option of partially fulfilling the requirements of the thesis with an industrial or Government partner. Register for six (6) credit hours in one semester or over two semesters for three (3) credit hours in each semester. T grade. Prerequisites: Approval of graduate advisor.	1	1

Early Childhood Elem Ed (ECEE)

Course	Course Description	Credit Hrs.	Contact Hrs.
ECEE 5000	INDEPENDENT STUDY AND RESEARCH (3) Provides the student an opportunity to pursue an investigation in a specific area of concern which is conducted in close consultation with a member of the faculty. Prerequisite: Restricted to master's degree candidates.	3	3
ECEE 5462	FIELD PRACTICUM/FIELD (3) Supervised experience in field work with children. Periods to be arranged. Prerequisite: Restricted to master's degree candidates.	3	3
ECEE 5466	MASTER'S PROJECT/THESIS (3) Research and writing of thesis or project for master's degree. Student must continue to register for the course until thesis is completed. Prerequisite: Normally taken after the completion of 24 credit hours in the program.	3	3

Early Childhood (ECH)

Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 2990	<p>INDEPENDENT STUDY (1-3)</p> <p>Individually supervised study of selected topics.</p> <p>Prerequisite: Consent of advisor, admission to early childhood education program, and junior standing.</p>	1	1
ECH 3092	<p>ILLINOIS EARLY CHILDHOOD EDUCATION TEACHER CERTIFICATION REVIEW (1)</p> <p>Review of early childhood education theory and practice in preparation for the State Teacher Certification Examination. May not be counted for degree credit.</p> <p>Prerequisite: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.</p>	1	1
ECH 4000	<p>FOUNDATIONS FOR INSTRUCTION IN EARLY CHILDHOOD EDUCATION (3)</p> <p>Formulation of instructional objectives, lesson planning, unit development, and assessment techniques in early childhood. Writing emphasis course.</p> <p>Prerequisite: Pass the English placement examination.</p>	3	3
ECH 4001	<p>HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION (3)</p> <p>Historical and philosophical foundations underlying the development and organization of early childhood education in the United States. Contemporary influences of early childhood education programs, including field visits.</p> <p>Prerequisite: ELCF 1520/152.</p>	3	3
ECH 4002	<p>THE YOUNG CHILD /FIELD (3)</p> <p>Principles and concepts of development and learning in children ages 0-8. Emphasis on the whole child including integration of physical, cognitive and social-emotional development. Fifteen hours of field observation. Writing emphasis course.</p> <p>Prerequisite: PSYC 2040/204 or consent of the department.</p>	3	3
ECH 4008	<p>CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)</p> <p>Methods and techniques for providing creative experiences in the classroom and integrating literature, music and art activities in programs for young children.</p> <p>Prerequisite: ART 1100/101; MUS 1134/134; ECH 4002/302 and admission to the College of Education.</p>	3	3

ECH 4009	SPEECH AND LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD (3) Understanding of language acquisition and development. Emphasis on methods used to	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	facilitate language development. Prerequisite: ECH 4000/300, ECH 4001/301, ECH 4002/302 and ECH 4304/304.		
ECH 4120	READING AND LANGUAGE ARTS FOR THE YOUNG CHILD (3) Methods and materials for encouraging language development and reading language arts learning. Writing emphasis course. Prerequisite: ECH 4009/309 or consent of the department. Admission to the College of Education.	3	4
ECH 4150	CHILD, FAMILY AND COMMUNITY RELATIONSHIP (3) Family patterns and their influences on the child. Parent-school relationships and parent education. Community influences and resources. Prerequisite: ECH 4000/300, ECH 4001/301, ECH 4002/302 and ECH 4304/304.	3	3
ECH 4170	NUTRITION, HEALTH AND SAFETY OF THE YOUNG CHILD (3) Nutrition, health, and safety concerns of young children in an institutional setting with emphasis on providing nutrition, health, and safety education to young children. Cannot receive credit for both ECH 316 and ECH 4170/317. Prerequisite: ECH 4002/302 or consent of the department.	3	3
ECH 4180	METHODS OF INSTRUCTION AT THE PRE-PRIMARY (4) Methods and materials for teaching mathematics, science, and social studies at the preprimary level. Prerequisite: ECH 4002/302 or consent of the department; admission to the College of Education.	4	4
ECH 4220	ADMINISTRATION AND SUPERVISION OF CHILD CARE SERVICES (3) For teachers and administrators of programs for young children. Models of programs for young children, scheduling, staffing, record-keeping, standards, licensing practices, building and budget needs. Parent-teacher (home-school) relationship and cooperation. Prerequisite: Consent of the department.	3	3

ECH 4240	CHILDHOOD EDUCATION (3) Developmental theories of early childhood and their implications for school practice in pre-kindergarten and in primary programs. Observations in a variety of settings. Prerequisite: Consent of the department.	3	3
ECH 4304	INFANT/TODDLER DEVELOPMENT AND PROGRAMMING (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Development from conception through toddlerhood to age three. Emphasis on study of developmental domains in cultural context: perceptual, motor, cognitive (including brain), language, mental health, temperament, and social-emotional. Examination of systems which influence the continuum of healthy growth and development that impact programming. Integration of age-appropriate curricula and assessment. Prerequisite: PSYC 2040/204 or consent of Department.		
ECH 4305	INFANT TODDLER CURRICULUM AND ENVIRONMENTS (3) Examination of curricular models, instructional materials that foster the development of infants and toddlers and strategies for managing infant and toddler learning environments. Prerequisites: ECH 4000/300 and ECH 4304/304.	3	3
ECH 4310	LITERATURE FOR YOUNG CHILDREN (3) Designed to acquaint the teacher of young children with the wide variety of available literature and its many uses in the prekindergarten, kindergarten and primary years. Prerequisite: Successful completion of the English and reading qualifying examination.	3	3
ECH 4319	METHODS OF INSTRUCTION AT THE PRIMARY LEVEL (4) Methods and materials for teaching mathematics, science, and social studies at the primary level. Prerequisite: ECH 4002/302 or consent of the department; admission to the College of Education.	4	4
ECH 4340	MONTESSORI METHOD (3) Overview of Montessori philosophy, materials, methods, and curriculum. Prerequisite: Consent of the department.	3	3

ECH 4401	HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION (3) Historical and philosophical foundations underlying the development and organization of early childhood education in the United States. Contemporary influences of early childhood education programs. Prerequisite(s): ENG 1270/127	3	3
ECH 4402	CHILD DEVELOPMENT I - AGES 0-3 (3) Continuum of development from conception through toddlerhood, age 3. Emphasis on study of developmental domains, including perceptual, motor, cognitive, brain, language, social-emotional development, mental health and temperament, in the context of culture and social systems which influence the continuum of healthy growth and development and the theoretical foundations which support knowledge and research in child development.	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Observational data collection and 25 field hours required. Prerequisite(s): ENG 1280/128 and ECH 4401/4001; consent of department.		
ECH 4403	HEALTH SAFETY NUTRITION IN EARLY CHILDHOOD EDUCATION (3) Examination of nutrition, health and safety practice, including study of health related issues, use and implementation of Illinois Health and Physical Development Learning Standards, and development of safety, nutrition, health and physical development/fitness education in children ages 0-8. Emphasis on collaboration with families to support wellness within a social and cultural context. Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002; consent of department.	3	3
ECH 4404	FOUNDATIONS OF INSTRUCTION FOR CHILDREN AGES 0-8 (3) The importance of applying knowledge of developmental across all domains to the creation of early childhood environments and learning experiences that support the growth and development of all children. 15 field hours. Writing emphasis course. Prerequisite(s): ENG 1280/128 and consent of department.	3	3

ECH 4405	CHILD DEVELOPMENT II AGES 3-8 (3) Continuum of development in children ages 3-8. Emphasis on study of developmental domains, including perceptual, motor, cognitive, brain, language, social-emotional development, mental health and temperament, in the context of culture and social systems which influence the continuum of healthy growth and development and the theoretical foundations which support knowledge and research in child development. Observational data collection and 15 field hours required. Writing emphasis course. Prerequisite(s): ENG 1270/127	3	4
ECH 4406	CHILD FAMILY AND COMMUNITY RELATIONSHIPS (2) Examination of family, culture, communities and social systems, the strengths, resources and vulnerabilities of these system and how they influences children's development and academic success and the functioning of care and educational systems. Strategies for developing effective partnerships with families and with other school professionals and for advocating for children, families and the profession. Prerequisite(s): ECH 4401/4001, ECH 4402/4304 and ECH 4405/4002; consent of department. Co-Requisite(s): ECSE 4407	2	2
ECH 4408	SPEECH AND LANGUAGE DEVELOPMENT FOR CHILDREN 0-8 (2) Participants develop an understanding of language acquisition and development in	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	children ages 0-8. All aspects of communication are explored with an emphasis on appropriate and culturally responsive methods to facilitate language development. Connections to emergent literacy and support for children with communication challenges. Fifteen (15) field hours. Prerequisite(s): ECH 4401/4001, ECH 4402/4304 and consent of department.		
ECH 4410	LITERATURE AND INFORMATIONAL TEXT FOR CHILDREN AGES 0-8 (3) Designed to acquaint the teacher of young children ages 0-8 with the wide variety of available literature and informational text which is developmentally and culturally appropriate, effective selection criteria and uses of literature and informational text in developing literacy, content knowledge and critical thinking skills. Ten (10) field hours. Prerequisite(s): ENG 1280/128 Co-requisite(s): ECH 4412/4008	3	4

ECH 4411	METHODS FOR DEVELOPING INFANT TODDLER CURRICULUM (3)	3	4
	<p>Examination of curricular models and instructional materials that foster the development of infants and toddlers across all domains. Strategies will be explored for creating and managing infant and toddler learning environments which are responsive to the needs of all children. Emphasis on collaboration with families and other professionals. 25 field hours required.</p> <p>Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4406/4150, ECH 4408/4009, ECH 4410/4310 and ECH 4412/4008; ECSE 4407/4150 and ECSE 4409/4309; consent of department.</p>		
ECH 4412	METHODS OF TEACHING FINE ARTS PRE-K - GRADE 2 (2)	2	3
	<p>Application of the fine arts learning standards to design age and culturally appropriate fine arts experiences which facilitate children's exploration and creative expression in PreK to Grade 2. Emphasis on interdisciplinary planning and instruction using the elements, materials and media which comprise the fine and performing arts. 10 field hours required.</p> <p>Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002 and ECH 4412/4008; ECSE 4009; ART 1100/101 and MUS 1134/134 or consent of department.</p> <p>Co-requisite(s): ECH 4410</p>		
ECH 4413	METHODS OF TEACHING SOCIAL STUDIES PRE-K TO GRADE 2 (2)	2	3
	<p>Thorough examination of the current learning standards for social studies. Experience in their use to develop and implement instructional methods and materials in teaching history, government, geography and economics in PreK to Grade 2. Course will emphasize discipline specific and age appropriate pedagogies and interdisciplinary planning and instruction. 10 field hours required.</p>		

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4410/4310, ECH 4412/4008; POL 1010/101; GEOG 1100/110 and HIST 1310/131 or consent of department.</p> <p>Co-requisite(s): ECH 4414, ECH 4415 and ECH 4416.</p>		

ECH 4414	METHODS OF TEACHING SCIENCE PRE-K TO GRADE 2 (2) Thorough examination of the current learning standards for science and their use in developing and implementing instructional methods and materials in teaching physics, earth, space and biological sciences in PreK to Grade 2. Course will emphasize age appropriate, discipline specific pedagogy and interdisciplinary planning and instruction. 10 field hours required. Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4410/4310, ECH 4412/4008; PH S 1100/110, PH S 1140/114 and BIOL 1510/151 or consent of department. Co-requisite(s): ECH 4413, ECH 4415 and ECH 4416.	2	3
ECH 4415	METHODS OF TEACHING MATHEMATICS PRE-K - GRADE 2 (3) Examination of the current mathematics learning standards and their use in development of age-appropriate, discipline specific and interdisciplinary pedagogy, planning for teaching the five strands of mathematical proficiency (perceptual understanding, procedural fluency, strategic competence, adaptive reasoning and productive dispositions) in PreK to Grade 2. 10 field hours required. Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4410/4310, and ECH 4412/4008; MATH 1010/140 and MATH 1020/141 or consent of department. Co-requisite(s): ECH 4413, ECH 4414 and ECH 4416.	3	4
ECH 4416	METHODS OF READING AND LANGUAGE ARTS PRE-K - GRADE 2 (3) The development of communications skills will be explored as the foundation for literacy and language arts. Participants will use a variety of instructional strategies for the teaching of reading and writing, create, plan and implement learning experiences (e.g., assessments, integrated interdisciplinary unit) that are developmentally appropriate and culturally responsive. Writing emphasis course. 10 field hours. Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4406/4150, ECH 4408/4009, ECH 4410/4310, ECH 4411/4305 and ECH 4412/4008; ECSE 4407/4150 and ECSE 4409/4309 or consent of department. Co-requisite(s): ECH 4413, ECH 4414 and ECH 4415.	3	4
ECH 4419	SCREENING ASSESSMENT AND EVALUATION PRE-K - GRADE 2 (3)	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Exploration of formal assessments and utilization of normative assessment data. Formal, informal and authentic assessments will be administered in the collection and analysis of data for completion of a comprehensive case study. Informal, authentic assessments will be developed to determine the impact on learning of instruction implemented during practicum, taken concurrently with the course. 10 field hours.</p> <p>Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4404/4000, ECH 4405/4002, ECH 4406/4150, ECH 4408/4009, ECH 4410/4310, ECH 4411/4305, ECH 4412/4008, ECH 4413, ECH 4414, ECH 4415 and ECH 4416/4120; ECSE 4407/4150 and ECSE 4409/4309 or consent of department.</p> <p>Co-requisite(s): ECH 4445</p>		
ECH 4445	<p>FIELD PRACTICUM PRE-K GRADE 2 (3)</p> <p>Supervised experience in prekindergarten and primary classrooms designed for candidates to implement teaching and learning strategies acquired in methods courses. Course includes development of classroom management strategies, examination of school policies. 100 field hours. To be taken the long semester prior to student teaching.</p> <p>Prerequisite(s): ECH 4401/4001, ECH 4402/4304, ECH 4403/4170, ECH 4404/4000, ECH 4405/4002, ECH 4406/4150, ECH 4408/4009, ECH 4410/4310, ECH 4411/4305, ECH 4412/4008, ECH 4413, ECH 4414, ECH 4415 and ECH 4416/4120; ECSE 4407/4150 or consent of department. No fewer than 100 field hours.</p> <p>Co-requisite(s): ECH 4419; ECSE 4417 and ECSE 4418; BIL 4015 and BIL 4017.</p>	3	3
ECH 4450	<p>STUDENT TEACHING AND SEMINAR IN PRE-K TO GRADE 2 (6)</p> <p>Field placement in a preschool setting (pre-k) and primary grade (k-2) classroom. University and field-based cooperating school supervision. Five full days per week, including seminar for 16 weeks. Full assumption of all classroom responsibilities for two full weeks of each placement. No other course may be taken during the semester of student teaching. The course requires an Impact on Student Learning/Capstone Project. Field hours: 16 weeks, all day, 5 days/week.</p> <p>Prerequisite(s): All required program courses.</p>	6	6
ECH 4550	<p>INTRODUCTION TO INFANT MENTAL HEALTH (3)</p> <p>Introduction to infant the healthy social and emotional development of children from birth to 3 years. Research, principles of infant mental health practices, risk and protective factors, assessment, intervention and support of very young children in the context of their families will be addressed.</p>	3	3
ECH 4640	<p>FIELD PRACTICUM IN CHILD / FAMILY STUDIES PROGRAMS / FIELD (3)</p> <p>Supervised hands on experience with children from birth to age 8 and their families in a variety of settings such as child care programs, government and community agencies,</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>hospitals, advocacy, parks and recreation facilities. A minimum of one hundred clock hours in the field and seminars. To be taken the term prior to clinical experiences in Child/Family Studies Programs. Cannot be used for teacher licensure.</p> <p>Prerequisites: Completion of all professional coursework and consent of the department.</p>		
ECH 4650	<p>INTERNSHIP IN CHILD / FAMILY STUDIES PROGRAMS / FIELD (6)</p> <p>Supervised full time placement in an early childhood related setting. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of clinical experiences. The course requires a Capstone Project. Cannot be used for teacher licensure.</p> <p>Prerequisites: Completion of all other coursework in the program, 2.5 GPA in all coursework satisfying program requirements. 3.0 GPA in all the required professional coursework and consent of the department.</p>	6	6
ECH 4740	<p>FIELD PRACTICUM IN EARLY CHILDHOOD EDUCATION /FIELD (3)</p> <p>Supervised hands-on experience in early childhood classroom designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. One hundred clock hours in the field. To be taken the long semester prior to student teaching.</p> <p>Prerequisite: Admission to the College of Education; Completion of a minimum of two (2) of the following courses: ECH 4008/308, 4120/312, 4180/318, 4319/319 and concurrent enrollment in the remaining; consent of the department.</p>	3	3
ECH 4750	<p>STUDENT TEACHING / SEMINAR EARLY CHILDHOOD / FIELD (6)</p> <p>Off-campus placement in a preschool setting (pre-K) and primary grade (K-3) classroom. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other course may be taken during the semester of student teaching. The course requires an Impact on Student Learning Capstone Project.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the concentration, in professional education, and in all course work required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6

ECH 4850	SCREENING, ASSESSMENT AND EVALUATION OF YOUNG CHILDREN (3) General introductory course in screening, assessment and evaluation of young children in early childhood education. All major tests for screening young children are presented: intelligence, fine and gross motor development, social-emotional development, physical development, and language. Extensive testing outside of class required. Prerequisite: ECH 4002/302 or equivalent; consent of the department.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 4940	FIELD PRACTICUM IN INFANT/TODDLER STUDIES PROGRAM (3) A minimum of 100 clock hours of supervised experience with children from birth to age 5 and their families in a variety of early childhood settings. To be taken the term prior to the internship in Infant-Toddler Studies Program. Cannot be used for teacher licensure. Prerequisites: Consent of department, completion of other program requirements, assessments and infant-toddler specific coursework in the Infant Toddler Studies Degree Option; a 3.0 grade point average in professional education courses, and a 2.5 grade point average in all coursework satisfying program requirements.	3	3
ECH 4960	INTERNSHIP IN INFANT TODDLER STUDIES (6) A minimum of 200 clock hours of supervised experience with children from birth to age 5 and their families in a variety of early childhood settings. To be taken the final term of the Infant-Toddler Studies Program. Cannot be used for teacher licensure. This course includes a capstone project. Prerequisites: Completion of all other program requirements, assessments and coursework in the Infant Toddler Studies Degree Option; a 3.0 grade point average in professional education courses and a 2.5 grade point average in all coursework satisfying program requirements.	6	6
ECH 4980	SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3) Educational problems that have a high degree of contemporary significance in the field of early childhood education.	1	1
ECH 5000	FOUNDATIONS FOR INSTRUCTION IN EARLY CHILDHOOD EDUCATION (3) Instructional strategies and styles formulation of instructional objectives, lesson planning, unit development, and assessment techniques in early childhood. Writing emphasis course. Prerequisite: Pass English placement examination.	3	3

ECH 5001	HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION (3) Historical and philosophical foundations underlying the development and organization of early childhood education in the United States. Contemporary influences on early childhood education programs. Prerequisite: ELCF 1520/152.	3	3
ECH 5008	CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION /FIELD (3) Methods and techniques for providing creative experiences in the classroom and integrating literature, music and art activities in programs for young children. Fifteen hours of field experience per term.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ART 1100/101, MUS 1134/134; ECH 5020/4002/302 and admission to the College of Education.		
ECH 5009	SPEECH AND LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD (3) Understanding of language acquisition and development. Emphasis on methods used to facilitate language development. Prerequisite: ECH 5001/301G, ECH 5020/402 and ECH 5304/304G.	3	4
ECH 5020	THE YOUNG CHILD/FIELD (3) Principles and concepts of development and learning in children ages 0-8, including integration of physical, cognitive, and social-emotional development. Emphasis on theories of and current issues in child development and on an understanding and involvement in professional development activities. Fifteen hours of field observation are required. Credit not given for both ECH 5020/402 and ECH 302G. Prerequisite: Graduate status or consent of department.	3	3
ECH 5120	READING AND LANGUAGE ARTS FOR THE YOUNG CHILD /4/ FIELD (3) Theories, methods, and materials for facilitating and supporting reading and language arts, writing and spelling in primary classrooms. Fifteen hours of tutoring required. Prerequisite: Admission to the College of Education or consent of department.	3	4
ECH 5150	CHILD, FAMILY AND COMMUNITY RELATIONSHIP (3) Family patterns and their influences on the child. Parent-school relationship and parent education. Community influences and resources. Prerequisite: ECH 5001/301G, ECH 5020/402 and ECH 5304/304G.	3	3

ECH 5170	NUTRITION, HEALTH AND SAFETY OF THE YOUNG CHILD (3) Health and safety concerns of young children in an institutional setting with emphasis on providing nutrition, health, and safety education to young children. Cannot receive credit for both ECH 316 and ECH 5170/4170/317.	3	3
ECH 5180	METHODS OF INSTRUCTION AT THE PRE-PRIMARYLEVEL /FIELD (3) Methods and materials for teaching mathematics, science, and social studies at the preprimary level. Twenty clock hours of tutoring per term. Prerequisite: ECH 5020/4002/302 or consent of the department and admission to the College of Education.	4	4
ECH 5220	ADMINISTRATION AND SUPERVISION OF CHILD CARE SERVICES (3) For teachers and administrators of programs for young children. Models of programs for	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	young children, scheduling, staffing, record-keeping, standards, licensing practices, building and budget needs. Parent-teacher (home-school) relationship and cooperation. Prerequisite: Consent of the department.		
ECH 5240	CHILDHOOD EDUCATION (3) Developmental theories of early childhood and their implications for school practice in pre-kindergarten and in primary programs. Observations in a variety of settings. Prerequisite: Consent of the department.	3	3
ECH 5250	CONTEMPORARY INFLUENCES IN EARLY CHILDHOOD EDUCATION (3) The nature of early learning, current controversies and research. Montessori and Piagetian theories and practices. Prerequisite: Restricted to master's degree candidates, ECH 5020/402 or equivalent.	3	3
ECH 5270	COGNITIVE DEVELOPMENTAL THEORIES AND THEIR IMPLICATIONS (3) Consideration of Piaget's theory of cognitive development as well as other theories of the development of intelligence in the young child. Consideration of the implications of these theories for curricular materials and practices in school settings from pre-kindergarten through the early elementary years. Prerequisite: Restricted to master's degree candidates.	3	3

ECH 5280	<p>SEMINAR: A MULTIDISCIPLINARY APPROACH IN EARLY CHILDHOOD EDUCATION (3)</p> <p>Child development as seen by other fields and other professionals: nutritionists, psychologists, sociologists, geneticists, etc. Concepts such as behavior modification, operant conditioning, sex, role behavior, aggression, modeling and identification; diagnosing, prescribing and evaluating teaching and learning in early childhood.</p> <p>Prerequisite: Restricted to master's degree candidates.</p>	3	3
ECH 5304	<p>INFANT/TODDLER DEVELOPMENT AND PROGRAMMING (3)</p> <p>Development from conception through toddlerhood to age three. Emphasis on study of developmental domains in cultural context: perceptual, motor, cognitive (including brain), language, mental health, temperament, and social-emotional. Examination of systems which influence the continuum of healthy growth and development that impact programming. Integration of age-appropriate curricula and assessment.</p> <p>Prerequisite: PSYC 2040/204 or consent of Department.</p>	3	3
ECH 5305	<p>INFANT TODDLER CURRICULUM AND ENVIRONMENTS (3)</p> <p>Examination of curricular models, instructional materials that foster the development of infants and toddlers and strategies for managing infant and toddler learning environments.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): ECH 4000/300 or ECH 5000/300G and ECH 4304/304 or ECH 5304/304G		
ECH 5310	<p>LITERATURE FOR YOUNG CHILDREN (3)</p> <p>Designed to acquaint the teacher of young children with the wide variety of available literature and its many uses in the pre-kindergarten and primary years.</p> <p>Prerequisite: Consent of department.</p>	3	3
ECH 5319	<p>METHODS OF INSTRUCTION AT THE PRIMARY LEVEL FIELD/ (3)</p> <p>Methods and materials for teaching mathematics, science, and social studies in primary grades. Twenty clock hours of tutoring per term.</p> <p>Prerequisite: ECH 4002/302 or consent of the department and admission to the College of Education.</p>	4	5

ECH 5320	CURRICULUM FOR PRESCHOOL PRIMARY CHILDREN (3) Consideration of curriculum for early childhood education. Methods of curriculum planning as well as consideration of current research in planning for language, reading, social studies, science, mathematics, art, music, play and movement areas within the curriculum. Prerequisite: Restricted to masters degree candidates.	3	3
ECH 5340	MONTESSORI METHOD (3) Overview of Montessori philosophy, materials, methods, and curriculum. Prerequisite: Consent of the department.	3	3
ECH 5401	HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION (3) Historical and philosophical foundations underlying the development and organization of early childhood education in the United States. Contemporary influences of early childhood education programs. Prerequisite(s): Consent of department.	3	3
ECH 5402	CHILD DEVELOPMENT I - AGES 0-3 (3) Continuum of development from conception through toddlerhood, age 3. Emphasis on study of developmental domains, including perceptual, motor, cognitive, brain, language, social-emotional development, mental health, and temperament, in the context of culture and social systems which influence the continuum of healthy growth and development, and the theoretical foundations which support knowledge and research in child development. Observational data collection and 25 field hours required. Prerequisite(s): ENG 1280/128 and ECH 5401/5001; consent of department.	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 5403	HEALTH, SAFETY, NUTRITION, SAFETY FOR CHILDREN 0-8 (3) Examination of nutrition, health, and safety practices, including study of health related issues, use and implementation of Illinois Health and Physical Development Learning Standards, and development of safety, nutrition, health and physical development/fitness education in children ages 0-8. Emphasis on collaboration with families to support wellness within a social and cultural context. Prerequisite(s): ECH 5401/5001, ECH 5402/5304, ECH 5404/5000 and ECH 5405/5020 or consent of department.	3	3

ECH 5404	FOUNDATIONS OF INSTRUCTION FOR CHILDREN - AGES 0-8 (3) The importance of applying knowledge of development across all domains to the creation of early childhood environments and learning experiences that support the growth and development of all children. 15 field hours. Writing emphasis course. Prerequisite(s): ENG 1280/128 or consent of department.	3	4
ECH 5405	CHILD DEVELOPMENT II - AGES 3-8 (3) Continuum of development in children ages 3-8. Emphasis on study of developmental domains, including perceptual, motor, cognitive, brain, language, social-emotional development, mental health, and temperament, in the context of culture and social systems which influence the continuum of healthy growth and development, and the theoretical foundations which support knowledge and research in child development. Observational data collection and 15 field hours required. Writing emphasis course. Prerequisite(s): ENG1280/128, ECH 5401/5000 and ECH 5402/5304 or consent of department.	3	4
ECH 5406	CHILD, FAMILY AND COMMUNITY RELATIONSHIPS (2) Examination of family, culture, communities and social systems, the strengths, resources and vulnerabilities of these system and how they influences children's development and academic success, and the functioning of care and educational systems. Strategies for developing effective partnerships with families and with other school professionals and for advocating for children, families and the profession. Prerequisite(s): ECH 5401/5001, ECH 5402/5304 and ECH 5405/5020; consent of department. Co-requisite(s): ECSE 5407	2	2
ECH 5408	SPEECH AND LANGUAGE DEVELOPMENT FOR CHILDREN 0-8 (2) Participants develop an understanding of language acquisition and development in children ages 0-8. All aspects of communication are explored with an emphasis on appropriate and culturally responsive methods to facilitate language development. Connections to emergent literacy and support for children with communication challenges.	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	15 field hours. Prerequisite(s): ECH 5401/5001 and ECH 5402/5304; consent of department. Co-requisite(s): ECSE 5409		

ECH 5410	LITERATURE AND INFORMATIONAL TEXT FOR CHILDREN AGES 0-8 (3) Designed to acquaint the teacher of young children ages 0-8 with the wide variety of available literature and informational text which is developmentally and culturally appropriate, effective selection criteria, and uses of literature and informational text in developing literacy, content knowledge and critical thinking skills. Ten (10) field hours. Prerequisite(s): ENG 1280/128, Reading Qualifying Exams, ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5408/5009 and ECSE 5409/5309 or consent of department. Co-requisite(s): ECH 5412	3	4
ECH 5411	METHODS FOR DEVELOPING INFANT TODDLER CURRICULUM (3) Examination of curricular models and instructional materials that foster the development of infants and toddlers across all domains. Strategies will be explored for creating and managing infant and toddler learning environments which are responsive to the needs of all children. Emphasis on collaboration with families and other professionals. 25 field hours required. Prerequisite(s): ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5406/5150, ECH 5408/5009, ECH 5410/5310, ECH 5412/5008, ECSE 5407/5150 and ECSE 5409/5309 or consent of department.	3	4
ECH 5412	METHODS OF TEACHING FINE ARTS PREK - GRADE 2 (2) Application of the fine arts learning standards to design age and culturally appropriate fine arts experiences which facilitate children's exploration and creative expression in PreK to Grade 2. Emphasis on interdisciplinary planning and instruction using the elements, materials and media which comprise the fine and performing arts. 10 field hours required. Prerequisite(s): ECH 5401/5000, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ART 1100/101 and MUS 1134/134; consent of department. Co-requisite(s): ECH 5410	2	3
ECH 5413	METHODS OF TEACHING SOCIAL STUDIES PREK TO GRADE 2 (2) Thorough examination of the current learning standards for social studies. Experience in their use to develop and implement instructional methods and materials in teaching history, government, geography and economics in PreK to Grade 2. Course will emphasize discipline specific and age appropriate pedagogies and interdisciplinary planning and instruction. Ten (10) field hours required.	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Prerequisite(s): POL 1010/101, GEOG 1100/110, HIST 1310/131, ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5410/5310 and ECH 5412/5009 or consent of department.</p> <p>Co-requisite(s): ECH 5414, ECH 5415 and ECH 5416.</p>		
ECH 5414	<p>METHODS OF TEACHING SCIENCE PREK TO GRADE 2 (2)</p> <p>Thorough examination of the current learning standards for science and their use in developing and implementing instructional methods and materials in teaching physics, earth, space and biological sciences in PreK to Grade 2. Course will emphasize age appropriate, discipline specific pedagogy and interdisciplinary planning and instruction. Ten (10) field hours required.</p> <p>Prerequisite(s): PH S 1100/110, PH S 1140/114, BIOL 1510/151, ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5410/5310 and ECH 5412/5009 or consent of department.</p> <p>Co-requisite(s): ECH 5413, ECH 5415 and ECH 5416.</p>	2	3
ECH 5415	<p>METHODS OF TEACHING MATHEMATICS PREK GRADE 2 (3)</p> <p>Examination of the current mathematics learning standards and their use in development of age-appropriate, discipline specific and interdisciplinary pedagogy, planning for teaching the five strands of mathematical proficiency (perceptual understanding, procedural fluency, strategic competence, adaptive reasoning and productive dispositions) in PreK to Grade 2. Ten (10) field hours required.</p> <p>Prerequisite(s): MATH 1010/140, MATH 1020/141, ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5410/5310 and ECH 5412/5009.</p> <p>Co-requisite(s): ECH 5413, ECH 5414 and ECH 5416.</p>	3	4
ECH 5416	<p>METHODS OF READING AND LANGUAGE ARTS PREK - GRADE 2 (3)</p> <p>The development of communications skills will be explored as the foundation for literacy and language arts. Participants will use a variety of instructional strategies for the teaching of reading and writing, create, plan and implement learning experiences (e.g., assessments, integrated interdisciplinary unit) that are developmentally appropriate and culturally responsive. Writing emphasis course. Ten (10) field hours.</p> <p>Prerequisite(s): ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5406/5150, ECH 5408/5009, ECH 5410/5310, ECH 5411/5305, ECH 5412/5008, ECSE 5407/5150 and ECSE 5409/5309 or consent of department.</p> <p>Co-requisite(s): ECH 5413, ECH 5414 and ECH 5415.</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 5419	<p data-bbox="256 247 1101 275">SCREENING ASSESSMENT AND EVALUATION PREK - GRADE 2 (3)</p> <p data-bbox="256 321 1292 489">Exploration of formal assessments and utilization of normative assessment data. Formal, informal and authentic assessments will be administered in the collection and analysis of data for completion of a comprehensive case study. Informal, authentic assessments will be developed to determine the impact on learning of instruction implemented during practicum, taken concurrently with the course. Ten (10) field hours.</p> <p data-bbox="256 531 1268 667">Prerequisite(s): ECH 5401/5001, ECH 5402/5304, ECH 5404/5000, ECH 5405/5020, ECH 5406/5150, ECH 5408/5009, ECH 5410/5310, ECH 5411/5305, ECH 5412/5008, ECH 5413, ECH 5414, ECH 5415, ECH 5416/5120, ECSE 5407/5150 and ECSE 5409/5309 or consent of department.</p> <p data-bbox="256 709 553 737">Co-requisite(s): ECH 5445</p>	3	4
ECH 5440	<p data-bbox="256 770 654 798">DEVELOPMENT IN INFANCY (3)</p> <p data-bbox="256 844 1260 980">Consideration of development in infancy to include perceptual, motor, cognitive and language development. Fostering growth and development in infancy. Programmatic considerations for infant care in home and institutional settings. Introduction to ordinal scales for assessment in infancy.</p> <p data-bbox="256 1022 829 1050">Prerequisite: Restricted to master's degree candidates.</p>	3	3
ECH 5445	<p data-bbox="256 1075 764 1102">FIELD PRACTICUM PRE-K GRADE 2 (3)</p> <p data-bbox="256 1148 1247 1285">Supervised experience in prekindergarten and primary classrooms designed for candidates to implement teaching and learning strategies acquired in methods courses. Course includes development of classroom management strategies, examination of school policies. 100 field hours. To be taken the long semester prior to student teaching.</p> <p data-bbox="256 1327 1235 1463">Prerequisite(s): ECH 5401/5001, ECH 5402/5304, ECH 5403/5170, ECH 5404/5000, ECH 5405/5020, ECH 5406/5150, ECH 5408/5009, ECH 5410/5310, ECH 5411/5305, ECH 5412/5008, ECH 5413, ECH 5414, ECH 5415. ECH 5416/5120 and ECSE 5407/5150 or consent of department.</p> <p data-bbox="256 1505 1105 1533">Co-requisite(s): ECH 4419, ECSE 4417, ECSE 4418, BIL 4015 and BIL 4017.</p>	3	3

ECH 5450	STUDENT TEACHING AND SEMINAR IN PREK TO GRADE 2 (6) Field placement in a preschool setting (pre-k) and primary grade (k-2) classroom. University and field-based cooperating school supervision. Five (5) full days per week, including seminar, for 16 weeks. Full assumption of all classroom responsibilities for two (2) full weeks of each placement. No other course may be taken during the semester of student teaching. The course requires an Impact on Student Learning/Capstone Project. Field hours: 16 weeks, all day, five (5) days/week. Prerequisite(s): All required program courses.	6	6
ECH 5550	INTRODUCTION TO INFANT MENTAL HEALTH (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Introduction to the healthy social and emotional development of children from birth to 3 years. Research, principles of infant mental health practices, risk and protective factors, assessment, intervention and support of very young children in the context of their families will be addressed. Prerequisites: Graduate status; previous course in child development.		
ECH 5587	DEVELOPMENTAL ROLE OF PLAY IN EARLY CHILDHOOD (3) In-depth consideration of the developmental role of play in early childhood education. Methods and materials for fostering creative and developmental play activities. Prerequisite: Consent of the department.	3	3
ECH 5601	THEORETICAL INFLUENCES ON DEVELOPMENT: PIAGETIAN AND NEO-PIAGETIAN PERSPECTIVES (3) Study and critical analysis of Piaget's and Neo-Piagetian theory and Information Processing perspectives as foundational theories of development and learning. Practical applications of the research and their implications in working with young children and their families. Prerequisites: Acceptance into the program or consent of the department.	3	3
ECH 5602	THEORETICAL INFLUENCES ON DEVELOPMENT: VYGOTSKY AND NEO-VYGOTSKIAN PERSPECTIVES (3) Consideration of Vygotskian and Neo-Vygotskian theory as foundational to children's development. Analysis of Vygotsky's theory and multiple applications of his work in recent research and practice. Implications of the theory for implementation of evidence-based practice in working with diverse populations of young children and their families. Prerequisites: Acceptance into the program or consent of the department.	3	3

ECH 5603	<p>THEORETICAL INFLUENCES ON DEVELOPMENT: CONTEXTUALISTS' PERSPECTIVES (3)</p> <p>Study and critical analysis of Bronfenbrenner's Bioecological Systems Theory and other contextualist perspectives on the development of young children. Practical applications of the contextualist perspectives in work with young children, their families and communities.</p> <p>Prerequisites: Acceptance into the program or consent of the department.</p>	3	3
ECH 5604	<p>MULTICULTURAL AND CROSS CULTURAL ASPECTS OF DEVELOPMENT (3)</p> <p>Study of and reflection on cultural and societal influences on the development of young children and families and implications for responsively working with children, families and communities.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603, or may be taken concurrently.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 5605	<p>MULTICULTURAL AND CROSS CULTURAL READINGS ON CURRICULUM AND ASSESSMENT IN ECH (3)</p> <p>An examination of multicultural/multilingual curricula and supporting research, with a special focus on culturally/linguistically and contextually responsive curriculum and assessment strategies. Integration of culturally/contextually responsive pedagogical approaches for the instruction of young children.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603; and ECH 5604.</p>	3	3
ECH 5606	<p>DUAL AND MULTILINGUAL LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD (3)</p> <p>An examination of multicultural/multilingual curricula with a special focus on culturally/linguistically responsive instruction and assessment strategies, beginning with infancy. Design and integration of culturally and linguistically responsive pedagogical approaches for young children who are dual or multilingual learners.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602 or 5603; and ECH 5604.</p>	3	3
ECH 5607	<p>TECHNICAL AND FUNCTIONAL ASPECTS OF EARLY LITERACY DEVELOPMENT (3)</p> <p>A review of the research around the technical (phonological and phonemic) and functional (reading and writing in the context of play and daily routines) aspects of literacy development infancy through prekindergarten including classroom application.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603; and ECH 5604 and 5605.</p>	3	3

ECH 5608	FAMILY LITERACY ACROSS DIVERSE COMMUNITIES (3) Review of research investigating family influence on children's language and literacy development, review of model family literacy programs, their history and social and political implications, and examinations of effective strategies for implementing family involvement in children's literacy development. Prerequisites: Acceptance into the program or consent of the development; ECH 5601 or 5602, or 5603; ECH 5604 and 5605	3	3
ECH 5609	MATHEMATICAL LEARNING FOR CHILDREN 0-5: RESEARCH AND PEDAGOGY (3) An in-depth review of the research literature around mathematical learning beginning in infancy and the impact of early mathematical learning on future learning and academic success, including pedagogical applications. Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603; and ECH 5604 and 5605.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ECH 5740	FIELD PRACTICUM IN EARLY CHILDHOOD EDUCATION /FIELD (3) Supervised hands-on experience in an early childhood classroom designed for students to apply teaching and learning strategies acquired in methods courses. Classroom management, school policies and rules, teaching strategies, and technology. One hundred clock hours field experience. To be taken the long semester prior to student teaching. Prerequisites: Admission to the College of Education; Completion of a minimum of two (2) of the following courses: ECH 5008/4008/308/308G, ECH 5120/4120/312, ECH 5180/4180/318/318G, 5319/4319/319/319G, and concurrent enrollment in the remaining; consent of the department.	3	2
ECH 5750	STUDENT TEACHING IN EARLY CHILDHOOD / FIELD (6) Off-campus placement in a preschool setting (pre-K) and primary grade (K-3) classroom. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other course may be taken during the semester of student teaching. The course requires an Impact on Student Learning Capstone Project. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the concentration, in professional education, and in all course work required in the approved program; and a passing score on the subject matter / content area certification test within the last five years.	6	6

ECH 5850	<p>SCREENING, ASSESSMENT, AND EVALUATION OF YOUNG CHILDREN (3)</p> <p>General introductory course in screening, assessment, and evaluation of young children in early childhood education. Course presents all major tests for screening young children. Tests to assess the development of intelligence, fine and gross motor development, socialemotional development, physical development, and language are presented. Extensive testing outside of class is required.</p> <p>Prerequisite: ECH 4002/302 (or ECH 5020/402) or equivalent and consent of the department.</p>	3	3
ECH 5970	<p>ACTION RESEARCH IN EARLY CHILDHOOD (2)</p> <p>Course focuses on major concepts, principles and on methods of research used to investigate teaching and learning in early childhood. Fulfills the research requirement for the Master of Science in early childhood education.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603; and ECH 5604 and 5605.</p>	2	2
ECH 5971	<p>EARLY CHILDHOOD ACTION RESEARCH PROJECT (1-3)</p> <p>Candidates design and implement an action research project that will demonstrate their impact on children's learning. An emphasis will be placed on the relationship of research</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>to individual professional preparation and practice. One credit hour, repeated as needed up to 3 credit hours. Following enrollment in the first credit hour, candidates must complete the project within 2 years.</p> <p>Prerequisites: Acceptance into the program or consent of the department; ECH 5601 or 5602, or 5603; and ECH 5604, 5605, and 5970.</p>		
ECH 5980	<p>SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3)</p> <p>Educational problems that have a high degree of comtemporany significance in the field of early childhood education. May be repeated for a up to a maximum of three (3) credit hours.</p>	1	1

Economics (ECON)

Course	Course Description	Credit Hrs.	Contact Hrs.
ECON 1000	ISSUES IN AMERICAN ECONOMY (3) Practical training in reasoning about economic issues. Analysis, construction, and criticism of arguments pertaining to such issues. (A critical thinking course.)	3	3
ECON 1010	PRINCIPLES OF MACROECONOMICS (3) Introduction to national income theories, economic fluctuations and growth, money and banking, and international economics. N.B., Policies on the acceptance of AP credit vary among academic programs, so AP credit toward the GECC or major requirements is not guaranteed. (General Education Critical Thinking Course.) IAI S3 901	3	3
ECON 1020	PRINCIPLES OF ECONOMICS II (MICROECONOMICS) (3) The price system, demand and supply and elasticity. Theory of consumer behavior. Cost and output decisions. Market structure and pricing. IAI: S3 902	3	3
ECON 1030	ECONOMIC GLOBALIZATION (3) Influence of economic globalization on cultural diversity. Exploration of cultural diversity as a cause and an effect of economic growth in open market countries. Impacts of the world monetary system, the world trade system, trading policies and multinational corporations on the global population.	3	3
ECON 1040	ECONOMICS OF PERSONAL FINANCE (3) Fundamentals of personal finance: developing a financial plan, understanding time value concepts, banking and personal financing, assessing and securing credit, credit cards and related issues, asset allocation, investing in stocks, bonds and mutual funds.	3	3
ECON 1050	THE STOCK MARKET (3) A study of financial markets for stocks and the mechanics of trading. How stock markets provide capital to foster investments and economic growth.	3	3
ECON 1099	FRESHMAN SEMINAR IN ECONOMICS (1) Introduction to the expectations of the university. The nature of an economics approach to learning. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life. Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.	1	1

ECON 2000	ENVIRONMENTAL ECONOMICS (3) A survey subject of externalities, market failure, benefits and costs of environmental protection, the political economy of environmental regulations and resolving global environmental concerns.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
ECON 2010	MONEY AND BANKING (3) Money and financial institutions. Risk and term structure of interest rates. Foreign exchange market. Banking industry. Financial derivatives. Federal Reserve system and monetary policy. Prerequisite: ECON 1010/101.	3	3
ECON 2030	COMPARATIVE ECONOMIC SYSTEMS (3) Emergence and development of economic ideas and systems. Similarities and differences in the economic systems of the United States, Great Britain, Russian Republic, Germany, and Communist China. Economic programs of newly emerging nations. Prerequisite: ECON 1010/101 and 1020/102.	3	3
ECON 2035	POLITICAL ECONOMICS (3) A comparison of classical, neoclassical, and Marxian economics, with particular emphasis on the Marxian paradigm. Topics include the labor theory of value, crisis theory, and historical materialism. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3
ECON 2040	PUBLIC FINANCE (3) Federal expenditure, taxation, and borrowing operations; effects of federal financing on national income, employment, distribution, prices, and economic growth; tax shifting and tax incidence; formulation and execution of fiscal policy; state and local government financing. Prerequisite: ECON 1010/101 and 1020/102.	3	3

ECON 2050	HISTORY OF ECONOMIC THOUGHT (3) Influence of economic thought on politico-socioeconomic development. Ancient and medieval economic ideas. Mercantilists and physiocrats. English classical, Marxian, German historical, Austrian, neoclassical, Keynesian, and neo-Keynesian schools. American contributions. Current development. Writing emphasis course. Prerequisite: ECON 1010/101 and 1020/102.	3	3
ECON 2060	PRICE AND ALLOCATION THEORY (3) Theory of consumer behavior. Theory of production functions, short run and long run. Perfect and imperfect competition. Pricing of products and determination of output. Pricing of factors of production. Allocation of resources. Distribution of income. Survey of welfare economics. Prerequisite: ECON 1010/101 and 1020/102.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ECON 2070	NATIONAL INCOME AND EMPLOYMENT (3) Concept of national income. Measurement of national income, gross national product, and employment. Analysis of income level determination. Cyclical fluctuations. Monetary, fiscal and other economic policies for stabilization. Economic growth and policies. Writing emphasis course. Prerequisite: ECON 1010/101 and 1020/102.	3	3
ECON 2100	ECONOMICS OF REGULATION (3) Economic analysis of market failures and government responses. Topics include antitrust and merger; optimal policies to deal with externalities and research and development; bureaucratic regulatory behavior; and strategies for regulatory reform. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3
ECON 2110	INTERNATIONAL TRADE (3) A microeconomic analysis of the problems that arise from and in connection with the exchange of physical commodities between nations, with emphasis on classical and modern trade theories, the effects of trade restrictions, factor price equalization theory, economic integration and international investment, and problems of third world economics. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3

ECON 2120	INTERNATIONAL MONETARY ECONOMICS (3) An analysis of the macroeconomic aspects of international trade with emphasis on the balance of payments, exchange rates, international trade multipliers, transfer and capital movements, international currency markets, and the roles of the World Bank and the International Monetary Fund. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3
ECON 2140	CONSUMER ECONOMICS (3) Structure of the American economy. Theory of consumer demand. Expenditures for different types of goods and services. Use of consumer credit. Insurance and investment. Fiscal and monetary policy. Prerequisite: Sophomore standing.	3	3
ECON 2150	LABOR ECONOMICS (3) An analysis of the factors affecting the demand and supply of labor in relation to the wage theory; the demand for labor in competitive markets; human capital theory; labor legislation, and the role of labor unions. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ECON 2160	URBAN LABOR MARKETS (3) An empirical study of the use of labor, showing how the employment opportunities of various groups of workers are affected by social policies. Topics include the two-tier labor market; returns on investments in human capital; impact of housing market segregation on minority employment rates. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3
ECON 2170	INDUSTRIAL ORGANIZATION (3) An analysis of the structure of markets and behavior of firms within the market environment; measures of industrial concentration; economies of scale; mergers and the merger movement; price discrimination and tie-in sales; monopolies and cartel arrangements; resale price maintenance; innovation and technological change. Prerequisite: ECON 1020/102 or consent of the department.	3	3

ECON 2200	HEALTH ECONOMICS (3) An application of economic theories to the health care industry, and an empirical study of health care. Topics include market analysis of medical insurance, medical care personnel, hospitals, and other health care providers. Prerequisite: ECON 1020/102 or consent of the department.	3	3
ECON 3000	MANAGERIAL ECONOMICS (3) An application of economic theory to decision-making processes in business organizations. Topics include demand and cost analysis, including demand forecasts; pricing policies, capital budgeting; production analysis; uses of operations research methods. Prerequisite: ECON 2060/206 or consent of the department.	3	3
ECON 3010	ECONOMIC DEVELOPMENT (3) Economic planning and programs in underdeveloped countries. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3
ECON 3020	BUSINESS CONDITIONS ANALYSIS (3) Applications of microeconomic and macroeconomic theory to economic fluctuations; topics i forecasting methods and techniques, including models and their applications. Prerequisites: ECON 2070/207.	3	3
ECON 3030	URBAN ECONOMICS (3) Urban economic theory; location, central place, land use, and urban public finance. (This	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisites: ECON 1010/101 and 1020/102 or consent of the department.		
ECON 3040	URBAN ECONOMIC PROBLEMS AND POLICIES (3) Urban growth, causal factors and recent trends. Land use theory. Major urban economic issues; housing, poverty, transportation and pollution. Federal, state and local government finance. Prerequisite: ECON 1010/101 and 1020/102 or consent of the department.	3	3

ECON 3130	THE STOCK MARKET: PORTFOLIO MANAGEMENT (3) An analysis of secondary markets for financial securities, including an exploration of how the markets function to provide capital to stimulate investments and economic growth. Role of investors in the stock market. Prerequisites: ECON 1010/101 and ECON 1020/102 or consent of the department.	3	3
ECON 4000	QUANTITATIVE ANALYSIS FOR BUSINESS AND ECONOMICS (3) Central tendencies. Dispersion. Probability. Concepts and measurement of precision for pertinent statistics. Correlation. Time series, models.	3	3
ECON 4010	ECONOMETRICS (3) Specification of economics models; measurement of variables; estimation of economic relationships and testing of economic hypotheses. Prerequisite: ECON 1010/101, 1020/102 and 4000/230.	3	3
ECON 4020	MATHEMATICAL ECONOMICS (3) Application of mathematics theories of consumer and producer behavior, to the determination of prices in markets, and to growth and stability features of macroeconomic models. Prerequisite: ECON 1010/101 and 1020/102; MATH 1200/162.	3	3
ECON 4030	ADVANCED STATISTICS FORECASTING (3) Statistics used in forecasting by business and economics. Simple and multiple regression analysis, including computation of the regression line, standard error of the regression line, standard error of the estimate, prediction intervals, null hypothesis, coefficients of determination and correlation. Time series via least squares, ratio-to-moving average and residual methods. Prerequisites: ECON 4010/231	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ECON 4040	ADMINISTRATIVE INTERNSHIP FIELD / 30 to 150 CLOCK HOURS (3-9) Special assignments or a research project in a government office or private organization. May be repeated for credit up to a maximum of nine hours. Prerequisite: ECON 1010/101, 1020/102, 2060/206, 2070/207, 4000/230 and consent of the department.	3	3

ECON 4050	INDEPENDENT STUDY IN ECONOMICS (3) Staff directed study in special topics. May be repeated for a maximum of nine credit hours under different topics. Prerequisites: Consent of the department.	3	3
ECON 4060	SENIOR SEMINAR (3) Formulate and complete a research project using appropriate methodology. Seminar will include critiquing. Prerequisite: Senior standing; for economics majors only.	3	3
ECON 4070	SPECIAL TOPICS IN ECONOMICS (1-3) Study of special topics in economics. May be repeated for a maximum of nine credit hours under different topics. Prerequisite: Successful completion of English, Math, and Reading qualifying exams and consent of department.	1	1
ECON 4990	SENIOR HONORS THESIS (3) Directed research and writing. May be repeated for a maximum of six (6) credit hours. Prerequisites: Senior standing, admittance to the Honors in the Major program, and consent of the department.	3	3
ECON 5001	FUNDAMENTALS OF ECONOMICS (3) This course introduces students to the terminology and analytic principles used in microeconomic theory, which is broadly defined as the study of markets, and the application of these conceptual tools to several policy issues. Students will analyze the decisions of buyers and sellers and their interaction in market transactions, explores how different market structures can shape economic results, and how markets can sometimes help society achieve certain desirable outcomes. Additionally, this course provides an introduction into the workings and interrelationships of the aggregate economic system, with primary focus on production, distribution, employment, price levels, and the forces influencing them. Other considerations are the roles of government, the monetary sector, and related areas.	3	3
ECON 5010	ECONOMIC DEVELOPMENT (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Economic planning and programs in underdeveloped countries. Prerequisite: ECON 1010/101, or GEOG 2230/204, or consent of the department.		

ECON 5030	URBAN ECONOMICS (3) Urban economic theory: location, central place, land use, and urban public finance. Prerequisite: ECON 1020/102, or GEOG 2230/204, or consent of the department.	3	3
ECON 5040	URBAN ECONOMIC PROBLEMS AND POLICIES (3) Urban growth, causal factors and recent trends. Land use theory. Major urban economic issues; housing, poverty, transportation and pollution. Federal, state and local government finance. Prerequisite: ECON 1020/102 or GEOG 2230/204 or consent of the department.	3	3
ECON 5110	SEMINAR IN ECONOMIC DEVELOPMENT (3) Analysis of selected topics in economic geography, including industrial, transportation, location processes, and community economic development. May be repeated for a maximum of nine credit hours including GEOG 5320/448 under different topics. (Same as GEOG 5320/448.) Prerequisite: ECON 1010/101, or GEOG 2230/204, or consent of the department.	3	3
ECON 5300	SEMINAR IN ECONOMICS (3) Selected topics in economics including international trade, urban economics, public finance and environmental economics. (May be repeated for a maximum of nine credit hours.) Prerequisite: Consent of the department.	3	3

Early Chldhd & Spec Ed (ECSE)

Course	Course Description	Credit Hrs.	Contact Hrs.
ECSE 4150	FAMILY, SCHOOLS, AND COMMUNITIES IN EARLY CHILDHOOD SPECIAL EDUCATION (3) Provides the legal and philosophical basis for family participation; strategies for effectively engaging families of young children with special needs, including socially, culturally, and linguistically diverse families. In assessment, development and implementation of the IFSP or IEP, strategies for effective consultation and collaboration with other professionals and agencies within the community. Prerequisites: Admission to the College of Education or Type 04 Certificate	3	3

ECSE 4309	<p>ATYPICAL AND TYPICAL LANGUAGE DEVELOPMENT IN YOUNG CHILDREN (3)</p> <p>This course addresses typical and atypical language development in young children, specific language disabilities, the relationship between communication delays and other areas of early learning and development;and alternative communication systems for young children and disabilities. Assessment models, intervention approaches, compensatory strategies and special education specialist and the speech-language professional's role in implementing and managing language intervention will be considered.</p> <p>Prerequisites: Admission to the College of Education or Type 04 Certificate</p>	3	3
ECSE 4319	<p>EARLY CHILDHOOD SPECIAL EDUCATION METHODS (3)</p> <p>This course provides developmentally and individually appropriate methods for fostering the social, emotional, cognitive, communication, adaptive and motor development and learning of young children with special needs in various settings such as the home, the school and the community.</p> <p>Prerequisites: Admission to the College of Education or Type 04 Certificate</p>	3	3
ECSE 4407	<p>CHILD, FAMILY AND COMMUNITY RELATIONSHIPS IN EARLY CHILDHOOD SPECIAL EDUCATION (2)</p> <p>Provides the legal and philosophical basis for family participation; strategies for effectively engaging families of young children with special needs, including socially, culturally, and linguistically diverse families. In assessment, development and implementation of the IFSP or IEP, strategies for effective consultation and collaboration with other professionals and agencies within the community. Prerequisite: Department consent.</p> <p>Prerequisite(s): Consent of department. Co-requisite(s): ECH 4406</p>	2	3
ECSE 4409	<p>SPEECH AND LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD SPECIAL EDUCATION (2)</p> <p>Course addresses typical and atypical language development in young children, specific language disabilities, the relationship between communication delays and other areas of</p>	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>early learning and development, and alternative communication systems for young children and disabilities. Assessment models, intervention approaches, compensatory strategies and special education specialist and the speech-language professional's role in implementing and managing language intervention will be considered. 25 field hours.</p> <p>Prerequisite(s): ECH 4401 and ECH 4402 or consent of department.</p> <p>Co-requisite(s): ECH 4408</p>		

ECSE 4417	METHODS OF INSTRUCTION IN EARLY CHILDHOOD SPECIAL EDUCATION (2) Course provides developmentally and individually appropriate methods for fostering the social, emotional, cognitive, communication, adaptive, and motor development and learning of young children with special needs in various settings such as the home, the school and the community. 25 field hours. Prerequisite(s): Consent of department. Co-requisite(s): ECSE 4418	2	3
ECSE 4418	SCREENING AND ASSESSMENT IN EARLY CHILDHOOD SPECIAL EDUCATION (2) Course provides guidance in procedures for measurement of social, emotional, cognitive, communication and motor development of young children; the appropriate administration and utilization of formal/informal, and formative/summative assessments used in classroom, family and community settings with consideration of accommodations for atypically developing young children. Assessment data collected is used to both develop developmental/instructional objectives and modify instruction. Instruments for evaluation of classroom and other learning environments will be addressed. Ten (10) field hours required. Prerequisite(s): Consent of department. Co-requisite(s): ECSE 4417	2	3
ECSE 4850	EARLY CHILDHOOD SCREENING AND ASSESSMENT (3) The course provides guidance in procedures for measurement of social, emotional, cognitive, communication and motor development of young children; the appropriate administration and utilization of both the formal and informal, and formative and summative assessments used in classroom, family and community settings, and instruments for evaluation of classroom and other learning environments will be addressed. Prerequisite: Admission to the College of Education or Type 04 Certificate	3	3
ECSE 5150	FAMILY, SCHOOLS, AND COMMUNITIES IN EARLY CHILDHOOD SPECIAL EDUCATION (3) Provides the legal and philosophical basis for family participation; strategies for effectively engaging families of young children with special needs, including socially, culturally, and linguistically diverse families. In assessment, development and implementation of the IFSP	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	or IEP, strategies for effective consultation and collaboration with other professionals and agencies within the community. Prerequisites: Admission to the College of Education or Type 04 Certificate		

ECSE 5309	<p>ATYPICAL AND TYPICAL LANGUAGE DEVELOPMENT IN YOUNG CHILDREN (3)</p> <p>This course addresses typical and atypical language development in young children, specific language disabilities, the relationship between communication delays and other areas of early learning and development;and alternative communication systems for young children and disabilities. Assessment models, intervention approaches, compensatory strategies and special education specialist and the speech-language professional's role in implementing and managing language intervention will be considered.</p> <p>Prerequisites: Admission to the College of Education or Type 04 Certificate</p>	3	3
ECSE 5319	<p>EARLY CHILDHOOD SPECIAL EDUCATION METHODS (3)</p> <p>This course provides developmentally and individually appropriate methods for fostering the social, emotional, cognitive, communication, adaptive and motor development and learning of young children with special needs in various settings such as the home, the school and the community.</p> <p>Prerequisites: Admission to the College of Education or Type 04 Certificate</p>	3	3
ECSE 5407	<p>CHILD, FAMILY AND COMMUNITY RELATIONSHIPS IN EARLY CHILDHOOD SPECIAL EDUCATION (2)</p> <p>Provides the legal and philosophical basis for family participation; strategies for effectively engaging families of young children with special needs, including socially, culturally, and linguistically diverse families. In assessment, development and implementation of the IFSP or IEP, strategies for effective consultation and collaoration with other professionals and agencies within the community.</p> <p>Prerequisite(s): Consent of department.</p> <p>Co-requisite(s): ECH 5406</p>	2	3
ECSE 5409	<p>SPEECH AND LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD SPECIAL EDUCATION (3)</p> <p>Course addresses typical and atypical language development in young children, specific language disabilities, the relationship between communication delays and other areas of early learning and development, and alternative communication systems for young children with disabilities. Assessment models, intervention approaches, compensatory strategies and special education specialist and the speech-language professional's role in implementing and managing language intervention will be considered. 25 field hours.</p> <p>Prerequisite(s): ECH 5401/5001 and ECH 5402/5304 or consent of department.</p>	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Co-requisite(s): ECH 5408		
ECSE 5417	METHODS OF INSTRUCTION IN EARLY CHILDHOOD SPECIAL EDUCATION (2) Course provides developmentally and individually appropriate methods for fostering the social, emotional, cognitive, communication, adaptive, and motor development and learning of young children with special needs in various settings such as the home, the school and the community. Prerequisite(s): Consent of department. Co-requisite(s): ECSE 5418	2	3
ECSE 5418	SCREENING AND ASSESSMENT IN EARLY CHILDHOOD SPECIAL EDUCATION (2) Course provides guidance in procedures for measurement of social, emotional, cognitive, communication and motor development of young children; the appropriate administration and utilization of formal/informal, and formative/summative assessments used in classroom, family and community settings with consideration of accommodations for atypically developing young children. Assessment data collected is used to both develop developmental/instructional objectives and modify instruction. Instruments for evaluation of classroom and other learning environments will be addressed. Ten (10) field hours required. Prerequisite(s): Consent of department. Co-requisite(s): ECSE 4417	2	3
ECSE 5850	EARLY CHILDHOOD SCREENING AND ASSESSMENT (3) The course provides guidance in procedures for measurement of social, emotional, cognitive, communication and motor development of young children; the appropriate administration and utilization of both formal and informal, and formative and summative assessments used in classroom, family and community settings, and instruments for evaluation of classroom and other learning environments will be addressed. Prerequisite: Admission to the College of Education or Type 04 Certificate	3	3

Education (ED)

Course	Course Description	Credit Hrs.	Contact Hrs.
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ED 0910	BASIC LANGUAGE USAGE FOR TEACHERS (1-3) Review of basic oral and written skills for language arts and writing portions of the state examination in basic skills for teacher licensure. One semester hour covers 1-2 objectives; two semester hours covers 3-4 objectives; three semester hours covers 5-7 objectives. Credit does not count toward graduation. Course may be repeated for no more than 6 credit hours.	1	1
ED 0930	BASIC MATHEMATICS FOR TEACHERS (1-3) Review of basic mathematics skills for mathematics portion of the state examination in basic skills for teacher licensure. One semester hour covers 1-2 objectives; two semester hours covers 3-4 objectives; three semester hours covers 5-7 objectives. Credit does not count toward graduation. Course may be repeated for no more than 6 credit hours.	1	1
ED 0940	BASIC READING FOR TEACHERS (1-3) Review of basic reading skills for reading portion of the state examination in basic skills for teacher licensure. One semester hour covers 1-2 objectives; two semester hours covers 3-4 objectives; three semester hours covers 5-7 objectives. Credit does not count toward graduation. Course may be repeated for no more than 6 credit hours.	1	1
ED 1500	COLLEGE OF EDUCATION SEMINAR (1) Introduction to the expectations of the university and the College of Education. Emphasis on effective study skills and test-taking strategies, identification and exploration of campus resources, professional organizations, and education as a profession. Introduction to basic literacy skills in reading comprehension, language arts, mathematics, writing, and technology.	1	1
ED 1520	INTRODUCTION TO TEACHING /FIELD (2) Introduction to teacher roles in the metropolitan area, including special, middle school, and multicultural education. Supply and demand and other factors influencing teaching. Teaching competencies. Evaluation of interest and abilities and planning for a professional career. Ten clock hours of observation in schools and communities.	2	2
ED 2000	HISTORY AND PHILOSOPHY OF AMERICAN PUBLIC EDUCATION /FIELD (3) Historical and philosophical influences in the organization of American public education. Contemporary development including special, middle school, and multicultural education. Ten clock hours of field experience. IAI: EED 901, SED 901, SPE 911 Prerequisite: BIL 1450/145 or ELCF 1520/152 (or ED 1520) or PE 2010/201.	3	3
ED 4100	ASSESSMENT AND EVALUATION IN THE CLASSROOM (3) Assessment techniques for the classroom teacher including formative and summative assessments, connecting assessments to standards, rubric building, and theories associated	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	with alternative assessment. Prerequisites: Admission to the College of Education		
ED 4311	CLASSROOM MANAGEMENT FOR STUDENT TEACHERS (1) Basic information related to the methods of effective classroom management including: structuring a positive environment and effective organization for instruction. Additionally, student teachers will be encouraged to use these constructs to reflect on their own practices as they are actually in schools. Prerequisite: Restricted to student teachers.	1	1
ED 4312	TEACHING WITH TECHNOLOGY (3) Theory and research on technology in education with special emphasis on ways technology can enhance a curriculum, improve instructional practice, and assist student learning. Teaching safe, legal, and ethical use of digital information and technology. Technology literacy skills, productivity tools (word processing, spreadsheets, and databases), multimedia software (voice, images, prodcasts, presentations, and movies), communication tools (emails, blogs, discussion boards, wiki, and social media), evaluation of software and webenhanced learning environments, and distance education as well as emergence of new technologies. Prerequisites: COE Technology Readiness Assessment or permission of department.	3	3
ED 4440	PHILOSOPHY, CURRICULUM, AND INSTRUCTIONAL METHODS FOR THE MIDDLE SCHOOL (3) Examination of the origin and development of the middle school concept, responsibilities of the middle school classroom teacher, and developmentally appropriate instructional practices for middle school teaching, including content area reading. Course satisfies three of six-hour component required for middle school endorsements. Credit not given for both ED 440 and ELCF 4440/344/ED 4440. Prerequisites: Admission to the College of Education or Initial or Standard Teacher Certificate.	3	3
ED 4500	PRINCIPLES AND PRACTICES IN SECONDARY EDUCATION LECTURE /FIELD (2) Principles and methods of secondary and middle school education, including unit plans, lesson plans, and behavioral objectives. Multicultural nature of society and its impact on teaching. Exceptional children in regular classrooms. Twenty-five clock hours of classroom aiding and tutoring. Credit will not be given for both C&I 252 and ELCF 4500/353/ED 4500. Prerequisite: Admission to the College of Education; ELCF 2000/200 (or ED 2000); PSYC 2040/204. Concurrent enrollment in READ 4100/306.	2	2

ED 4610	EDUCATIONAL ISSUES IN THE BLACK COMMUNITY (3) Control of schools, relevance of curriculum, teacher qualifications, and Black self-concept,	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	achievement, and intelligence.		
ED 4820	EDUCATION FUNDAMENTALS FOR SCHOOL COUNSELORS (3) The structure, organization and operation of the P-12 educational system; the diversity of Illinois students and the laws and programs designed to meet their needs; and effective management of the classroom and learning process. Designed for uncertified students enrolling in the school counseling program. Fifteen hours of teacher-aiding. Prerequisite: Conditional admission to Master's degree program in School Counseling or consent of Psychology department.	3	3
ED 4988	PROFESSIONAL PORTFOLIO & EFFECTIVE PRACTICES (3-6) Exploration of effective teaching, learning and research practices in an educational setting. Application and documentation of effective practices including impact on student learning/learning environment, classroom management, and dispositions through development of a digital professional portfolio. Course may be taken with student teaching/internship. Course may be repeated and may not be counted toward degree credits. Prerequisite: Admission to the College of Education	3	3
ED 5000	PHILOSOPHY OF EDUCATION (3) In-depth examination of major philosophies of education and their relation to teaching practice, methods, curriculum, and educational administration. Philosophies examined will include idealism, perennialism, pragmatism, existentialism, Marxism, romanticism, phenomenology, hermeneutics, and post-structuralism. Emphasis on practical significance of educational theories. Prerequisites: Illinois Teaching Certificate or consent of department.	3	3
ED 5100	ASSESSMENT AND EVALUATION IN THE CLASSROOM (3) Assessment techniques for the classroom teacher including formative and summative assessments, connecting assessments to standards, rubric building, and theories associated with alternative assessment. Prerequisites: Admission to the College of Education	3	3

ED 5304	REFLECTIVE ASSESSMENT OF TEACHING PRACTICE (4) Preparation of self-assessment of teaching practice based on the Illinois Professional Teaching Standards. Includes self-assessment of classroom performance, teaching strategies, delivery of content, strategies for motivating students, communication skills, and professional conduct; observation, review and analysis of teaching practice. Approved by the Illinois State Board of Education for moving from an Initial to a Standard Teacher Certificate. Prerequisite: Illinois Initial Teacher Certificate.	4	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
ED 5311	CLASSROOM MANAGEMENT FOR STUDENT TEACHERS (1) Basic information related to the methods of effective classroom management including: structuring a positive environment and effective organization for instruction. Additionally, student teachers will be encouraged to use these constructs to reflect on their own practices as they are actually in schools. Prerequisite: Restricted to student teachers.	1	1
ED 5312	TEACHING WITH TECHNOLOGY (3) Theory and research on technology in education with special emphasis on ways technology can enhance a curriculum, improve instructional practice, and assist student learning. Teaching safe, legal, and ethical use of digital information and technology. Technology literacy skills, productivity tools (word processing, spreadsheets, and databases), multimedia software (voice, images, podcasts, presentations, and movies), communication tools (emails, blogs, discussion boards, wiki, and social media), evaluation of software and webenhanced learning environments, and distance education as well as emergence of new technologies. Prerequisites: COE Technology Readiness Assessment or permission of department.	3	3
ED 5374	CLINICAL EXPERIENCE FOR THE CERTIFIED TEACHER (3) Clinical experience for the certified teacher in pre-K, elementary, and/or high school classrooms appropriate for the grade range and/or subject area of the subsequent certificate being earned. Prerequisite: Admission to focused program for certified teachers.	3	0

ED 5400	THE URBAN TEACHER /FIELD/ 5 CLOCK HOURS (3) Examination of the current issues related to being a successful urban teacher. Topics include: teaching as a profession; diversity; school reform; ethics, values, and attitudes; multiple intelligence; creating an environment for learning; classroom management and discipline; curriculum development and planning; assessment and evaluation; teaching models; school family and community relationships; resources; professionalism; and stress management. Five hours of observation per term. Prerequisite: Passing score on the Illinois Certification Test of Basic Skills; candidate in Teachers for Chicago Program.	3	3
ED 5401	TECHNOLOGY, SCHOOLS, AND LEARNING (3) Graduate introduction to technology in education. Introduction and foundation to research, planning, and implementation issues related to technology in education. Coursework includes extensive reading list, classroom applications, and hands-on laboratory experiences. If credit is received for ED 5401/401, credit may not be received for any of the following: ED 5420/420, 5421/421 or 5422/422.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ED 5402	TECHNOLOGY PLANNING AND EDUCATIONAL DELIVERY (3) Graduate course designed to take participants through a step by step process to develop a technology plan directly related to Illinois state guidelines and local needs. If credit is received for ED 5402/402, credit may not be received for ED 5423/423 or ED 5424/424.	3	3
ED 5403	TELECOMMUNICATION TOOLS (3) Introduction to basic telecommunication tools of the Internet, e-mail, and teleconferencing. Basic navigational skills for using the Internet will be developed and increased to permit each participant to create his or her own home page. If credit is received for ED 5403/403, credit may not be received for any of the following: ED 5425/425, 5426/426 or 5427/427.	3	3
ED 5404	TECHNOLOGY TOOLS FOR LEARNING (3) Fundamentals of productivity, authoring and presentation software packages. Productivity tools will include word processing, spreadsheets, and database applications. An authoring tool to design and present instructional material will also be introduced and applied in practical situations. If credit for ED 5404/404 is received, credit for any of the following may not be received: ED 5428/428, 5429/429 or 5430/430.	3	3

ED 5405	TECHNOLOGY AND ACADEMIC SUCCESS ACROSS CONTENT AREAS (3) Utilization of telecommunication and technology tools to develop instructional activities appropriate to students of varying abilities, achievement levels and interests from different social and cultural backgrounds. Development of projects in each of the content areas. If credit for ED 5405/405 is received, credit for any of the following may not be received: ED 5431/431, 5432/432 or 5433/433.	3	3
ED 5415	VOCATIONAL INSTRUCTOR PRACTICUM (1-6) Employment experience in business or industry for vocational teachers which relates to their teaching areas. Forty hours of employment will be required for each credit and four hours of seminar will help to relate the job experience and academic teaching responsibilities. Participating students will prepare a paper or project which relates the school curriculum or instruction to new requirements of employers. May be repeated for credit up to a total of six credit hours.	1	1
ED 5420	RESEARCH IN LEARNING AND TECHNOLOGY (1) Overview of research literature in learning theory and its relation to technology education. Principles and "Best Practices" in learning research are examined in terms of major technology application categories. Credit will be given for ED 5420/420 or ED 5401/401, but not both.	1	1
ED 5421	HARDWARE AND SOFTWARE TRENDS AND THEIR IMPLICATION FOR LEARNING (1) Survey and analysis of the hardware and software trends specific to education. Implications for learning and technology found in schools. Credit will be given for ED 5421/421 or ED 5401/401, but not both.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
ED 5422	INTRODUCTION TO AUTHORING SYSTEMS (1) Introduction to authoring systems and programs. Emphasis on authoring systems as tools to provide interactive content and presentation of information. Credit will be given for ED 5422/422 or ED 5401/401, but not both.	1	1
ED 5423	WRITING A TECHNOLOGY PLAN (2) Review of state guidelines for technology plans. Extensive examination of existing plans as basis for the development of a local technology plan. Credit will be given for ED 5423/423 or ED 5402/402, but not both.	2	2
ED 5424	IMPLEMENTATION OF TECHNOLOGY NETWORKS IN SCHOOLS (1) Examination of local (LANs), wide area networks (WANs), curriculum deliver, and staff development. Credit will be given for ED 5424/424 or ED 5402/402, but not both.	1	1

ED 5425	INTRODUCTION TO INTERNET, E-MAIL, TELECONFERENCING (1) Basics of Internet, e-mail, and teleconferencing. Review of alternatives available and installation of software to use these services. Credit will be given for ED 5425/425 or ED 5403/403, but not both.	1	1
ED 5426	HOW TO USE INTERNET, E-MAIL, AND TELECONFERENCING (1) Hands-on experience with internet, e-mail, and teleconferencing with explanation and practice of all common features available in these tools. Internet includes use of features to individualize browser to enhance use in instructional settings. E-mail features such as filters and mail groups are taught. Videoconferencing includes use of white boards and other collaborative features. Credit will be given for ED 5426/426 or ED 5403/403, but not both.	1	1
ED 5427	APPLICATION OF TELECOMMUNICATION TOOLS IN INSTRUCTIONAL SETTINGS (1) Review of various instructional applications and internet, e-mail, and videoconferencing projects. Hands-on experiences in setting up and participating in such projects is provided. Credit will be given for ED 5427/427 or ED 5403/403, but not both.	1	1
ED 5428	INTRODUCTION TO PRODUCTIVITY SOFTWARE (1) Introduction to major applications of word processing, spreadsheets, and databases. Emphasis on basics of use in various instructional applications. Credit will be given for ED 5428/428 or ED 5404/404, but not both.	1	1
ED 5429	AUTHORING PROGRAMS (1) Comparison of most popular authoring programs. Hands-on application of one authoring program to the development of a lesson. Credit will be given for ED 5429/429 or ED 5404/404, but not both.	1	1
ED 5430	PRESENTATION PROGRAMS (1) Review of the elements of a good presentation and popular software presentation programs.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Use of a program to develop an original presentation. Credit will be given for ED 5430/430 or ED 5404/404, but not both.		
ED 5431	TECHNOLOGY INSTRUCTION IN THE CONTENT AREA (1) Examination of technology applications across content areas. Software trends and availability in each content area. Credit will be given for ED 5431/431 or ED 5405/405, but not both.	1	1

ED 5432	TECHNOLOGY INSTRUCTION FOR STUDENTS OF DIFFERENT ACHIEVEMENT AND ABILITY LEVELS (1) Examination of how technology can address the needs of learners of different achievement and ability levels. Ways of adapting software and technology application to better meet students with different needs. Credit will be given for ED 5432/432 or ED 5405/405, but not both.	1	1
ED 5433	TECHNOLOGY INSTRUCTION FOR STUDENTS WITH LANGUAGE AND CULTURAL DIFFERENCES (1) Uses of technology to meet the needs of students with different language and cultural backgrounds. Examination of available software and ways to adapt existing software to better meet the needs of these students. Credit will be given for ED 5433/433 or 5405/405, but not both.	1	1
ED 5440	PHILOSOPHY, CURRICULUM, AND INSTRUCTIONAL METHODS FOR THE MIDDLE SCHOOL (3) Examination of the origin and development of the middle school concept, responsibilities of the middle school classroom teacher, and developmentally appropriate instructional practices for middle school teaching, including content area reading. Course satisfies three of six-hour component required for middle school endorsements. Credit not given for both ED 440 and ELCF 5440/344G or ED 5440. Prerequisites: Admission to the College of Education or Initial or Standard Teacher Certificate	3	3
ED 5450	ADVANCED METHODS AND TECHNIQUES FOR TEACHING SUBJECT AREA SPECIALTY IN SECONDARY SCHOOLS /FIELD 30 CLOCK HOURS (3) Examination and application of methodologies and techniques for teaching subject area specialty. Thirty clock hours of tutoring per term for students enrolled in the M.A.T. program in secondary education. Prerequisites: Admission to Teachers for Chicago or Troops to Teachers Master's Degree/Intern Program or Master of Arts in Teaching Secondary Education program; consent of the program advisor.	3	3
ED 5460	INTERNSHIP AND SEMINAR IN ELEMENTARY TEACHING (6) Sixteen weeks clinical supervision of teaching internship in an elementary school. Five full	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>days per week including seminar.</p> <p>Prerequisites: Admission to Teachers for Chicago or Troops to Teachers Master's Degree/Intern Program or Master of Arts in Teaching Elementary Education Program; completion of all courses required for certification; consent of the program advisor; and a passing score on the subject matter/content area certification test within the last five years.</p>		
ED 5465	<p>INTERNSHIP IN ALTERNATIVE PROGRAM IN ELEMENTARY EDUCATION (2)</p> <p>Sixteen weeks of teaching internship under clinical supervision in an elementary school in a two year internship program. Must be repeated for a total of 8 semester hours of credit over a two year period to satisfy internship requirement for certification.</p> <p>Prerequisites: Admission to alternative master's/intern program in elementary education and consent of program advisor; and a passing score on the subject matter/content area certification test within the last five years.</p>	2	2
ED 5466	<p>INTERNSHIP IN ALTERNATIVE PROGRAM IN SECONDARY EDUCATION (2)</p> <p>Sixteen weeks of teaching internship under clinical supervision in a secondary school classroom in a two year internship program. Must be repeated for a total of 8 semester hours of credit over a two year period to satisfy internship requirement for certification.</p> <p>Prerequisite: Admission to alternative master's/intern program in secondary education and consent of program advisor.</p>	2	2
ED 5467	<p>INTERNSHIP IN ALTERNATIVE PROGRAM IN K-12 EDUCATION (2)</p> <p>Sixteen weeks of teaching internship under clinical supervision in a K-12 subject in a two year internship program. Must be repeated for a total of 8 semester hours of credit over a two year period to satisfy internship requirement for certification.</p>	2	2
ED 5470	<p>INTERNSHIP AND SEMINAR IN TEACHING SUBJECT AREA SPECIALTY IN THE SECONDARY SCHOOLS (6)</p> <p>Sixteen week clinical supervision of teaching internship in an endorsed subject area at the secondary level. Five full days per week including seminar.</p> <p>Prerequisites: Admission to Teachers for Chicago or Troops to Teachers Master's Degree/Intern Program or Master of Arts in Teaching Secondary Education Program; completion of all courses required for certification; consent of the program advisor; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
ED 5480	<p>INTERNSHIP AND SEMINAR IN MIDDLE LEVEL TEACHING (6)/FIELD/ FIVE FULL DAYS/SEMINAR ONE HOUR PER WEEK/16 WEEKS (3)</p> <p>Placement in an elementary field-based classroom with an emphasis in intermediate and middle school settings. University and cooperating school supervision will occur for the five full days over 16 weeks in the classroom plus one weekly seminar held on-site or on-campus.</p>	6	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Admission to the College of Education and the Master of Arts program at the Middle Level; Completion of all other coursework in the program; A 3.0 grade point average in all master;s level coursework in the program; and consent of department.		
ED 5485	<p>INTERNSHIP AND SEMINAR IN EARLY CHILDHOOD EDUCATION (6)</p> <p>Internship in preschool (pre K) setting and primary grade (K-3) classroom. Five full days for 16 weeks including seminar. The course requires an Impact on Student Learning Capstone Project.</p> <p>Prerequisite: Admission to M.A.T. program in ECH and consent of the program advisor; completion of all courses required for certification; minimum 3.0 grade point average in master's degree courses; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
ED 5490	<p>RESEARCH IN SECONDARY EDUCATION (3)</p> <p>Principles and methods of research in secondary education. Skills identifying problems, developing problem statements, formulating hypotheses, designing research studies, collecting analyzing and interpreting data, preparing a literature review and preparing a research proposal.</p> <p>Prerequisites: Admission to the College of Education and the Masters of Arts in Teaching Program.</p>	3	3
ED 5492	<p>THE URBAN TEACHER / FIELD / 5 CLOCK HOURS (3)</p> <p>Examination of the current issues related to being a successful urban teacher. Topics include: teaching as a profession; diversity; school reform; ethics, values, and attitudes; multiple intelligence; creating an environment for learning; classroom management and discipline; curriculum development and planning; assessment and evaluation; teaching models; school family and community relationships; resources; professionalism; and stress management. Five hours of observation per term and the completion of a major research paper are required. Credit cannot be given for ED 5400/400 and ED 5492.</p> <p>Prerequisites: Admission to the College of Education and the Masters of Arts in Teaching Program.</p>	3	3
ED 5500	<p>PRINCIPLES AND PRACTICES IN SECONDARY EDUCATION LECTURE /FIELD (2)</p> <p>Secondary education principles and methods including unit plans, lesson plans, and behavioral objectives. Multicultural nature of society and its impact on teaching. Normal and exceptional children in regular classrooms. Twenty-five clock hours of classroom aiding and tutoring per term.</p> <p>Prerequisite: ELCF 2000/200 (or ED 2000); PSYC 2040/204 and 2020/206. Admission to the College of Education.</p>	2	2

ED 5510	ADVANCED METHODS & TECHNIQUES FOR TEACHING SUBJECT AREA SPECIALTY IN ELEMENTARY/MIDDLE SCHOOLS (3)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Examination and application of methodologies and techniques for teaching subject area specialty for elementary and middle school. Thirty clock hours of tutoring per term for students enrolled in the M.A.T. program in K-12 education.</p> <p>Prerequisites: Admission to Teachers for Chicago or Troops to Teachers Master's Degree/Intern Program or Master of Arts in Teaching K-12 Education program; consent of program advisor.</p>		
ED 5610	<p>EDUCATIONAL ISSUES IN THE BLACK COMMUNITY (3)</p> <p>Control of schools, relevance of curriculum, teacher qualifications, and Black self-concept, achievement, and intelligence.</p>	3	3
ED 5650	<p>SEMINAR IN URBAN EDUCATION (3)</p> <p>Examination of current issues and research in urban education.</p>	3	3
ED 5750	<p>INTERNSHIP & SEMINAR IN TEACHING SUBJECT AREA SPECIALTY IN K-12 SCHOOLS (6)</p> <p>Prerequisites: Admission to Teachers for Chicago or Troops to Teachers Master's Degree/Intern Program or Master of Arts in Teaching K-12 Education Program; completion of all courses required for certification; consent of program advisor; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
ED 5820	<p>EDUCATION FUNDAMENTALS FOR SCHOOL COUNSELORS (4)</p> <p>The course covers Illinois required content: The psychology and methods of instruction of the exceptional child in cross-categorical special education; reading methods and content area reading; the structure, organization and operation of the P-12 educational system; the diversity of Illinois students and the laws and programs designed to meet their needs; and effective management of the classroom and learning process. Designed for candidates enrolling in the school counseling program who are not licensed teachers. Fifteen hours of teacher-aiding.</p> <p>Prerequisite: Conditional admission to Master's degree program in School Counseling or consent of Psychology department.</p>	4	4

ED 5960	FUNDAMENTALS OF EDUCATIONAL RESEARCH (3) Principles and methods of educational research. Acquire skills in developing problems statements, formulating hypotheses, selecting populations/samples, collecting data, analyzing and interpreting results, use of technology to support research. Designed for teachers as well as administrative candidates. Individual projects will focus on students' needs and interests. Credit not given for both ELCF 5960/496/ED 5960 and ELCF 429 or 497. Prerequisite: Consent of the department.	3	3
ED 5988	PROFESSIONAL PORTFOLIO & EFFECTIVE PRACTICES (3-6) Exploration of effective teaching, learning and research practices in an educational setting.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Application and documentation of effective practices including impact on student learning/learning environment, classroom management, and dispositions through development of a digital professional portfolio. Course may be taken with student teaching/internship. Course may be repeated and may not be counted toward degree credits. Prerequisite: Admission to the College of Education		
ED 5998	POLICY ISSUES IN INTERNATIONAL EDUCATION (3) Exploration of current policy issues in education in the developing world. Topics include women and education, education for all, democracy and education. Additional, optional 3 credit hours of study abroad may be obtained by taking S AB 5980, if funds are available.	3	3
ED 5999	THESIS/PROJECT IN SECONDARY EDUCATION (1-6) Individually supervised research as approved by the department. Course content varies and is designed around departmentally approved thesis, project or paper. This is a variable credit course that will be repeated until research is accepted by the department. Prerequisites: Completion of ED 5490/490 and admission into the College of Education and the Masters of Arts in Teaching Program.	1	1

Doctorate in Ed Ldrshp (EDDL)

Course	Course Description	Credit Hrs.	Contact Hrs.
EDDL 6010	<p>ORGANIZATIONAL THEORY AND EDUCATIONAL LEADERSHIP (3)</p> <p>The study of conceptual frameworks to understand and improve the organizational dynamics of educational institutions. Critical examination of theoretical assertions and empirical knowledge. Implications of institutionalized organizational actions on longterm quality improvement.</p> <p>Prerequisite: Admission to doctoral program in Educational Leadership.</p>	3	3
EDDL 6050	<p>EDUCATIONAL STATISTICS (3)</p> <p>Examination of the different approaches of educational inquiry and the associated methods. Emphasis on both descriptive and inferential statistics as related to quantitative and qualitative research. Acquisition of critical thinking and analytical skills used in the field of educational research.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership.</p>	3	3
EDDL 6100	<p>CURRICULUM AND INSTRUCTIONAL THEORY (3)</p> <p>Exploration and analysis of curriculum and instructional theory. Understanding and deconstructing the elements of curriculum and instructional theory. Analyzing, evaluating, and synthesizing curricular and instructional concepts.</p> <p>Prerequisite: Admission to Doctoral Program in Educational Leadership.</p>	3	3
EDDL 6150	<p>PHILOSOPHICAL AND ETHICAL FOUNDATIONS OF EDUCATION (3)</p> <p>Examination of long established philosophical traditions, such as idealism, perennialism, essentialism, romanticism, pragmatism, etc., and the ethical ramifications in the field of education. Particular emphasis will be given to the application of philosophical theories to educational issues, including but not limited to educational leadership.</p> <p>Prerequisite: Admission to doctoral program.</p>	3	3
EDDL 6200	<p>ADMINISTRATIVE LAW (3)</p> <p>In-depth critical examination of current legal issues and their educational implications. Cases germane to Illinois school boards, including torts/liabilities, contracts, and collective negotiations are emphasized. Additional issues include personnel administration (hiring and firing of staff), grievances, contract administration, and more.</p> <p>Prerequisite: Admission to doctoral program in Educational Leadership.</p>	3	3

EDDL 6250	QUANTITATIVE RESEARCH (3) Examination of practical implications of quantitative research in the field of educational	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>leadership. Provides experience in conducting basic quantitative research (t-test, correlations, analysis of variance, Chi-squares). Study in immediate statistical methods normally found in research and work applications.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership; Completion of EDDL 6050 with a grade of B or better.</p>		
EDDL 6300	<p>PUBLIC POLICY AND POLITICS OF EDUCATION (3)</p> <p>Macro and micro-level policy formation processes and the models of policy analysis in urban education. Analysis of the institutional and environmental factors influencing policy formation, implementation, and evaluation. Examination of conceptual, philosophical, and ethical issues related to educational policy-making at the national, regional, state, local, and institutional levels.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership.</p>	3	3
EDDL 6350	<p>QUALITATIVE RESEARCH (3)</p> <p>Review of theories, methodologies, and findings of qualitative research. Design and implementation of fieldwork in various research settings; community, institutional, classroom, and life history studies. Examination of issues in qualitative research.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership.</p>	3	3
EDDL 6400	<p>PERSONNEL ADMINISTRATION (3)</p> <p>Exploration and analysis of the history, philosophy, psychological, and sociological factors affecting human resource management. An examination of employee satisfaction, academic freedom, facilitation and management of teamwork, hiring and assignment of staff, staff discipline, management of non-certified and non-teaching personnel, compensation and payroll, and staff development.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership.</p>	3	3
EDDL 6450	<p>FINANCIAL ADMINISTRATION (3)</p> <p>In-depth study of the sources of funding for schools in Illinois with a focus on local (real estate) revenues, state funding formulae, and federal funds which are available to elementary and secondary schools, colleges, and universities. Exploration of issues in school finance law from the Illinois School Code and the Illinois and U.S. Constitutions.</p> <p>Prerequisites: Admission to doctoral program in Educational Leadership.</p>	3	3

EDDL 6500	EDUCATIONAL CHANGE AND SCHOOL IMPROVEMENT (3) In-depth examination of change process, change strategies, institutionalization of change, school self-renewal, reform programs for changing the organization of school systems, instructional programs, and the roles of educators to improve learning. Exploration of the pivotal role of educational leaders (boards of education, superintendents, college	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	presidents) in educational improvement and building a community of learners. Prerequisites: Admission to doctoral program in Educational Leadership.		
EDDL 6550	EDUCATIONAL ASSESSMENT AND EVALUATION (3) Exploration of various models of evaluation and assessment. Identification of issues that impact upon district-wide assessment, such as school organization, instructional practices, or student achievement, and discussion relative to program effectiveness. Prerequisites: Admission to doctoral program in Educational Leadership.	3	3
EDDL 6600	CRITICAL ISSUES IN URBAN EDUCATIONAL LEADERSHIP (3) Overview of critical issues in educational leadership: organization of urban schools, school violence, vouchers, gender, equity in school finance, reading, integration, affirmative action, critical thinking, multicultural education, national curriculum, values, business, testing, teacher empowerment, mainstreaming, academic freedom, unions, and private schooling. Prerequisites: Admission to doctoral program in Educational Leadership	3	3
EDDL 6650	SEMINAR IN RESEARCH AND DISSERTATION DEVELOPMENT (3) Development of a dissertation topic. Review and summary of relevant literature. The dissertation proposal thus developed will be for practice purposes only. Prerequisites: Admission to doctoral program in Educational Leadership.	3	3
EDDL 6700	CLINICAL EXPERIENCE (3) Clinical experience for students with Type 75 certificates wishing to have a superintendent endorsement. One hundred clock hours in an educational institution, at the regional or district level. Prerequisites: Admission to the Candidacy of the Doctoral Program in Ed. Leadership, successful completion of Illinois Certification Test of Basic Skills, and successful completion of Illinois Certification Test in Educational Administration	3	3

EDDL 6710	CLINICAL EXPERIENCE II (3) Clinical experience for students with Type 75 certificates wishing to have a superintendent endorsement. One hundred clock hours in an educational institution, at the district or state level. Prerequisites: Admission to the Candidacy of the Doctoral Program in Ed. Leadership, ELCF 6700/670, and successful completion of Illinois Certification Test of Superintendency in Education.	3	3
EDDL 6990	DISSERTATION (1 to 6)	1	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Production of a scholarly dissertation that significantly contributes to the body of knowledge in the field. Following admission to candidacy, a doctoral student must enroll for 1 to 6 dissertation hours every fall and spring term for a minimum of 12 semester hours until completion of dissertation. Candidates have seven (7) years from the date of admission to complete the program. May repeat for credit. Prerequisites: Admission to doctoral program in Educational Leadership.		

Ed Leadshp Curr & Foundations (ELCF)

Course	Course Description	Credit Hrs.	Contact Hrs.
ELCF 4990		1	1
ELCF 4999	<p>SPECIAL TOPICS IN EDUCATION (1-3)</p> <p>Educational problems that have a high degree of contemporary significance.</p> <p>Prerequisite: Consent of the department.</p>	1	1
ELCF 5010	<p>CURRICULUM DEVELOPMENT AND LEARNING THEORIES (3)</p> <p>Analyzes the historical/philosophical elements, which have influenced curriculum design. Social, cultural and psychological factors that affect the academic performance of students, as related to theories associated with curriculum development and the teaching/ learning process, are stressed. Attention is given to English learners and special needs students. Various methods for evaluating effective curricula are also examined.</p> <p>Prerequisite: Twelve hours of professional education.</p>	3	3
ELCF 5040	<p>COMPARATIVE AND INTERNATIONAL EDUCATION: LATIN AMERICA (3)</p> <p>In-depth study of education in Latin America. Readings, discussion and class presentations.</p>	3	3
ELCF 5100	<p>POLITICS OF EDUCATION (3)</p> <p>An examination of the various political forces in educational institutions, the community, government and society that influence and shape education. Designed to enable educators to become more effective and responsible actors within the complex web of political relationships that impact public education. Research and theory in education, social science, and public policy, with applications through case-study analyses and student projects.</p>	3	3
ELCF 5130	<p>HUMAN RELATIONS AND LEADERSHIP (3)</p> <p>Study of basic concepts and principles of interpersonal relationships, dynamics of groups, and organizational leadership. Emphasis on theory and application. Student will learn to observe and assess interpersonal, group and organizational dynamics in multicultural settings, and learn effective interactions and problem solving skills. Designed for teachers, trainers, supervisors, administrators, school service personnel and community leaders.</p>	3	3

ELCF 5150	LEADERSHIP IN IMPLEMENTING RESEARCH - BASED PRACTICES / FIELD (4)	4	4
<p>Examines characteristics of high quality, scientific and research-based interventions, the alignment of instruction to the Common Core State Standards (CCSS), and how to assist and support teachers in the use of high quality, standards - based and scientifically based instructional practices and assessments. Provides an overview of the use of quantitative and qualitative data collection and analysis to inform instructional and policy decisions, and leadership on the development of data driven action plans for continuous improvement while meeting the needs of a diverse student body. Emphasis on techniques and leadership competencies to screen students who may be at risk of academic failure;</p>			

Course	Course Description	Credit Hrs.	Contact Hrs.
	monitoring of the effectiveness of instruction proposed for students identified as at risk; and modifying instruction to meet the needs of each student. (ISLLC / IPSSL 1, 2, 3)		
ELCF 5210	FOUNDATIONS OF SCHOOLADMINISTRATION ANDORGANIZATION (3)	3	3
<p>Introduction to the study of educational administration with emphasis upon the nature of the administrative process, administrative theory, and long range planning and personnel management; overview of structure, governance, policy of public education, and school reforms at the local, state and federal levels including legal, business, financial and the political, social and cultural context of schools in society. Administration of schools and programs including multicultural student populations and exceptional children.</p> <p>Prerequisite: Twelve hours of professional education.</p>			
ELCF 5230	ADMINISTRATION AND SUPERVISION IN P-12 SCHOOLS (3)	3	3
<p>An examination of elementary and secondary schools with an emphasis upon the administrative and supervisory role of the principal. Analysis of supervisory behavior and its influence upon the participants, school climate, academic excellence, staff development, curriculum development, fiscal and human resources. Students will engage in action research and have opportunities to solve problems with simulated materials which include emphasis on program and personnel evaluation. Social and cultural factors and special education programs will be analyzed. Twenty clock hours of practicum experience in schools.</p> <p>Prerequisites: ELCF 5010/401 and ELCF 5210/421.</p>			

ELCF 5235	ADMINISTRATION AND SUPERVISION OF EXCEPTIONAL AND GENERAL EDUCATION PROGRAMS / FIELD (4) This course is designed to focus on principles and problems involved in the evaluation, supervision, and administration of exceptional and general education programs, and certified staff. Information covered will pertain to procedures for developing the capacity for distributed leadership, in addition to obtaining, allocating, aligning and efficiently utilizing human, fiscal and technological resources. Emphasis will also be paced on strategies for supervising instruction, techniques for promoting and protecting the welfare and safety of students and staff, and procedures for ensuring teacher and organizational time is focused to support quality instruction and student learning. A Professional Development Plan, completed under the supervision of the departmental faculty, will be required in this course. (ISLLC 4)	4	4
ELCF 5240	SCHOOL SUPERVISION /FIELD (3) An analysis of the components of supervisory behavior in education and their influence upon the participants in the process of supervision; human and technical skills in personnel management; organizational factors affecting the performance of the supervisor; problematic areas within educational institutions and their influence upon supervisory behavior. Practical aspects of program and personnel evaluation; improvement of school learning climate and academic achievement will be emphasized as they relate to school reform and both multicultural and exceptional populations. Twenty	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	clock hours of practicum experience in schools. Prerequisite: ELCF 5210/421 or consent of the department.		
ELCF 5245	SUPERVISION AND ASSESSMENT OF LITERACY AND NUMERACY INITIATIVES ACROSS THE GRADES AND CONTENT AREAS / FIELD (4) Evaluates literacy and numeracy skills and the supervision of the implementation of literacy and numeracy skills aligned with the Common Core State Standards (CCSS) across the grades and across content areas. Emphasis on how to assess and evaluate student progress in reading and mathematics and how to modify teaching approaches to meet the needs of the students. Acquisition of supervisory and leadership skills in the assessment and evaluation of K-12 literacy and numeracy across curriculum. (ISLLC / IPSSL 1,2,3)	4	4
ELCF 5310	COMMUNITY RELATIONS /FIELD (3) An analysis of the role of educational policy in the modern community, community power structure and resources, the social and political context, and the principles of community relations in the context of social change, including group processes, multicultural and multiethnic understanding, the needs of exceptional students, interagency cooperation, funding, and evaluation. Students are provided opportunities to develop materials for use in their institutions. Twenty clock hours of practicum experience in schools. Prerequisite: ELCF 5210/421 or consent of the department.	3	3

ELCF 5320	CURRICULUM DEVELOPMENT, INSTRUCTIONAL DESIGN, AND DELIVERY IN SCHOOL AND NON-SCHOOL SETTINGS (3) The development of knowledge and skills in the systems approach to the decision-making process for curriculum development, instructional design, and curriculum delivery in school and non-school settings.	3	3
ELCF 5330	SCHOOL LAW (3) Practical application of educational law. Key content areas related to the legal system; role of the federal, state and local government; the legislative process; school/higher institutions of learning governance; school/higher institutions of learning policies, rules and regulations; church and state; civil rights; students and parents' rights and responsibilities; teachers', faculty and administrators' rights and responsibilities; collective negotiations; torts and contracts; and legal research are covered. Selected legal principles, statutes, cases and law agencies, which affect all levels of Illinois public learning institutions, are also analyzed. Prerequisite: ELCF 5210/421 or consent of the department.	3	3
ELCF 5335	SCHOOL LAW FOR GENERAL AND EXCEPTIONAL EDUCATION (3) Specially designed for the practical application of educational law, integrating both exceptional and general education. Key content areas related to the legal system, role of the federal, state and local governments; the legislative process; school governance; school policies / rules and regulations; church and state; civil rights; students / parents' rights / responsibilities; teacher / faculty and administrators' rights / responsibilities;	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	collective negotiations; torts / contracts; and legal research are covered. Selected legal principles / statutes, case law and law agencies, which affect all levels of Illinois public learning institutions, are also analyzed. (ISLLC / IPSSL 3, 5, 6)		
ELCF 5340	PRACTICUM IN INSTRUCTIONAL LEADERSHIP AND SCHOOL MANAGEMENT I (3) The major purpose of the practicum is to provide the student with a supervised experience in the functions and duties associated with instructional leadership and school management. Each student will participate in administrative activities related to instructional leadership one term and school management the other term. Examples of tasks include staff and curriculum development, pupil personnel services, establishing and maintaining effective learning environments, implementation of policy, business and facilities management, and community relations. Prerequisite: ELCF 5010/401, 5130/413, 5210/421, 5240/424, 5310/431, 5330/433, 5370/437, 5980/498 and consent of department.	3	3

ELCF 5345	<p>INTERNSHIP I (2)</p> <p>The internship is a sustained, continuous, structured and supervised experience lasting for a substantial period of time in which the candidate engages in performance of various aspects of the role and is gradually introduced to the full range of responsibilities associated with role. Internships take place in all types of situations and settings. During the first semester of internship, the candidate will work under the direction of an internship mentor and a faculty supervisor to demonstrate a comprehensive understanding and performance in Data analysis, school improvement and conducting the School Improvement Plan (SIP) process (to the extent possible). (ISLLC 1, 2, 3, 4, 5, 6)</p> <p>Prerequisites: Passing score on the Evaluation of Certified Staff.</p>	2	2
ELCF 5346	<p>INTERNSHIP II (2)</p> <p>The internship is a sustained, continuous, structured and supervised experience lasting for a substantial period of time in which the candidate engages in performance of various aspects of the role and is gradually introduced to the full range of responsibilities associated with the role. Internships take place in all types of situations and settings. During the second semester of internship, the candidate will work under the direction of an internship mentor and a faculty supervisor to demonstrate a comprehensive understanding and performance in conducting teacher hiring, faculty evaluation, and professional development. (ISLLC 1, 2, 3, 4, 5, 6)</p> <p>Prerequisites: ELCF 5346</p>	2	2
ELCF 5347	<p>INTERNSHIP III (2)</p> <p>The internship is a sustained, continuous, structured and supervised experience lasting for a substantial period of time in which the candidate engages in performance various aspects of the role and is gradually introduced to the full range of responsibilities associated with the role. Internships take place in all types of situations and settings. During the second semester of internship, the candidate will work under the direction of an internship mentor and a faculty supervisor to demonstrate a comprehensive</p>	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>understanding and performance in conducting school-wide management of personnel, resources and systems for adequacy and equity. (ISLLC 1, 2, 3, 4, 5, 6)</p> <p>Prerequisites: ELCF 5345 and ELCF 5346.</p>		

ELCF 5348	<p>PRINCIPAL ENDORSEMENT INTERNSHIP (2)</p> <p>The internship is a “sustained, continuous, structured and supervised experience lasting for a substantial period of time in which the candidate engages in performance of various aspects of the role and is gradually introduced to the full range of responsibilities associated with the role.” Internships take place in all types of situation and settings. The internship is a minimum of 240 hours, completed in 2 credit hours per semester, for a total of 6 credit hours completed over 3 semesters, but not exceeding 24 months. The candidate will work under the direction of an internship mentor and a faculty supervisor to demonstrate comprehensive understanding and performance in (1) data analysis, school improvement plan (SIP) process (to the extent possible), (2) conducting teacher hiring, faculty evaluation and professional development and (3) conducting school-wide management of personnel, resources and systems for adequacy and equity. Candidate must successfully pass the Training in Evaluation of Certified Staff and the Illinois Licensure Test for Principals to receive full credit for the course.</p>	2	2
ELCF 5350	<p>PRACTICUM IN INSTRUCTIONAL LEADERSHIP AND SCHOOL MANAGEMENT II (3)</p> <p>The major purpose of the practicum is to provide the student with a supervised experience in the functions and duties associated with instructional leadership and school management. Each student will participate in administrative activities related to instructional leadership one term and school management the other term. Examples of tasks include staff and curriculum development, pupil personnel services, establishing and maintaining effective learning environments, implementation of policy, business and facilities management, and community relations.</p> <p>Prerequisite: ELCF 5340/434; Successful completion of the ICTS examination in General Administration/Principles, and consent of the department.</p>	3	3
ELCF 5360	<p>ADMINISTRATION OF SCHOOL PERSONNEL (3)</p> <p>Provides a general understanding of the personnel functions in education. Decisionmaking and problem-solving involving school personnel and supervision will be emphasized. Functions of recruitment, assignment, development, coordination, compensation, appraisal, negotiations, in-service education, motivation, and dismissal are included.</p> <p>Prerequisite: ELCF 5210/421 or consent of the department.</p>	3	3
ELCF 5370	<p>SCHOOL FINANCE (3)</p> <p>This course is a comprehensive overview of the funding of public education in Illinois and the United States. It is an interdisciplinary attempt (incorporating historical, political,</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>economic, legal, social, and philosophical foundations) to provide school administrators with a clear understanding of the financing of public education and the issues and controversies confronting the financing of American education today. Twenty clock hours of practicum experience in schools.</p> <p>Prerequisites: Consent of Department.</p>		
ELCF 5375	<p>MANAGING FISCAL RESOURCES AND OPERATIONS (3)</p> <p>This course is a comprehensive overview of the funding of public education in Illinois and the United States. It is an interdisciplinary attempt (incorporating historical, political, economic, legal, social and philosophical foundations) to provide school administrators with a clear understanding of the financing of public education and the issues and controversies confronting the financing of American education today. (ISLLC / IPSSL 1, 3)</p>	3	3
ELCF 5380	<p>COLLECTIVE NEGOTIATIONS (3)</p> <p>Explores the historical, sociological and legal elements which have influenced the development of collective bargaining. Concepts associated with the current process of collective negotiations relevant to elementary/secondary school districts and higher institutions of learning are examined. The role of school districts/higher institutions of learning personnel, public sector and media are stressed. Simulated bargaining exercises, which include the use of table tactics/strategies and impasse resolutions, are also offered.</p> <p>Prerequisites: ELCF 5210/421, 5330/433, or consent of the department.</p>	3	3
ELCF 5390	<p>METHODS AND TECHNIQUES FOR TEACHING IN NON-SCHOOL SETTINGS (3)</p> <p>The application of adult learning theories in the selection of instructional methods and techniques in a non-school setting, e.g., allied health care, business, industry, social services, and government agencies.</p> <p>Prerequisite: Consent of the department.</p>	3	3
ELCF 5400	<p>HIGHER EDUCATION ADMINISTRATIVE LAW (3)</p> <p>Application of higher education administrative law. Federal, state and local legislation, regulating policies pertinent to contractual agreements, including collective bargaining, tort law, and discriminatory practices. Case law and related research topics affecting the governance of higher education institutions.</p> <p>Prerequisite: Consent of the department.</p>	3	3
ELCF 5410	<p>PROPOSAL DEVELOPMENT FOR GOVERNMENT AND PRIVATE FUNDING (3)</p> <p>The development and submission of proposals for government and private funding. Each student will develop a proposal for potential submission to a funding agency.</p> <p>Prerequisite: Consent of the department.</p>	3	3
ELCF 5420	<p>MICROCOMPUTERS IN EDUCATION (3)</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>An overview of the philosophy and approaches to educational utilization of microcomputers. Focus on hardware, software, existing programs, funding and potential for administrative and instructional microcomputer use. Hands-on experience. Additional course fee.</p> <p>Prerequisite: Consent of the department.</p>		
ELCF 5460	<p>MICROCOMPUTER APPLICATIONS IN HIGHER EDUCATION MANAGEMENT (3)</p> <p>Introduction to microcomputer applications for higher education managers. Includes the use of computer software for program assessment, marketing strategies, presentations, budget analysis, course schedules and record/grade maintenance. Professional utilization of online operations is also emphasized.</p> <p>Prerequisite: Consent of the department.</p>	3	3
ELCF 5510	<p>INDEPENDENT STUDY (3)</p> <p>To avoid repetition of instruction, a student who has taken in another institution the courses in education given at Chicago State University, may with the consent of the Graduate Committee enroll with a designated instructor for the independent study of certain educational problems of mutual interest. Plans for such investigation are made in written form or in such a manner as the instructor may specify.</p> <p>Prerequisite: Consent of the department.</p>	3	3
ELCF 5530	<p>SECONDARY SCHOOL CURRICULUM (3)</p> <p>Current secondary school curricular practices and alternatives explored and analyzed. Examination of factors influencing curriculum development, organization, and content of the curriculum in various secondary field subjects and in core.</p>	3	3
ELCF 5540	<p>INSTRUCTIONAL MEDIA AND NEW INSTRUCTIONAL TECHNOLOGIES FOR CURRICULUM DELIVERY AND PRACTICES IN TODAY'S SCHOOL AND NON-SCHOOL SETTINGS (3)</p> <p>Classroom practices and media for effective teaching in today's schools and non-school settings. Current research on learning and implications for solving typical teaching problems through the application of instructional technology.</p>	3	3
ELCF 5600	<p>SEMINAR IN FINANCING AND BUDGETING OF HIGHER EDUCATION (3)</p> <p>A theoretical study of the legislative process for financing higher education, including state aid; taxation/grants; and private funding. Budget analysis and auditing processes will be explored as they relate to contracts, salaries, and school facilities.</p> <p>Prerequisite: ELCF 5380/438 or consent of the department.</p>	3	3

ELCF 5620	SOCIOLOGICAL AND CULTURAL FOUNDATIONS OF EDUCATION (3) Examines socialization from the perspective of the larger American society including the transmission of culture in a pluralistic society and the role of education in the	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	acculturation and assimilation process. Explores the relationship of life styles to teaching and learning styles.		
ELCF 5640	SEMINAR IN ORGANIZATIONAL DYNAMICS (3) An introduction to contemporary thinking about organizations and the actions of people in them. An understanding of organization theory expands understanding of contemporary practice, provides a framework for helpful critique of professional practice, brings to light promising alternatives, and focuses organizational research on persistent and interesting problems and realities of professional practice in school and non-school settings.	3	3
ELCF 5660	MASTER'S THESIS/PROJECT (3) Research and writing of thesis or project for master's degree in urban education. Prerequisite: Taken after the completion of twenty-four semester hours of a master's degree program with prior consent of the department.	3	3
ELCF 5661	INTRODUCTION TO EDUCATIONAL RESEARCH (2) This course is designed to cover information related to major steps involved in conducting research, creation of research questions/objectives and hypothesis, operational definitions of research constructs, sampling methods, experimental research, internal and external validity, procedures for selecting measuring instruments, basic psychometric and statistical methods, data analysis, qualitative and quantitative inquiry, mixed methods research and survey, case study, and action methods. Prerequisite(s): Must be fully admitted into the C&I; HEA or Principal Preparation; Master's Degree Program or consent of department.	2	2
ELCF 5662	MASTER'S THESIS / PROJECT I PREPARING THE PROPOSAL (2) This course is designed to cover information related to procedures for planning, designing, organizing, and managing a master's level thesis/capstone project. Students will be required to construct a proposal for their own thesis/capstone project, the first step required in the fulfillment of their degree requirements. This proposal will serve as the framework for completing the master's thesis/project. Prerequisite(s): Must be fully admitted into the C&I Master's Degree Program; Pass ELCF 5661 - Introduction to Educational Research; consent of department.	2	2

ELCF 5663	<p>MASTER'S THESIS / PROJECT II COMPLETING THE RESEARCH / CAPSTONE PROJECT (2)</p> <p>This course is designed to provide candidates with the opportunity to demonstrate their ability to plan, conduct and critically examine research reports and then, present a scientific investigation of relevance to their field of specialization by carrying out, analyzing and completing the collection of data needed for their master's thesis/projects.</p> <p>Prerequisite(s): Must be fully admitted into the C&I Master's Degree Program; Pass ELCF</p>	2	2
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Course	Course Description	Credit Hrs.	Contact Hrs.
	5661 - Introduction to Educational Research; Pass ELCF 5662 - Master's Thesis/Project I; or consent of department.		
ELCF 5710	<p>ADMINISTRATIVE USES OF MICROCOMPUTERS (3)</p> <p>An overview of administrative uses of microcomputers in educational settings. Emphasis will be on data management functions. Focus on hardware and software for use with budgets, schedules, record keeping, data processing, and word processing. Also includes some programming and review of educational hardware systems and software packages.</p> <p>Prerequisite: ELCF 5210/421 or consent of the department.</p>	3	3
ELCF 5720	<p>INTEGRATING TECHNOLOGY INTO CURRICULUM AND INSTRUCTION (3)</p> <p>Theory and research on technology in education with special emphasis given to the ways that technology can be applied to enhance a curriculum, improve instructional practice, assist student learning, and support administration and management. The acquisition and role of computer literacy skills and the emergence of new technologies, including multimedia, distance education, and the Internet. Examination and evaluation of software and methods of teaching using technology.</p>	3	3
ELCF 5725	<p>USE OF TECHNOLOGY FOR EFFECTIVE TEACHING AND ADMINISTRATIVE NEEDS (3)</p> <p>The utilization of technology to enhance decision-making, institute long-term planning, regulate the day-to-day operations of the organization. The infusion of technology in the school curriculum, supervision and professional development of teachers who use technology in the classroom, distance education, and provisions for technology funding and infrastructure. (ISLLC / IPSSL 2, 3)</p>	3	3
ELCF 5726	<p>ADVANCED CONCEPTS IN TEACHER LEADERSHIP AND PROFESSIONAL DEVELOPMENT (3)</p> <p>Examines current conceptions, research, and philosophies of educational leadership. Promotes teacher-leadership in effective teaching, learning and influence in local educational policies and programs. Provide teachers with the knowledge and skills to be leaders in their classrooms and schools, and to make teaching and learning more effective throughout their school and district, and to successfully advocate for and influence local educational policies and programs (20 field hours required).</p>	3	3

ELCF 5780	PRACTICUM IN HIGHER EDUCATION ADMINISTRATION I /106 HOURS IN FIELD (3) A supervised internship to provide students with field work experience at the community college level. Each student will participate in duties relative to the responsibilities of entry and mid-level community college administrators. Examples of task include faculty/staff development; student personnel services; policy implementation; business and facilities management; and, community relations. Prerequisite: 24 credit hours of core requirements and consent of the department.	3	3
ELCF 5790	PRACTICUM IN HIGHER EDUCATION ADMINISTRATION II / FIELD (3) A supervised internship to provide students with field work experience (106 clock hours)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	at the senior college or university level. Each student will participate in duties relative to the responsibilities of entry and mid-level and senior college or university administrators. Examples of task include faculty/staff development; student personnel services; policy implementation; business and facilities management; and, community relations. Prerequisite: ELCF 5780/478 and consent of the department.		
ELCF 5820	ETHICS IN EDUCATION (3) Applications of ethical principles to education. Critical examination and analysis of longestablished systems of ethics. Systems may include, but not limited to, idealism, utilitarianism, relativism, and perspectivism. Every student will also be expected to develop, explain and defend a personal ethic of educational practice.	3	3
ELCF 5900	THE ADULT LEARNER (3) An examination of demographic changes fostering attention on adult and young adult learners as well as stages and phases of adult life and characteristics as a framework for effective planning, programming and marketing of adult education. Prerequisite: Consent of the department	3	3
ELCF 5920	ORGANIZATION AND GOVERNANCE OF HIGHER EDUCATION (3) Examination of the historical and philosophical elements relative to the governance of higher education. Provides students with theoretical and practical knowledge about organizational structure; student services; and related faculty/staff functions. Current trends relevant to higher education issues will be emphasized. Prerequisite: Consent of the department.	3	3

ELCF 5930	HIGHER EDUCATION ADMINISTRATION AND EVALUATION (3) In-depth analysis of administrative behavior as it applies to the decision-making process. Functions associated with recruitment; student policy; the community; and program/ institutional evaluation are included. Prerequisite: ELCF 5130/413, 5330/433, 5380/438, 5920/492	3	3
ELCF 5950	PRACTICUM IN CURRICULUM AND INSTRUCTION /FIELD (3) Supervised experience in performing the functions and duties associated with curriculum and instructional leadership in the area of concentration. Each student will participate in activities related to curriculum development and instructional improvement. Examples of tasks include staff development, curriculum development, unit and program development, creating effective learning environments, technology integration and instructional improvement. Thirty hours per week. Prerequisite: Twenty-four (24) hours of core requirements and departmental approval.	3	3
ELCF 5960	FUNDAMENTALS OF EDUCATIONAL RESEARCH (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Principles and methods of educational research. Acquire skills in developing problems statements, formulating hypotheses, selecting populations/samples, collecting data, analyzing and interpreting results, use of technology to support research. Designed for teachers as well as administrative candidates. Individual projects will focus on students' needs and interests. Credit not given for both ELCF 5960/496 and ELCF 429 or 497. Prerequisite: Consent of the department.		
ELCF 5965	FOUNDATIONS OF RESEARCH FOR TRANSFORMATIONAL LEADERS (3) The study of fundamentals of qualitative and quantitative research designs with an emphasis on the selection of research topics, design of data collection procedures, analysis of data and reporting of findings. The course will culminate in the design of a research proposal for the master's thesis / project. (ISLLC 1, 3, 4, 6)	3	3

ELCF 5980	<p>ELEMENTARY AND SECONDARY SCHOOLADMINISTRATION AND SUPERVISION /FIELD (3)</p> <p>An examination of elementary and secondary schools with emphasis upon the role of the principal and his/her relationship with personnel; administrative behavior analyzed in terms of tasks and processes that aid in improving educational programs. School climate and quality learning environment and academic excel- excellence, staff development, curriculum development, finance, action research; opportunity to solve problems with simulated materials which includes an emphasis on program and personnel evaluation. Social and cultural factors and special education programs will be analyzed. Twenty clock hours of practicum experience in schools.</p> <p>Prerequisite: ELCF 5010/401, 5210/421, 5240/424.</p>	3	3
ELCF 5985	<p>LEADERSHIP IN CREATING A PEACEFUL AND PRODUCTIVE SCHOOL CLIMATE (3)</p> <p>Designed to provide research - based methods for building character and improving achievement in young people by teaching self-respect, self-discipline and responsibility. The course addresses some of the most challenging issues in teaching, discipline, and motivation. It provides a process for integrating strategies for dealing with these challenges into school curricula. This course will focus on: personal, diversity, social and legal ramifications associated with sexual harassment, bullying and cyber-intimidation. Students will gain a workable knowledge of the body of research that supports teaching character education across the curriculum. (ISLLC / IPSSL 1, 4, 5, 6)</p>	3	3
ELCF 5990	<p>INTRODUCTION TO NBPTS: National Board Certification I (3)</p> <p>Exploration and analysis of the National Board for Professional Teaching Standards (NBPTS). Five core propositions and standards, and the tenets of the NBPTS. Analysis of individual professional practice based on standards, and research highly effective teaching. Planning, implementation and modification of curriculum and instruction based on this research. Planning and developing a personal framework of curriculum, instruction and aligned assessment and goals to document accomplished teaching during the National Board Certification assessment cycle.</p> <p>Prerequisite: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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ELCF 5991	<p>FOUNDATIONS OF TEACHING & LEARNING: National Board Certification II (3)</p> <p>Developing knowledge and skills on student learning styles, knowledge of students, multiple pathways to instruction, learning environments, engaged learning methods, standard driven instruction, "Best Practices" in instruction, writing seminars, addressing diversity within the classroom, instructional resources, establishing family and community networks, setting instructional goals, classroom management, and contributions to the profession of teaching.</p> <p>Prerequisite: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>	3	3
ELCF 5992	<p>REFLECTIVE TEACHING PRACTICES: National Board Certification III (3)</p> <p>Developing knowledge and skills on designing and implementing authentic assessment, using assessment to drive instruction, the architecture of teaching, differentiated instruction, using video to analyze professional practices, assessment of student work and feedback, integrating technology across the curriculum, developmental stages, social development, developmentally appropriate instruction and addressing special needs of students.</p> <p>Prerequisite: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>	3	3
ELCF 5993	<p>DEVELOPING CONTENT KNOWLEDGE & PEDAGOGY: National Board Certification IV (3)</p> <p>Developing knowledge and skills on research methods, content driven research, application of content knowledge to curricular goals and instruction, teaching standards, reflective practice and writing, teacher leadership, and student advocacy.</p> <p>Prerequisite: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>	3	3
ELCF 5994	<p>NATIONAL BOARD CERTIFIED TEACHERS LEADERSHIP MENTORING I COURSE: National Board Certification V (3)</p> <p>Introduction to the study of effective strategies for mentoring NBPTS candidates, including the analysis of entries according to National Board rubrics, standards, and portfolio requirements; facilitation and design of learning-centered professional development experiences; cognitive coaching; nature and structure of teaching and learning; NBPTS in school-wide context; aligning professional development to school improvement plan learning goals through the National Board for Professional Teaching Standards.</p> <p>Prerequisite: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>	3	3
ELCF 5995	<p>NATIOANL BOARD CERTIFIED TEACHERS LEADERSHIP MENTORING II COURSE: National Board Certification VI (3)</p> <p>Advanced study of effective strategies for mentoring NBPTS candidates, including the</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>analysis of entries according to National Board rubrics, standards, and portfolio requirements; facilitation and design of learning-centered professional development experiences; cognitive coaching; nature and structure of teaching and learning; NBPTS in school-wide context; aligning professional development to school improvement plan learning goals through the National Board for Professional Teaching standards.</p> <p>Prerequisites: Admission to Chicago Public Schools' National Board Certification Support Program (Approval of NBRC Director).</p>		
ELCF 5996	<p>CRITICAL ISSUES IN URBAN EDUCATION (3)</p> <p>An examination of critical issues within urban education and its larger context (i.e. surrounding urban environment and society at large) and the interactions among them. A critical assessment of problems and challenges related to social, economic and political conditions including the racial achievement gap, inequities in school funding, social stratification and school segregation and recent urban reforms such as charters and school choice. An exploration of approaches to help school leaders address these issues and overcome obstacles to meet the needs of students in urban environments.</p> <p>Prerequisite(s): Consent of department.</p>	3	3
ELCF 5997	<p>POLICY STUDIES IN URBAN EDUCATION (3)</p> <p>Examines processes of policy formation and implementation and the ways in which politics shape these processes in educational institutions located in urban environments.</p>	3	3
ELCF 5998	<p>SOCIAL JUSTICE TEACHING IN URBAN EDUCATION (3)</p> <p>An introduction to the historical, sociology, philosophical and pedagogical foundations of social justice education in urban schools.</p>	3	3
ELCF 5999	<p>SPECIAL TOPICS IN EDUCATION (1-3)</p> <p>Educational problems that have a high degree of contemporary significance. Note: All graduate students are eligible to enroll in 400-level classes, except those designated as restricted to master's degree students or requiring departmental permission. Prior consultation with the department is recommended.</p> <p>Prerequisite: Consent of the department.</p>	1	1

Elementary Education (ELED)

Course	Course Description	Credit Hrs.	Contact Hrs.
ELED 3010	<p>FUNDAMENTALS FOR ELEMENTARY EDUCATION (4)</p> <p>An interrelated approach to the development and understanding of curriculum planning, library research and effective utilization of resources. Writing emphasis course.</p> <p>Prerequisite: PSYC 2020/206; ELCF 1520/152, 2000/200; ENG 1270/127, 1280/128; successful completion of the English placement examination.</p>	4	4
ELED 3092	<p>ILLINOIS ELEMENTARY EDUCATION TEACHER CERTIFICATION REVIEW (1)</p> <p>Review of elementary education theory and practice in preparation for the State Teacher Certification Examination. May not be counted for degree credit.</p> <p>Prerequisite: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.</p>	1	1
ELED 4010	<p>TEACHING WRITING IN THE PRIMARY GRADES (3)</p> <p>Exploration of literacy process in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing in the primary grades.</p> <p>Prerequisite: Successful completion of the English Qualifying Examination.</p>	3	3
ELED 4020	<p>TEACHING WRITING IN THE MIDDLE SCHOOLS (3)</p> <p>Exploration of literacy processes in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing to middle school students.</p> <p>Prerequisite: Successful completion of the English Qualifying Examination.</p>	3	3
ELED 4110	<p>METHODS OF TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL (4)</p> <p>Techniques, methods, and materials for teaching mathematics to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary mathematics class, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 4110 or ELED 4170.</p> <p>Prerequisite(s): Admission to the College of Education; MATH 1010/140, MATH 1020/141, MATH 1200/162, ELED 3010/201 or BIL 4001 or BIL 2000/200.</p>	3	4

ELED 4111	METHODS OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (4) Techniques, methods, and materials for teaching science to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary science class, maximum of two	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 4111 or ELED 4140. Prerequisite(s): Admission to the College of Education; completion of natural sciences requirement (9 hours); ELED 3010/201 or BIL 4001 or BIL 2000/200.		
ELED 4112	METHODS OF TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (4) Techniques, methods, and materials for teaching social science to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary social science class, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 4112 or ELED 4150. Prerequisite(s): Admission to the College of Education; ELED 3010/201 or BIL 4001 or BIL 2000/200.	3	4
ELED 4113	METHODS OF TEACHING THE FINE ARTS, HUMANITIES AND CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL (3) An integrated approach to teaching music, crafts, arts, rhythms and literature in the Elementary School. Multicultural orientation; lecture and laboratory. Credit will be given for only one of the following: ELED 4113 or ELED 4190. Prerequisite(s): Admission to the College of Education; ART 1100/101 or MUS 1134/134; ELED 3010 or BIL 4001 or BIL 2000/200.	3	4
ELED 4115	STUDENT TEACHING IN ELEMENTARY EDUCATION GRADES 1 THROUGH 6, SEMESTER 1 (3) Supervised hands-on experience in elementary classroom designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. One hundred (100) clock hours in the field. To be taken the long semester prior to student teaching. Prerequisite(s): Admission to the College of Education; ELED 4110, ELED 4111, ELED 4112 and READ 4114; consent of department.	3	3

ELED 4116	STUDENT TEACHING IN ELEMENTARY EDUCATION GRADES 1 THROUGH 6, SEMESTER II (6) Off campus placement in a primary classroom (1-3) for half the semester and an intermediate classroom (4-6) for half the semester. University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to six (6) credit hours may be taken with student teaching but may not include required professional education courses. Prerequisite(s): ELED 4115; completion of all required professional education courses; consent of department; passing score on the Illinois Content Area Test.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
ELED 4140	TEACHING SCIENCE IN THE ELEMENTARY SCHOOL /4/ FIELD (3) Techniques, methods, and materials for teaching science to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: 1 full-day, one day per week (science must be taught that day), for eight weeks in a classroom; Option B: fifteen clock hours in a science classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 214, ELED 4140/304, ELED 5140/304G or MIDS 4230/315, MIDS 5230/315G. Prerequisite: Admission to the College of Education; completion of natural sciences requirement (12 hours); ELED 3010/201 or BIL 2000/200.	3	4
ELED 4150	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL /4/ FIELD (3) Techniques, methods, and materials for teaching social studies concepts to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (social studies must be taught that day), for eight weeks in a classroom; Option B: fifteen clock hours in a social studies classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 215, ELED 4150/305 or MIDS 4240/325. Prerequisite: Admission to the College of Education; ELED 3010/201 or BIL 2000/200.	3	4

ELED 4170	TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL /4/ FIELD (3) Techniques, methods, and materials for teaching mathematics to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (mathematics must be taught that day), for eight weeks in a classroom; Option B: fifteen hours in a mathematics classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 207, ELED 4170/307 or MIDS 4220/310. Prerequisite: Admission to the College of Education; MATH 1010/140, 1020/141; ELED 3010/201 or BIL 2000/200.	3	4
ELED 4190	TEACHING THE FINE ARTS, HUMANITIES, AND CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL /4 (3) An integrated approach to teaching music, crafts, arts, rhythms and literature in the elementary school and middle school grades. Multicultural orientation; lecture and laboratory. Credit will not be given for both ELED 220 and ELED 4190/320. Prerequisite: Admission to the College of Education; ART 1100/101 or MUS 1134/134; ELED 3010/201 or BIL 2000/200.	3	4
ELED 4200	STUDENT TEACHING IN ELEMENTARY EDUCATION, SEMESTER I (3) Supervised hands-on experience in elementary classroom designed for students to apply	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. One hundred clock hours in the field. To be taken the long semester prior to student teaching. Prerequisites: Admission to the College of Education; ELED 4140/304, 4150/305, 4170/307, READ 4280/308; passing score on the Illinois Content Area Certification Test; consent of the department.		
ELED 4210	STUDENT TEACHING IN ELEMENTARY EDUCATION, SEMESTER II (6) Off-campus placement in a primary classroom (K-3) and an intermediate (4-6) or upper grade (7-8). University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to 6 credit hours may be taken with student teaching but may not include required professional education courses. Credit will not be given for both ELED 285 and ELED 4210/375. Prerequisites: ELED 4200/374; completion of all required professional education courses; consent of the department.	6	6

ELED 4320	SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3) Educational problems that have a high degree of contemporary significance in the field of elementary education. May be repeated to a maximum of three credit hours. Prerequisite: Consent of the department.	1	1
ELED 4500	FIELD BASED SCIENCE II (3) Science content and strategies for teaching science at the elementary school level; course and field work take place off campus at an elementary school. Prerequisite: Admission to the College of Education: completion of natural science requirements (12 credit hours); ELED 3010/201 or BIL 2000/200; ELED 4140/304; and consent of the department.	3	4
ELED 5010	TEACHING WRITING IN THE PRIMARY GRADES (3) Exploration of literacy processes in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing in the primary grades. Prerequisite: Successful completion of the English Qualifying Examination.	3	3
ELED 5020	TEACHING WRITING IN THE MIDDLE SCHOOLS (3) Exploration of literacy process in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing to middle school students.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Successful completion of the English Qualifying Examination.		
ELED 5110	METHODS OF TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL (3) Techniques, methods and materials for teaching mathematics to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary mathematics class, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 5110 or ELED 5170. Prerequisite(s): Admission to the College of Education; MATH 1010/140, MATH 1020/141 and MATH 1200/162; ELED 3010/201 or BIL 5001.	3	4

ELED 5111	METHODS OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Techniques, methods and materials for teaching science to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary science class, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 5111 or ELED 5140. Prerequisite(s): Admission to the College of Education; completion of natural sciences requirement (9 hours); ELED 3010 or BIL 5001,	3	4
ELED 5112	METHODS OF TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Techniques, methods and materials for teaching social science to diverse learners in the Elementary School. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary social science class, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 5112 or ELED 5150. Prerequisite(s): Admissions to the College of Education; ELED 3010 or BIL 5001.	3	4
ELED 5113	METHODS OF TEACHING THE FINE ARTS HUMANITIES AND CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL (3) An integrated approach to teaching music, crafts, arts, rhythms and literature in the Elementary School. Multicultural orientation; lecture and laboratory. Credit will be given for only one of the following: ELED 5113 or ELED 5190. Prerequisite(s): Admission to the College of Education; ART 1100 or MUS 1134; ELED 3010 or BIL 5001.	3	4
ELED 5115	STUDENT TEACHING IN ELEMENTARY EDUCATION GRADES ONE (1) THROUGH SIX (6) SEMESTER I (3) Supervised hands-on experience in elementary classrooms designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	classroom management, school policies and rules, teaching strategies and technology. One hundred (100) clock hours in the field. To be taken the long semester prior to student teaching. Credit will be given for only one of the following: ELED 5210 or ELED 5115. Prerequisite(s): Admissions to the College of Education; ELED 5110, ELED 5111, ELED 5112 and READ 5114; consent of department.		

ELED 5116	<p>STUDENT TEACHING IN ELEMENTARY EDUCATION GRADES ONE (1) THROUGH SIX (6) SEMESTER II (3-6)</p> <p>Off campus placement in a primary classroom (1-3) for half the semester and an intermediate classroom (4-6) for half the semester. University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to six (6) credit hours may be taken with student teaching but may not include required professional education courses.</p> <p>Prerequisite(s): ELED 5115; completion of all required professional education courses; consent of department; passing score on the Illinois Content Area test.</p>	3	3
ELED 5140	<p>TEACHING SCIENCE IN THE ELEMENTARY SCHOOL /4/ FIELD (3)</p> <p>Techniques, methods, and materials for teaching science to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: 1 full-day, one day per week (science must be taught that day), for eight weeks in a classroom; Option B: fifteen clock hours in a science classroom, maximum of two hours per visit, and maximum of two visits per week. Credit will be given for only one of the following: ELED 214, ELED 4140/304, 304G or MIDS 4230/315, MIDS 5230/315G.</p> <p>Prerequisite: Admission to the College of Education; completion of natural sciences requirement ELED 3010/201 or BIL 2000/200.</p>	3	4
ELED 5150	<p>TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL /4/ FIELD (3)</p> <p>Techniques, methods, and materials for teaching social studies concepts to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (social studies must be taught that day), for eight weeks in a classroom; Option B: fifteen clock hours in a social studies classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 215, ELED 4150/305, ELED 5150/305G, or MIDS 4240/325, MIDS 5240/325G.</p> <p>Prerequisite: Admission to the College of Education; ELED 3010/201 or BIL 2000/200.</p>	3	4
ELED 5170	<p>TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL /4/ FIELD (3)</p> <p>Techniques, methods, and materials for teaching mathematics to diverse learners in the elementary and middle school. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (mathematics must be taught that</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>day), for eight weeks in a classroom; Option B: fifteen hours in a mathematics classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 207, ELED 4170/307, ELED 5170/307G, or MIDS 4220/310, MIDS 5220/310G.</p> <p>Prerequisite: Admission to the College of Education; MATH 1010/140, 1020/141; ELED 3010/201 or BIL 2000/200.</p>		
ELED 5190	<p>TEACHING THE FINE ARTS HUMANITIES AND CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL LECTURE AND LABORATORY /4 (3)</p> <p>An integrated approach to teaching music, crafts, arts, rhythms and literature in the elementary school and middle school grades. Multicultural orientation; lecture and laboratory. Credit will be given for only one of the following: ELED 220, ELED 4190/5190/320 or MIDS 4160/320. Prerequisite: ELED 3010/201 or BIL 2000/200; ART 1100/101 or MUS 1134/134. Admission to the College of Education.</p>	3	4
ELED 5200	<p>STUDENT TEACHING IN ELEMENTARY EDUCATION, SEMESTER I (3)</p> <p>Supervised hands-on experience in elementary classroom designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes classroom management, school policies and rules, teaching strategies and technology. One hundred clock hours in the field. To be taken the long semester prior to student teaching. Credit will be given for only one of the following: ELED 5200/374 or MIDS 4200/5200/374.</p> <p>Prerequisites: Admission to the College of Education; ELED 5140/304G, 5150/305G, 5170/307G, READ 5280/308G; passing score on the Illinois Content Area Certification Test; consent of the department.</p>	3	3
ELED 5210	<p>STUDENT TEACHING IN ELEMENTARY EDUCATION, SEMESTER II (6)</p> <p>Off-campus placement in a primary classroom (K-3) and an intermediate (4-6) or upper grade (7-8). University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to 6 credit hours may be taken with student teaching but may not include required professional education courses. Credit will be given for only one of the following: ELED 285, ELED 5210/375G or MIDS 5210/375G.</p> <p>Prerequisites: ELED 5200/374G; completion of all required professional education courses; consent of the department.</p>	6	6
ELED 5230	<p>SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)</p> <p>Educational problems that have a high degree of contemporary significance in the field of elementary education.</p> <p>Prerequisite: Consent of the department.</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
ELED 5300	<p>TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL FOR EXPERIENCED TEACHERS (3)</p> <p>Teaching mathematics in the elementary grades. Basic methods and materials for normal and exceptional children. Includes laboratory experiences at either the primary or intermediate-upper grade levels. For experienced teachers. Three semester hours of credit plus fifteen hours of tutoring.</p> <p>Prerequisite: 12 credit hours in college level biological and physical science; admission to the College of Education; admission to the graduate degree sequence in Elementary Education; must have written approval of the EDEE graduate advisor.</p>	3	3
ELED 5310	<p>TEACHING SCIENCE IN THE ELEMENTARY SCHOOL FOR EXPERIENCED TEACHERS (3)</p> <p>Techniques, methods, and materials for teaching science in the elementary school for experienced teachers. Three semester hours of credit plus laboratory.</p> <p>Prerequisite: 12 credit hours in college level biological and physical science; admission to the College of Education; admission to the graduate degree sequence in Elementary Education; must have written approval of the ELED graduate advisor.</p>	3	3
ELED 5320	<p>IMPROVING THE TEACHING OF ELEMENTARY MATHEMATICS (3)</p> <p>Review of research on current teaching practices in elementary mathematics. Topics such as the importance of mathematics in contemporary society, the role of calculators and computers in mathematics instruction, and individualization of instruction will be emphasized. (Not to be taken for teacher certification purposes.)</p> <p>Prerequisite: Bachelor's degree, experience in teaching elementary school children and consent of the department.</p>	3	3
ELED 5330	<p>IMPROVING THE TEACHING OF ELEMENTARY SCIENCE (3)</p> <p>Review of research on current teaching practices in elementary science. Topics such as the role of science in a technological society, ecology, energy conservation, and the natural resources crisis will be emphasized. (Not to be taken for teacher certification purposes.)</p> <p>Prerequisite: Bachelor's degree, experience in teaching elementary school children and consent of the department.</p>	3	3
ELED 5340	<p>IMPROVING THE TEACHING OF ELEMENTARY SOCIAL STUDIES (3)</p> <p>Review of research on current teaching practices in elementary social studies. Topics such as an environmental studies, multicultural and global education, values clarification, and career education will be emphasized. (Not to be taken for teacher certification purposes.)</p> <p>Prerequisite: Bachelor's degree, experience in teaching elementary school children and consent of the department.</p>	3	3

ELED 5350	IMPROVING THE TEACHING OF WRITING IN THE ELEMENTARY CLASSROOM (3)	3	3
Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Review of research and theory on composition, and exploration of different strategies to teach writing in the elementary schools. (Not to be taken for teacher certification credit).</p> <p>Prerequisite: Experience in teaching elementary school children and C.O.D.</p>		
ELED 5360	CLASSROOM MANAGEMENT PRINCIPLES (3)	3	3
	<p>Identification of the dimensions of management and practice that combine to make a teacher an effective manager and disciplinarian.</p> <p>Prerequisite: Experience in teaching elementary school children and consent of the department.</p>		
ELED 5520	ELEMENTARY SCHOOL CURRICULUM /FIELD/5 (3)	3	3
	<p>Selection and organization of learning experiences at the elementary school level. The teacher's role in implementing the curriculum. Topics such as contemporary types of curriculum organization, factors affecting the curriculum, pertinent research, and the actual development to portions of a curriculum will be emphasized. Five clock hours of observation per term.</p> <p>Prerequisite: Restricted to master's degree candidates.</p>		
ELED 5521	RESEARCH ON THE MIDDLE SCHOOL (3)	3	3
	<p>The study of research methods and topics pertaining to middle schools. Development of a research proposal up to the Internal Review Board (IRB) process on a topic pertaining to middle school education.</p> <p>Prerequisite: Restricted to master's degree candidates or consent of the department.</p>		

English (ENG)

Course	Course Description	Credit Hrs.	Contact Hrs.
ENG 0990	WRITING SKILLS REVIEW (3)	3	3
	<p>Practice in commonly used genres of writing, letters, memos, essays, and reports, and review of grammar and punctuation for academic and professional writing. Emphasis will be on the development of revision and editing skills in a workshop environment. The grade for the course will be P (passing) or F (not passing). This course does not carry college credit, nor does it count towards the fulfillment of composition credits required for graduation.</p>		

ENG 1000	FRESHMAN SEMINAR: ENGLISH (1) Introduction for incoming freshmen and transfer students to collegiate life. Provides a basic understanding of university, college, and departmental policies, a review of the English curriculum and graduation requirements, an introduction to the learning tools and resources available on campus, and tips for effective time and money management, stress reduction, wellness, and meeting course and faculty expectations. Survey of career opportunities related to the field. For English majors with Freshman standing. Prerequisites: English major with Freshman standing.	1	1
ENG 1092	ILLINOIS ENGLISH TEACHER CERTIFICATION REVIEW (1) Intensive analyses of contemporary issues in English education. Practice for the state certification examination. Credit does not count toward graduation requirements. Credit cannot be received for both ENG 091 and ENG 0920/092. Prerequisite: ENG 4347/347, ENG 4360/360, ENG 3630/363, or consent of the department.	1	1
ENG 1220	WRITING ENGLISH AS A SECOND LANGUAGE /6 (3) An alternative to ENG 1230/123, 1240/124, 1270/127 and 1280/128, designed for nonnative speakers of English. Practice in sentence patterns, writing skills, grammar and usage. To receive a passing grade in this course, the student must successfully complete the appropriate exit examination. May be taken more than once for credit as needed by nonnative speakers of English to satisfy composition requirements. Prerequisite: Consent of the department.	3	6
ENG 1230	WRITERS' WORKSHOP I LECTURE AND LABORATORY /6 (3) An intensive study of the basic principles of expository writing for all students (including those students wishing to transfer three to four hours of composition credit) who do not meet the minimum standards for placement into Composition I. Practice in exposition, reasoning skills, paragraph and essay development with focus on sentence construction, usage, punctuation, and mechanics. The writing lab for individualized instruction is mandatory. To receive a passing grade in the course, the student must successfully complete an exit examination. Successful completion of English 123 satisfies the Composition I requirement. Credit not given for both ENG 1230/123 and 1270/127.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Additional course fee. Prerequisite: Placement by prior examination.		

ENG 1240	<p>WRITERS' WORKSHOP II LECTURE AND LABORATORY / (3)</p> <p>An intensive study of advanced techniques of exposition with emphasis on argumentation, reasoning, research and documentation. Additional practice in paragraph and essay development, sentence construction, usage, punctuation, and mechanics. Lab fee. The writing lab for individualized instruction is mandatory. To receive a passing grade in the course, the student must successfully complete the course exit examination (the university English Qualifying Examination). Successful completion of English 1240 satisfies the Composition II requirement. Credit given only for ENG 1240 or ENG 1280, not both courses.</p> <p>Prerequisite: For students who did not pass the English 1230/1270 exit exam (EQE) but completed all coursework with a C or better or placement by prior examination; transfer students with 3 or 4 credit hours in composition.</p>	3	6
ENG 1260	<p>INTRODUCTION TO LITERATURE (3)</p> <p>Reading, analysis, and discussion of selected prose, poetry and drama. IAI: H3 905 H3 900</p>	3	3
ENG 1270	<p>COMPOSITION I (3)</p> <p>Basic principles of exposition for those students who meet the minimum standards of the Composition I Placement Examination upon matriculation. Practice in reasoning skills, paragraph and essay development, usage, punctuation, and mechanics. To receive a passing grade in the course, the student must successfully complete the Composition I exit examination. Credit given only for ENG 127 or 123, not both courses. IAI:C1 900</p> <p>Prerequisite: Placement by prior examination.</p>	3	3
ENG 1280	<p>COMPOSITION II (3)</p> <p>Advanced techniques of exposition with emphasis on argumentation and reasoning. Additional practice in paragraph and essay development, sentence construction, usage, punctuation, and mechanics. To receive a passing grade in the course, the student must successfully complete the Composition II examination (English Qualifying Examination). Credit given only for ENG 128 or 124, not both courses. IAI: C1 901R</p> <p>Prerequisite: ENG 1230/123 or 1270/127, or successful completion of entrance examination for ENG 1280/128 by transfer students with 3 or 4 credit hours in composition.</p>	3	3
ENG 1360	<p>ESSENTIALS OF ENGLISH GRAMMAR LECTURE AND LABORATORY /4 (3)</p> <p>A practical study of word forms and functions, sentence structure, and rules.</p>	3	4
ENG 2010	<p>INTRODUCTION TO JOURNALISM (3)</p> <p>Introduction to the reading, internal organization, production, and writing of news</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>publications. Enrollment in or successful completion of this course (with a grade of C or better) would be required for those who wish to write for the student newspaper during any given semester.</p> <p>Prerequisites: Completion of Composition I and II (or equivalent) with a grade of C or better, Grammar Competency Exam or ENG 1360; ENG 2100 with a grade of C or better.</p>		
ENG 2011	<p>ORAL LANGUAGE AND LITERACY: MULTICULTURAL PERSPECTIVES (3)</p> <p>Study and practice of Standard American English, code switching, and rhetorical and dialectal theory with a heavy emphasis on oral language practice.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>	3	3
ENG 2020	<p>FEATURE WRITING (3)</p> <p>The writing of feature stories and articles.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>	3	3
ENG 2050	<p>LEGAL WRITING (3)</p> <p>The course will develop students' ability to do a variety of legal writing and evaluation, with emphasis on legal analysis and writing in the context of legal disputes and legal decisions.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>	3	3
ENG 2060	<p>WRITING FOR ADVERTISING (3)</p> <p>Strategies involved in planning, researching, creating and presenting copy for advertising.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>	3	3
ENG 2090	<p>INTRODUCTION TO TECHNICAL WRITING (3)</p> <p>Study of terminology, analysis of technical documents, and practice in formatting and writing technical material.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>	3	3

ENG 2100	WRITING AND EDITING NONFICTION (3) Practical approaches to writing and editing nonfiction. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	or better and ENG 1360/136 with a grade of C or better.		
ENG 2120	TECHNICAL AND SCIENTIFIC WRITING (3) Study of the rhetorical modes and specific forms of technical and scientific writing with practice in those modes and forms. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 2150	PROSE FICTION (3) Study of selected short stories and novels. (Enrichment core course.) IAI: H3 901	3	3
ENG 2160	SURVEY OF AMERICAN LITERATURE I (3) Study of authors, themes, and trends in American literature to 1865. IAI: H3 914	3	3
ENG 2190	SURVEY OF AMERICAN LITERATURE II (3) Study of authors, themes, and trends in American Literature from 1866 to present.	3	3
ENG 2210	INTRODUCTION TO AFRICAN LITERATURE (3) Study of selected masterpieces in African literature.	3	3
ENG 2260	ELEMENTS OF LITERARY STUDY AND RESEARCH WRITING (3) Critical analysis of selected works in the major literary genres, exposure to theories of literary criticism, and introduction to bibliographic methods for writing the literary research paper. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3

ENG 2280	CRITICAL STRATEGIES FOR WRITING AND RESEARCH (3) Practice in critical thinking and writing, based upon studies of writing (especially contemporary writing) in fields across academic disciplines. Introduction to bibliographic methods and preparation of the research paper. (Writing emphasis course.) Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 2330	READINGS IN BRITISH LITERATURE I (3) Survey of major British writers from the beginning to 1800.	3	3
ENG 2340	READINGS IN BRITISH LITERATURE II (3) Survey of major British writers from 1800 to the present. IAI: H3 93	3	3
ENG 2370	DESKTOP PUBLISHING FOR BEGINNERS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Practical experience in page layout and design for newspapers, magazines, newsletters, books, promotional flyers, and/or online publications. Basic principles and theories of graphic design, and how to insert and/or manipulate photos, clip art, ornamentation, and other visual materials derived from the Internet and other sources. Page design software (such as Microsoft Publishers, InDesign, PageMaker, and QuarkXPress), as well as Photoshop image-editing software, will be taught and used for class projects and layout exercises. Additional course fee.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.</p>		
ENG 2410	THIRD WORLD LITERATURE (3) Survey of the literatures of Africa, Asia, and Latin American countries and sub regions (including Mexico, Central America, and South America). Study of major forms, trends, and authors, or cultures. (Enrichment core course.)	3	3
ENG 2440	POPULAR LITERATURE (3) Studies in various aspects of popular culture as found in such forms as science fiction, crime and detective fiction, the western, spy fiction, and literature of the supernatural. May be taken twice for credit if the topics are different.	3	3

ENG 2451	INDEPENDENT STUDY IN ENGLISH (3) Independent, concentrated study in special topics, staff directed. May be taken twice for credit if the topics are different. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 2670	TOPICS IN ENGLISH (3) Study of a selected subject in English. May be taken twice for credit if the topics are different.	3	3
ENG 2790	BUSINESS WRITING (3) The study and writing of clear, coherent, effective business communication. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 2800	WRITING RESEARCH PAPERS (3) Practice in researching nonliterary topics and in writing the research paper. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ENG 2910	AFRICAN AMERICAN LITERATURE (3) Survey of African American works from the 1700s to 1939. Emphasis on poetry, fiction, and drama. Satisfies the elective course requirements for the African American Studies major or minor.	3	3
ENG 2920	WRITING THE SHORT STORY (3) Practice in developing structure, content, and viewpoint. Examples of work may be required at least two weeks prior to registration. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 2930	THE WRITING OF POETRY (3) Practice in developing structure, content, and style in poetry. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3

ENG 2940	AFRICAN AMERICAN LITERATURE II (3) Survey of African American works from 1940 to the present. Emphasis on poetry, fiction, and drama.	3	3
ENG 3030	PRACTICUM IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES /FIELD (3) Methods of teaching English to speakers of other languages, with a focus on field-based practice in community organizations. Forty clock hours of field experience. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.	3	3
ENG 3350	DEVELOPMENT OF MODERN ENGLISH (3) History of the English language, its sounds, inflections, syntax, and vocabulary.	3	3
ENG 3630	METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS (GRADES 6-12) /FIELD (3) Methods of teaching English in high school grades 9-12 and middle school grades 6-8. Thirty-five hours of internship required. Credit not given for ENG 249 and 3630/363. Prerequisite: Admission to the College of Education; ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306), ENG 2100/210, ENG 2260/226, and consent of the department. To be taken concurrently with ENG 0920/092 and CAS 2630/363.	3	3
ENG 3750	STUDENT TEACHING: SECONDARY LEVEL ENGLISH /FIELD (6) Off-campus placement in secondary schools in two or more grade levels. University and	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit will not be given for both 270 and 3750/375. This is the capstone course that satisfies the senior thesis requirement.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; 2.5 cumulative grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>		

ENG 3780	<p>METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE/4/FIELD (3)</p> <p>Techniques, methods and materials for teaching English as a second language. Development of a unit and lesson plans which will include teacher-made materials to be used with limited-English proficient students. Fifteen hours of supervised tutoring.</p> <p>Prerequisites: BIL 2000/200, ENG 4338/338, and ENG 4366/366 or consent of the department; admission to the College of Education.</p>	3	3
ENG 3870	<p>ADVANCED RESEARCH METHODS AND PROGRAM OUTCOMES ASSESSMENT (3)</p> <p>Study of various bibliographic methods and documentation formats for preparing a research paper in language, technical writing, and literature. Student demonstration of competencies in literature or technical writing.</p> <p>Prerequisite: Successful completion of the English Qualifying Examination and ENG 2160/216, 2190/219, 2260/226, 2280/228, 2330/233, 2340/234, 2910/291; 2120/212, 2100/210; consent of the department.</p>	3	3
ENG 3920	<p>PTW WRITING PRACTICUM (3)</p> <p>Preparatory course for the 395 Internship in Writing experience. Qualified Professional and Technical Writing (PTW) majors will receive valuable training in writing, proofreading, editing, publishing, and/or public relations as they work on appropriate projects in selected offices and departments on campus.</p> <p>Prerequisite: Consent of department</p>	3	3
ENG 4120	<p>ADVANCED EDITING (3)</p> <p>Advanced study and practice of the skills of writing and editing nonfiction. Research, writing and refinement of various types of text (such as journalism articles and political speeches), combined with the use of universal proofreader's marks to edit texts for accuracy, completeness, clarity, coherence, and cohesion. Consideration of the legal and ethical requirements and responsibilities of editors.</p> <p>Prerequisites: English 2100/210 (grade of B or higher).</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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ENG 4306	<p>ADOLESCENT LITERATURE (3)</p> <p>Survey of the literature appropriate for adolescent readers, including literature written by women, African Americans, and various ethnic and minority groups. Emphasis on critical analysis and evaluation of works useful for teaching adolescent literature in secondary schools.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.</p>	3	3
ENG 4311	<p>STUDIES IN SHAKESPEARE: INTENSIVE STUDY OF SELECTED PLAYS (3)</p> <p>Intensive study of Shakespeare's plays selected to represent the five kinds into which critics have traditionally classified the dramatic works: tragedies, comedies, histories, problem plays, and late romances. Attention will be given to structure, characterization, setting, use of language, and dramaturgy. Attendance is required at a Chicago Shakespeare Theatre performance of one of the plays studied in class.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, Eng 2100/210 and Eng 2260/226, or consent of department.</p>	3	3
ENG 4314	<p>VICTORIAN LITERATURE (3)</p> <p>Representative works from the Victorian period (1830-1901), including poets such and Tennyson, R. Browning, Arnold, E.B. Browning, the Pre-Raphaelites, Swinburne, Wilde, and W.S. Gilbert as well as prose writers such as Carlyle, Arnold, Darwin, Pater, Dickens, Trollope, and Thackeray.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, Eng 2100/210 and Eng 2260/226, or consent of department.</p>	3	3
ENG 4315	<p>CHAUCER (3)</p> <p>Selections from The Canterbury Tales and minor poems.</p>	3	3
ENG 4316	<p>WORLD MASTERPIECES (3)</p> <p>Study of major forms, works, authors and characteristics of classic literatures in Greece, Rome, Africa, the Middle East, and of Continental European literatures.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 4321	<p>BLACK WOMEN WRITERS (3)</p> <p>Seminal pieces of Black women's writing in all genres. Exploration of definitions of Black women's writing by examining works of authors such as Jacobs, Harper, Hurston, Walker, bell hooks, Morrison, McMillan, Sanchez, and Jordan.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	2260/226 or consent of the department.		
ENG 4322	<p>BLACK AMERICAN POETRY (3)</p> <p>Black poetry in America from Wheatley to the present; emphasis on the twentieth century. (This course satisfies the elective course requirements for the African American Studies major or minor.)</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 4323	<p>WRIGHT, ELLISON AND BALDWIN (3)</p> <p>The study of three important Black writers of fiction and nonfiction. Focus on their portrayal of Blacks and on their conception of the role of Blacks in America. (This course satisfies the elective course requirements for the African American Studies major or minor.)</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 4324	<p>GWENDOLYN BROOKS SEMINAR (3)</p> <p>A study of selections from Brooks's early poetry (1945-1960), her novel <i>Maud Martha</i>, her children's books of poetry, and her post 1960s works.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 4326	<p>ENGLISH ROMANTIC LITERATURE (3)</p> <p>Representative works from the Romantic period (1790-1830), including the philosophical background and historical events (e.g., the Industrial Revolution, the French Revolution, and the Napoleonic wars) which both conditioned and were conditioned by the formal features of literary texts. Focus is on the poetry of Barbauld, Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats, as well as on the prose of Lamb, Hazlitt, DeQuincey, Mary Shelley, and Wollstonecraft.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 4327	<p>METHODS AND MATERIALS OF LITERARY RESEARCH (3)</p> <p>Introduction to bibliographic methods and preparation of the literary research paper.</p>	3	3
ENG 4329	<p>STUDIES IN THE NOVEL (3)</p> <p>The novel as a literary type.</p>	3	3

ENG 4331	LITERARY CRITICISM (3)	3	3
Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Critical approaches to the study of literature from the traditional to the poststructural.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>		
ENG 4332	BLACK AMERICAN FICTION (3)	3	3
	<p>Selected masterpieces of Black American prose fiction. (This course satisfies the elective course requirements for the African American Studies major or minor.)</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, Eng 2100/210 and Eng 2260/226 or consent of the department.</p>		
ENG 4334	THE IMAGE OF BLACKS IN AMERICAN PROSE FICTION (3)	3	3
	<p>The portrayal of Black characters in American prose fiction by writers such as Douglass, Stowe, Chesnutt, Twain, Hurston, Wright, Faulkner, Petry, Marshall and Gaines.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>		
ENG 4336	AMERICAN ENGLISH GRAMMAR (3)	3	3
	<p>Traditional grammar and grammar based on recently developed descriptive techniques.</p>		
ENG 4337	CLASSICAL RHETORIC (3)	3	3
	<p>Study of the history and fundamental principles of classical rhetoric and its relationship to contemporary persuasive oratory. Analysis of the structure and impact of current political and religious rhetoric through examination of speeches, sermons, essays, journalistic writing, etc. Practice in the use of rhetorical strategies to produce effective discourse.</p> <p>Prerequisite: Successful completion of the English Qualifying Examination, ENG 2100/210 and ENG 2260/226.</p>		
ENG 4338	LANGUAGE (3)	3	3
	<p>Language structure and use. Phonology, morphology, syntax, semantics, pragmatics, typology, acquisition, historical development, speech acts, writing, dialects, registers, standards, and attitudes.</p>		
ENG 4339	CURRENT ENGLISH USAGE (3)	3	3
	<p>Study of variations in American English usage.</p>		

ENG 4341	AMERICAN LITERATURE SINCE 1918 (3) Selections from the works of authors, including Ellison, Faulkner, Frost, Hemingway, Morrison, O'Connor, Petry, Williams and Wright.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2600/226 or consent of the department.		
ENG 4342	BRITISH LITERATURE SINCE 1900 (3) An introduction to the birth of twentieth-century British literature, with attention to its social and cultural history, as well as its philosophical and cultural foundations. Texts are selected from the works of writers such as Hardy, Yeats, Forster, Woolf, Joyce, Lawrence, Eliot, Pinter, Geoffrey Hill, Heaney, Stoppard, and Rushdie. Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226, or consent of department.	3	3
ENG 4345	AMERICAN LITERATURE 1820 - 1865 (3) Selection from the works of Emerson, Hawthorne, Poe, Thoreau, Melville, Whitman, and others. Prerequisite: Successful completion of the English qualifying examination, ENG 2100/210 and ENG 2260/226, or consent of the department.	3	3
ENG 4346	American Literature, 1865 - 1918 Selections from the works of Twain, Howells, James, Crane, Emily Dickinson, Chesnut, Chopin, Wharton, Dreiser, Cather, and other American writers. Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.	3	3
ENG 4347	TEACHING OF COMPOSITION SECONDARY SCHOOLS (3) Approaches to teaching grammar, mechanics, usage, style, and organization in narrative, descriptive, expository and argumentative writing. Prerequisites: Admission to the College of Education. ELCF 4500/353 and Read 4100/306 (or concurrent enrollment in ELCF 4500/353 and Read 4100/306), and consent of the department.	3	3

ENG 4349	THE ENGLISH NOVEL (3) English novels from Defoe to the present. Prerequisites: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department	3	3
ENG 4350	RESTORATION AND EARLY EIGHTEENTH-CENTURY BRITISH LITERATURE (3) Selected works of Restoration and Augustan British literature (1660-1743) by authors such as Dryden, Butler, Bunyan, Rochester, Wycherley, Behn, prior, Swift Addison, Steele Thomson, Pope, Gray, and Hogarth.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Successful completion of English Qualifying Exam, ENG 2100/210 and ENG 2260/226, or consent of department.		
ENG 4351	LATER EIGHTEENTH-CENTURY BRITISH LITERATURE (3) Selected works of later eighteenth-century British literature (1743-1798) by authors such as Collins, Gray, Richardson, Fielding, Joseph Warton, Thomas Warton, Johnson, Boswell, Goldsmith, Crabbe and Cowper. Prerequisites: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226, or consent of department.	3	3
ENG 4356	THE EXPERIENCE OF FILM (3) Survey of major films both recent and classic. Discussion of techniques and themes, with screenings of representative works in various genres. Showings and discussion.	3	3
ENG 4357	THE ENGLISH RENAISSANCE (3) Representative works written between 1485 and 1603, including poets such as Wyatt, Surrey, Spenser, Raleigh and Drayton as well as prose writers such as Machiavelli, Calvin, Hooker, Fox, Cranmer; also, one of Marlowe's dramas. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.	3	3

ENG 4358	SEVENTEENTH CENTURY BRITISH LITERATURE (3) Significant works of the seventeenth century, exclusive of those "neoclassical" authors identified with the Restoration of monarchy in 1660 and on into the eighteenth century; emphasis is, therefore, on poets such as Jonson, Donne, Herrick, Herbert, Crashaw, Marvell, Lovelace, Carew, Suckling, Vaughan, Waller, Traherne and Milton, as well as on such political, religious, and scientific prose writers as Hobbes, Burton, Winstanley, Browne and Bacon; also on Jonson's Volpone and Webster's The Duchess of Malfi. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.	3	3
ENG 4359	LITERATURE OF THE 18th CENTURY (3) Selections from Dryden, Pepys, Congreve, Defoe, Swift, Pope, Fielding, Richardson, Johnson, and others. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.	3	3
ENG 4360	TEACHING LITERATURE IN SECONDARY SCHOOLS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Approaches to teaching literature through reading, writing, and non-print media. Stresses practical development of teaching materials. Prerequisite: Admission to the College of Education.		
ENG 4361	LANGUAGE AND CULTURE (3) Regional and social variations in American English.	3	3
ENG 4366	TEACHING ENGLISH AS A SECOND LANGUAGE (3) Theories of second language learning and acquisition. Emphasis on the works of the theorists such as Krashen and Cummins. Sociolinguistic and sociocultural issues concerning second language explored. Prerequisite: ENG 4338/338 or consent of the department.	3	3
ENG 4367	SPECIAL TOPICS IN ENGLISH (3) Intensive study of a selected subject. May be taken twice for credit if the topics are different.	3	3

ENG 4368	WORKSHOP IN ENGLISH (1-3) Special study of a selected subject. May be taken twice for credit if the topics are different. Prerequisite: Major in English or consent of the department.	1	1
ENG 4370	THE AMERICAN ETHNIC EXPERIENCE IN LITERATURE (3) Comparative study of ethnic cultures in America through an analysis of their fiction, poetry and drama. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260.	3	3
ENG 4377	TEACHING WRITING IN A MULTICULTURAL SETTING (3) Techniques related to the problems of teaching writing in a multiethnic classroom.	3	3
ENG 4379	WORKSHOP IN PUBLISHING (3) Study of book publishing process with emphases on concepts such as editing, design, production, marketing, sales, and the law. Methods of publishing other materials such as articles, poetry, and short stories. Exploration of career opportunities in publishing. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better and consent of department.	3	3
ENG 4380	SEMINAR IN CREATIVE NON-FICTION (3) Intensive study of a selected body of creative non-fiction. Individual research projects.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.		
ENG 4381	SEMINAR IN FICTION (3) Intensive study of a selected body of fiction. Individual research projects. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3

ENG 4382	THE HARLEM RENAISSANCE (3) The study of selected literary works of the Harlem Renaissance spanning all genres. Exploration of the period, writers, and their works. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260 or consent of department.	3	3
ENG 4383	SEMINAR IN POETRY (3) Intensive study of a representative body of poetry. Individual research projects. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better.	3	3
ENG 4386	MORRISON, WALKER, HURSTON (3) Careful examination of three major Black women writers: Toni Morrison, Alice Walker, Zora Neale Hurston. Exploration of their lives, writing, and the literary criticism of their works. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260 or consent of department.	3	3
ENG 4390	WOMEN'S VOICES (3) Literature by women: poetic, fictional, and intellectual discourse focusing on gender and social issues. Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better; ENG 2100 and ENG 2260 or consent of department.	3	3
ENG 4395	INTERNSHIP IN WRITING (3-12) For majors only. Paid and unpaid writing internships in the community. May be repeated for up to a maximum of twelve credit hours. Prerequisite: Junior or Senior status, ENG 2100/210, ENG 2280/228, ENG 2790/279, ENG	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	4379/379, and the completion of one semester of residency at Chicago State University.		

ENG 4400	<p>ADVANCED STUDIES IN ORAL LANGUAGE AND LITERACY: MULTICULTURAL PERSPECTIVES (3)</p> <p>Study of concepts and issues related to literacy, language diversity and sociolinguistics with a heavy emphasis on oral language practice of Standard American English.</p> <p>Prerequisite(s): Successful completion of the CSU English Qualifying Exam; ENG 1360/136, ENG 2011, ENG 2100/210, ENG 2260/226 OR ENG 2800/280 and ENG 4338/338.</p>	3	3
ENG 4449	<p>POLITICS OF LANGUAGE (3)</p> <p>The role and importance of language in the decision-making process; political, sociocultural, educational, psychological and economic implications. Topics to be covered include language and power, multilingualism, language and the curriculum, language and gender, language planning, language and nation building, and language and culture.</p> <p>Prerequisites: Completion of English Composition I and II (or equivalent) with a grade of C or better and ENG 1360.</p>	3	3
ENG 4451	<p>INDEPENDENT STUDY IN ENGLISH (3)</p> <p>Under the supervision of a faculty member, undergraduate students (particularly juniors and seniors) will have the opportunity to conduct research projects independently.</p> <p>Prerequisites: ENG 2120/210 or ENG 2260/226.</p>	3	3
ENG 5120	<p>ADVANCED EDITING (3)</p> <p>Advanced study and practice of the skills of writing and editing nonfiction. Research, writing and refinement of various types of text (such as journalism articles and political speeches), combined with the use of universal proofreader's marks to edit texts for accuracy, completeness, clarity, coherence, and cohesion. Consideration of the legal and ethical requirements and responsibilities of editors.</p> <p>Prerequisites: English Graduate Students: Any graduate-level language or linguistics course (grade B or higher), or Eng 2100/210 (no graduate credit for this course), or consent of department. Non-English Graduate Students: Any graduate-level language or linguistics course or English 2100/210 (grade of B or higher).</p>	3	3
ENG 5306	<p>ADOLESCENT LITERATURE (3)</p> <p>Survey of the literature appropriate for adolescent readers, including literature written by women, African Americans, and various ethnic and minority groups. Emphasis on critical analysis and evaluation of works useful for teaching adolescent literature in secondary schools.</p> <p>Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ENG 5314	<p>VICTORIAN LITERATURE (3)</p> <p>Representative works from the Victorian period (1830-1901), including poets such and Tennyson, R. Browning, Arnold, E.B. Browning, the Pre-Raphaelites, Swinburne, Wilde, and W.S. Gilbert as well as prose writers such as Carlyle, Arnold, Darwin, Pater, Dickens, Trollope, and Thackeray.</p> <p>Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.</p>	3	3
ENG 5316	<p>WORLD MASTERPIECES (3)</p> <p>Study of major forms, works, authors, and characteristics of classical literatures in Greece, Rome, African, the Middle East, and of Continental European literatures.</p>	3	3
ENG 5321	<p>BLACK WOMEN WRITERS (3)</p> <p>Seminal pieces of Black women's writing in all genres. Exploration of definitions of Black women's writing by examining works of authors such as Jacobs, Harper, Larsen, Hurston, Walker, bell hooks, Morrison, McMillan, Sanchez, and Jordan.</p> <p>Prerequisite: ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 5322	<p>BLACK AMERICAN POETRY (3)</p> <p>Black poetry in America from Wheatley to the present; emphasis on the twentieth century.</p>	3	3
ENG 5323	<p>WRIGHT, ELLISON AND BALDWIN (3)</p> <p>The study of three important Black writers of fiction and nonfiction. Focus on their portrayal of Blacks and on their conception of the role of Blacks in America.</p> <p>Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.</p>	3	3
ENG 5324	<p>GWENDOLYN BROOKS SEMINAR (3)</p> <p>A study of selections from Brooks' early poetry (1945-1960), her novel Maud Martha, her children's books of poetry, and her post 1060s works.</p>	3	3
ENG 5326	<p>ENGLISH ROMANTIC LITERATURE (3)</p> <p>Representative works from the Romantic period (1790-1830), including the philosophical background and historical events (e.g., the Industrial Revolution, the French Revolution, and the Napoleonic wars) which both conditioned and were conditioned by the formal features of literary texts. Focus is on the poetry of Barbauld, Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats, as well as on the prose of Lamb, Hazlitt, DeQuincey, Mary Shelley, and Wollstonecraft.</p>	3	3

ENG 5329	STUDIES IN THE NOVEL (3)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	The novel as a literary type.		
ENG 5331	LITERARY CRITICISM (3) Critical approaches to the study of literature from the traditional to the poststructural.	3	3
ENG 5332	BLACK AMERICAN FICTION (3) Selected masterpieces of Black American prose fiction. Prerequisite: Successful completion of the English Qualifying Exam, Eng 2100/210 and Eng 2260/226 or consent of the department.	3	3
ENG 5334	THE IMAGE OF BLACKS IN AMERICAN PROSE FICTION (3) The portrayal of Black characters in American prose fiction by writers such as Douglass, Stowe, Chesnutt, Twain, Hurston, Wright, Faulkner, Petry, Marshall and Gaines. Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.	3	3
ENG 5337	CLASSICAL RHETORIC (3) Study of the history and fundamental principles of classical rhetoric and its relationship to contemporary persuasive oratory. Analysis of the structure and impact of current political and religious rhetoric through examination of speeches, sermons, essays, journalistic writing, etc. Practice in the use of rhetorical strategies to produce effective discourse.	3	3
ENG 5338	LANGUAGE (3) Language structure and use. Phonology, morphology, syntax, semantics, pragmatics, typology, acquisition, historical development, speech acts, writing, dialects, registers, standards, and attitudes.	3	3
ENG 5339	CURRENT ENGLISH USAGE (3) Study of variations in American English usage.	3	3
ENG 5341	AMERICAN LITERATURE SINCE 1918 (3) Selections from the works of authors including Ellison, Faulkner, Frost, Hemingway, Morrison, O'Connor, Petry, Williams and Wright. Prerequisite: Successful completion of the Graduate Entrance English Exam.	3	3

ENG 5342	BRITISH LITERATURE SINCE 1900 (3) An introduction to the birth of twentieth-century British literature, with attention to its social and cultural history, as well as its philosophical and cultural foundations. Texts are selected from the works of writers such as Hardy, Yeats, Forster, Woolf, Joyce, Lawrence, Eliot, Pinter, Geoffrey Hill, Heaney, Stoppard, and Rushdie.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Successful completion of the English Qualifying Exam or the Graduate English Entrance Exam.		
ENG 5345	AMERICAN LITERATURE 1820 - 1865 (3) Selection from the works of Emerson, Hawthorne, Poe, Thoreau, Melville, Whitman, and others. Prerequisite: Successful completion of the English qualifying examination, ENG 2100/210 and ENG 2260/226, or consent of the department.	3	3
ENG 5346	AMERICAN LITERATURE 1865 - 1917 (3) Selections from the works of Twain, Howells, James, Crane, Emily Dickinson, Chesnut, Chopin, Wharton, Dreiser, Cather, and other American writers. Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.	3	3
ENG 5347	TEACHING OF COMPOSITION SECONDARY SCHOOLS (3) Approaches to teaching grammar, mechanics, usage, style, and organization in narrative, descriptive, expository and argumentative writing. Prerequisite: Admission to the College of Education. ELCF 5500/353 and Read 5100/306 (or concurrent enrollment in ELCF 5500/353 and Read 5100/306), and consent of the department.	3	4
ENG 5349	THE ENGLISH NOVEL (3) English novels from Defoe to the present. Prerequisite: Successful completion of the English Qualifying Exam, ENG 2100/210 and ENG 2260/226 or consent of the department.	3	3

ENG 5350	RESTORATION AND EARLY EIGHTEENTH-CENTURY BRITISH LITERATURE (3) Selected works of Restoration and Augustan British literature (1660-1743) by authors such as Dryden, Butler, Bunyan, Rochester, Wycherley, Behn, prior, Swift Addison, Steele Thomson, Pope, Gray, and Hogarth. Prerequisite: Successful completion of the English Qualifying Exam or the Graduate English Entrance Exam.	3	3
ENG 5351	LATER EIGHTEENTH-CENTURY BRITISH LITERATURE (3) Selected works of later eighteenth-century British literature (1743-1798) by authors such as Collins, Gray, Richardson, Fielding, Joseph Warton, Thomas Warton, Johnson, Boswell, Goldsmith, Crabbe and Cowper. Prerequisites: Successful completion of the English Qualifying Exam or the Graduate	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	English Entrance Exam.		
ENG 5356	THE EXPERIENCE OF FILM (3) Survey of major films both recent and classic. Discussion of techniques and themes, with screenings of representative works in various genres. Showings and discussion.	3	3
ENG 5357	THE ENGLISH RENAISSANCE (3) Representative works written between 1485 and 1603, including poets such as Wyatt, Surrey, Spenser, Raleigh and Drayton as well as prose writers such as Machiavelli, Calvin, Hooker, Fox, Cranmer; also, one of Marlowe's dramas. Prerequisites: Successful completion of the English Qualifying Exam or the Graduate English Entrance Exam.	3	3
ENG 5358	SEVENTEENTH CENTURY BRITISH LITERATURE (3) Significant works of the seventeenth century, exclusive of those "neoclassical" authors identified with the Restoration of monarchy in 1660 and on into the eighteenth century; emphasis is, therefore, on poets such as Jonson, Donne, Herrick, Herbert, Chrashaw, Marvell, Lovelace, Carew, Suckling, Vaughan, Waller, Traherne and Milton, as well as on such political, religious, and scientific prose writers as Hobbes, Burton, Winstanley, Browne and Bacon; also on Jonson's Volpne and Webster's The Duchess of Malfi. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3

ENG 5359	LITERATURE OF THE 18th CENTURY (3) Selections from Dryden, Pepys, Congreve, Defoe, Swift, Pope, Fielding, Richardson, Johnson, and others. Prerequisites: ENG 2100/210 and ENG 2260/226 or consent of the department	3	3
ENG 5360	TEACHING LITERATURE (3) Approaches to teaching literature through reading, writing, and non-print media. Stresses practical development of teaching materials. Prerequisite: Admission to the College of Education.	3	4
ENG 5361	LANGUAGE AND CULTURE (3) Regional and social variations in American English.	3	3
ENG 5366	TEACHING ENGLISH AS A SECOND LANGUAGE (3) Theories of second language learning and acquisition. Emphasis on the works of the theorists such as Krashen and Cummins. Sociolinguistic and sociocultural issues concerning second language explored.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ENG 4338/338 or consent of the department.		
ENG 5367	SPECIAL TOPICS IN ENGLISH (3) Intensive study of a selected subject. May be taken twice for credit if the topics are different. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3
ENG 5368	WORKSHOP IN ENGLISH (1-3) Special study of a selected subject. May be taken twice for credit if the topics are different. Prerequisite: Major in English or consent of the department.	1	1
ENG 5370	THE AMERICAN ETHNIC EXPERIENCE IN LITERATURE (3) Comparative study of ethnic cultures in America through an analysis of their fiction, poetry and drama. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3

ENG 5377	TEACHING WRITING IN A MULTICULTURAL SETTING (3) Techniques related to the problems of teaching writing in a multiethnic classroom.	3	3
ENG 5378	METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE /FIELD (3) Techniques, methods, and materials for teaching English as a second language. Development of a unit and lesson plans that will include teacher-made materials to be used with limited-English proficient students. Fifteen hours of supervised tutoring. Prerequisites: BIL 2000/200, ENG 5338/338, and ENG 5366/366 or consent of the department; admission to the College of Education.	3	4
ENG 5379	WORKSHOP IN PUBLISHING (3) Study of book publishing process with emphases on concepts such as editing, design, production, marketing, sales, and the law. Methods of publishing other materials such as articles, poetry, and short stories. Exploration of career opportunities in publishing. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3
ENG 5380	SEMINAR IN CREATIVE NON-FICTION (3) Intensive study of a selected body of creative non-fiction. Individual research projects.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.		
ENG 5381	SEMINAR IN FICTION (3) Intensive study of a selected body of fiction. Individual research projects. Prerequisite: Successful completion of the graduate English entrance examination or permission of the graduate academic advisor.	3	3
ENG 5382	THE HARLEM RENAISSANCE (3) The study of selected literary works of the Harlem Renaissance spanning all genres. Exploration of the period, writers, and their works. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3

ENG 5383	SEMINAR IN POETRY (3) Intensive study of a representative body of poetry. Individual research projects. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3
ENG 5386	MORRISON, WALKER, HURSTON (3) Careful examination of three major Black female writers: Toni Morrison, Alice Walker, Zora Neale Hurston. Exploration of their lives and writing and criticism of their works. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3
ENG 5390	WOMEN'S VOICES (3) Literature by women: poetic, fictional, and intellectual discourse focusing on gender and social issues. Prerequisites: Successful completion of the Graduate English Entrance Examination, Entrance into the MFA program or consent of department.	3	3
ENG 5395	INTERNSHIP IN WRITING (3-12) Qualified English majors may be recommended for one of the limited number of paid and unpaid writing internships available in the community. May be repeated for up to a maximum of twelve credit hours. Prerequisite: Consent of the department.	3	3
ENG 5400	ADVANCED STUDIES IN ORAL LANGUAGE AND LITERACY: MULTICULTURAL	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	PERSPECTIVES (3) Study of concepts and issues related to literacy, language diversity and sociolinguistics with a heavy emphasis on both oral language practice of Standard American English and related theoretical concepts. Prerequisite(s): ENG 5338 or equivalent.		

ENG 5411	STUDIES IN SHAKESPEARE (3) Intensive study of Shakespeare's plays selected to represent the five kinds into which critics have traditionally classified the dramatic works: tragedies, comedies, histories, problem plays, and late romances. Attention will be given to structure, characterization, setting, use of language, and dramaturgy. Attendance is required at a Chicago Shakespeare Theater performance of one of the plays studied in class. Prerequisite: Successful completion of the English Qualifying Exam or the Graduate English Entrance Exam.	3	3
ENG 5415	STUDIES IN CHAUCER (3) The Canterbury Tales, Troilus and Criseyde, and selected minor poems.	3	3
ENG 5427	METHODS AND MATERIALS OF LITERARY RESEARCH (3) Introduction to bibliographic methods and preparation of the literary research paper.	3	3
ENG 5428	HISTORY OF LITERARY CRITICISM (3) A historical survey of major texts in literary criticism from the Greeks to modern times.	3	3
ENG 5435	HISTORY OF ENGLISH (3) Origins of the English language and its development from Old English to present day English.	3	3
ENG 5436	DESCRIPTIVE GRAMMAR (3) Phonology, morphology, and syntax of American English.	3	3
ENG 5447	SEMINAR IN BLACK LITERATURE (3) Research in a selected topic, e.g. the Harlem Renaissance or the Sixties and Seventies. Prerequisite: Consent of the department.	3	3
ENG 5449	THE POLITICS OF LANGUAGE (3) The role and importance of language in the decision-making process; political, sociocultural, educational, psychological, and economic implications. Topics to be covered	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	include language and power, multilingualism, language and the curriculum, language and gender, language planning, language and nation building, and language and culture. Prerequisite: Consent of the department.		
ENG 5451	INDEPENDENT STUDY IN ENGLISH (1-3) Individual work in English studies. (May be taken twice for credit.)	1	1
ENG 5452	SEMINAR IN ENGLISH LITERATURE (3) Research in a selected topic.	3	3
ENG 5453	SEMINAR IN AMERICAN LITERATURE (3) Research in a selected topic.	3	3
ENG 5454	SEMINAR IN THE ENGLISH LANGUAGE (3) Research in English linguistics.	3	3
ENG 5455	SEMINAR IN THE TEACHING OF COMPOSITION (3) Research in theory and practice of composition and composition teaching at all levels. Individual projects on specific issues. Prerequisite: Open only to accepted master's degree candidates, those who already possess a graduate degree, or consent of the department.	3	3
ENG 5456	SEMINAR IN PUBLISHING-WRITING (3) Workshop for advanced writers. Individual writing projects and/or publishing practices. Prerequisite: Open only to accepted master's degree candidates, those who already possess a graduate degree, or consent of the department.	3	3
ENG 5461	ADVANCED POETRY WRITING WORKSHOP (3) Intensive practice in the craft of poetry and study of the creative process. Intended for students already familiar with traditional and contemporary poetic modes and already writing original poetry. May be repeated for credit with consent of department. Prerequisite: Admission to MFA program or consent of instructor.	3	3
ENG 5463	ADVANCED PROSE FICTION WRITING WORKSHOP (3) Intensive practice in the craft of prose fiction and study of the creative process. Intended for students already familiar with traditional and contemporary fiction and already writing original fiction. May be repeated for credit with consent of department. Prerequisite: Admission to MFA program or consent of instructor	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ENG 5465	<p data-bbox="261 247 922 275">ADVANCED NONFICTION WRITING WORKSHOP (3)</p> <p data-bbox="261 317 1222 420">Intensive practice in the craft of nonfiction and study of the creative process. Intended for students already familiar with traditional and contemporary nonfiction and already writing original nonfiction. May be repeated for credit with consent of department.</p> <p data-bbox="261 459 971 487">Prerequisites: Admission to MFA program or consent of instructor</p>	3	3
ENG 5498	<p data-bbox="261 520 548 548">MASTER'S THESIS (3-6)</p> <p data-bbox="261 590 1230 653">Exploration of an approved topic and the writing of the M.A. or M.F.A. thesis according to department and university guidelines. May be repeated up to a maximum of six hours.</p> <p data-bbox="261 695 1198 758">Prerequisites: Successful completion of at least twenty-seven hours of required graduate coursework and the comprehensive examination.</p>	3	3

Engineering (ENGR)

Course	Course Description	Credit Hrs.	Contact Hrs.
ENGR 1210	<p>INTRODUCTION TO ENGINEERING (4)</p> <p>Exposure to fundamental engineering concepts and fields, professional registration process, engineering ethics, engineering data presentation and error analysis, and fundamentals of computer programming in engineering; logical data types, data objects, subroutines, flow charting, algorithm generation, C++ and MATLAB. ENGR 1210 fulfills the freshman seminar requirement.</p>	4	4
ENGR 2330	<p>ENGINEERING THERMODYNAMICS /4 (3)</p> <p>Systems in Thermodynamic equilibrium, energy systems in thermodynamic equilibrium, energy analysis techniques, the laws of thermodynamics, and characteristics of some thermodynamic systems. Air conditioners, refrigerators, heat engines, and power plants are studied using energy balance methods for a control-mass and control-volume. IAI: EGR 946</p> <p>Prerequisite: PHYS 2330/233.</p>	3	3
ENGR 2400	<p>ENGINEERING ECONOMY (3)</p> <p>This course presents principles and techniques of economic analysis in engineering and management science, and the basic elements of engineering financial system for cost benefit analysis, interest rates, cash flows, project financial analysis, public projects, corporate taxation, and solution options from environmental impact point of view.</p>	3	4
ENGR 2430	<p>STATICS /4 (3)</p> <p>Scalars, vectors, forces, and free body diagrams; resultants and equilibrium of forces and systems; conditions of equilibrium applied to trusses, conditions of equilibrium applied to trusses, beams, frames, and friction in two and three dimensional force systems by vector algebra; centroid, second moment or moment of inertia. Laboratory activities may include problem solving, calculator usage and interacting with computer software, among others. IAI: EGR 942</p> <p>Prerequisite: PHYS 2110/211; Co-requisite: MATH 2430/263.</p>	3	4
ENGR 2500	<p>MATERIAL SCIENCE & ENGINEERING (3)</p> <p>Electronic structure of atoms; atomic and molecular bonding; energy bands; crystal structures; imperfections; noncrystalline solids; reaction rates; diffusion; transport phenomena; thermal conductivity; electrical conduction; semiconductors; magnetism; elasticity and inelastic phenomena; microplasticity; plastic deformation; and fracture.</p> <p>Prerequisite: CHEM 1550/155</p>	3	4

ENGR 2550	DYNAMICS/4 (3) Displacement, velocity, and acceleration of particles; system of particles; relation between	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	forces acting on rigid bodies and the change in motion produced; translation, rotation, and plane motion; work, energy, and momentum principles. Laboratory activities may include problem solving, calculator usage, and interacting with computer software, among others. IAI: EGR 943 Prerequisite: ENGR 2430/210; Co-requisite: MATH 2550/271.		
ENGR 2750	CIVIL ENGINEERING TECHNICIAN COURSE (4) Investigation of properties and testing of materials used in civil and heavy construction with emphasis on concrete, fine-grained soil, and aggregates, principles of construction inspection and safety, including safety practices, Occupational, Safety, and Health Administration (OSHA) requirements, codes and standards. Introduction to surveying and stationing jobsites. (Lab and field experiences.) Prerequisite: Consent of department; successful completion of math qualifying exam or required developmental math courses. Co-requisite: MATH 1250 or equivalent academic coursework.	4	8

Family & Consumer Sci (FCS)

Course	Course Description	Credit Hrs.	Contact Hrs.
FCS 1150	<p>INTRODUCTION TO FAMILY & CONSUMER SCIENCES (3)</p> <p>Examines how individual, family and societal factors interact as persons make judgements about what to do regarding a variety of family and consumer issues. The course will emphasize practical problems that individuals and families face daily and how these decisions are made regarding problems that also affect the larger community.</p>	3	3
FCS 2150	<p>INTERIOR DESIGN (3)</p> <p>Fundamentals of interior design. Focus on concepts and principles of color, line, space and furnishings used in interior settings. Use aesthetics and place/time relationships in residential and commercial settings. Laboratory includes visualization and space analysis.</p> <p>Prerequisite: Consent of department/approval of academic advisor.</p>	3	3
FCS 3092	<p>FAMILY AND CONSUMER SCIENCE CONTENT AREA REVIEW (1)</p> <p>Review of Family and Consumer Science theory and practice in preparation for the state Family and Consumer Science Content Area Exam. Credit does not count toward graduation.</p> <p>Prerequisites: Course is restricted to students currently enrolled in the program and CSU program completers.</p>	1	1
FCS 4750	<p>STUDENT TEACHING IN FAMILY & CONSUMER SCIENCES (6)</p> <p>In-service training for Family & Consumer Science teachers at the secondary level. Supervised teaching and analysis of teaching techniques and problems. Off-campus placement in secondary schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education and all coursework required in the approved program including T&ED 4630/363, ELCF 4500/353, ELCF 2000/200, and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6

Finance (FIN)

Course	Course Description	Credit Hrs.	Contact Hrs.
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FIN 1010	PERSONAL FINANCIAL DECISION (3) Management of personal income and expenditures, including the development of competencies in logic as a consumer in the areas of budgeting, credit, housing and mortgages, insurance, savings and investment and retirement and estate planning. (Critical thinking course.)	3	3
FIN 2660	PRINCIPLES OF FINANCE (3) Nature of financial management. Analysis of financial statements and fund flows. Time value of money and capital budgeting, capital structure, and leverage. Characteristics and use of securities. Prerequisite: ACCT 2110/110.	3	3
FIN 3630	INTRODUCTION TO FINANCIAL MODELING (3) Develop financial models using electronic spreadsheet. Topics include financial statement analysis, cash budget, forecasting, break-even analysis, stock valuation, bond valuation, cost of capital, capital budgeting, and portfolio statistics and diversification. Advanced functions of spreadsheet application will be utilized to facilitate the development and analysis process. Prerequisites: FIN 2660/266	3	3
FIN 3640	INTRODUCTION TO FINANCIAL DERIVATIVES (3) Understanding the nature and valuation of derivative securities including options and futures contracts. Use of financial derivatives for risk management and hedging for businesses. Prerequisite: FIN 2660/266; junior standing.	3	3
FIN 3650	INTERNATIONAL FINANCE (3) The multinational environment and the nature of corporate policy and decision making. Includes the financial management of short-term funds, exchange rates and restrictions on commitment of resources, and the repatriation of capital and profits. Analysis of financial statements and funds flow in a multinational firm including problems in capital budgeting and sources of financing. Prerequisite: FIN 2660/266.	3	3
FIN 3660	FINANCIAL INSTITUTIONS (3) Study of corporate financing from the standpoint of financial institutions which provide funds and facilitate the process of financing, including banks, savings and loan associations, securities markets and exchanges, underwriters, small business administration agencies,	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>economic development corporations, and others. Impact of these institutions on the urban environment. Writing emphasis course.</p> <p>Prerequisite: FIN 2660/266.</p>		
FIN 3670	<p>COMMERCIAL BANKING (3)</p> <p>Quantitative analysis of the role of commercial banks in the savings investment processes, including deposit creation, allocation of assets, structure of liabilities, and the production of bank services.</p> <p>Prerequisite: FIN 2660/266.</p>	3	3
FIN 3680	<p>INVESTMENTS (3)</p> <p>Major sources of investment information, financial markets, portfolio management, current investment theories, and investment advisement.</p> <p>Prerequisite: FIN 2660/266.</p>	3	3
FIN 3690	<p>ADVANCED CORPORATE FINANCE (3)</p> <p>Quantitative analysis of the acquisition, allocation and management of funds within a business enterprise. Financial goals, funds flow, capital budgeting and financing strategies.</p> <p>Prerequisite: Admitted major or minor. FIN 2660/266 and senior standing.</p>	3	3
FIN 3750	<p>REAL ESTATE FINANCE (3)</p> <p>Principles and methods of financing real estate, sources of funds, types and content of financing instruments, analysis of loans, screening of borrowers, legal aspects and the role of various financing institutions, both private and governmental.</p> <p>Prerequisite: FIN 2660/266.</p>	3	3
FIN 3805	<p>ENTREPRENEURIAL FINANCE (3)</p> <p>Provides an overview of the basic financial tools and analysis for the entrepreneur. The identification of entrepreneurial opportunities, enterprise valuation, enterprise financing and acquisitions will be explored. The case study method will be used for the majority of course topics.</p> <p>Prerequisite: FIN 2660</p>	3	3

FIN 3840	RISK MANAGEMENT & INSURANCE (3) Risk identification, risk evaluation, and risk treatment methods. Consideration is given to both business and personal risks, with an emphasis on insurance as a risk management tool. Risk management tools and processes will include insurance and other alternative methods. Prerequisites: FIN 2660/266	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
FIN 4505	ENTREPRENEURIAL MERGERS AND ACQUISITIONS (3) The growth and development of the entrepreneurial enterprise via mergers and acquisitions. Deal structures, financing alternatives, and legal and tax implications will be explored. Prerequisite: FIN 3805	3	3
FIN 4700	CORPORATE FINANCE SEMINAR (3) Courses focuses on integration of financial operations with other operations of a business unit. Includes working capital management, financial planning, capital budgeting, capital structure and financial control. Course focuses on application of corporate finance theory using case studies. Prerequisite: Admitted major or minor. FIN 3690/369.	3	3
FIN 4990	INDEPENDENT STUDY AND SPECIAL PROBLEMS (3) Designed for independent research and study of special finance problems. A comprehensive research paper is required. Maximum of two enrollments, not in the same term, for a total of six credit hours. Prerequisite: Junior standing.	3	3
FIN 5001	FUNDAMENTALS OF FINANCE (3) This course will provide students with the analytical tools to understand the financial world around them. As such, the course will include the nature of financial management, analysis of financial statements and fund flows, time value of money, costs of capital, capital structure, leverage and the characteristics and use of securities. Additionally, this course covers the use of Microsoft Excel functions used by financial practitioners including time value money, risk and return, cash flows, financial statements, ratio analysis, and financial derivatives.	3	3

FIN 5100	CORPORATE FINANCE (3)	3	3
	<p>This course focuses on the integration of financial operations with other operations of a business unit. It includes working capital management, financial planning, capital budgeting, cost of capital, dividend policy, capital structure and financial control. Course focuses on corporate finance theory.</p> <p>Prerequisite: ACCT 5100</p>		

Foreign Lang & Literatures (FL&L)

Course	Course Description	Credit Hrs.	Contact Hrs.
FL&L 1500	<p>STUDY ABROAD: BEGINNING ORIENTATION (1-3)</p> <p>Orientation for coursework in beginning foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated in different languages to a maximum of 12 credit hours.</p> <p>Prerequisites: Good academic standing, consent of department. No language prerequisite.</p>	1	
FL&L 1510	<p>STUDY ABROAD: BEGINNING (1-6)</p> <p>Coursework in beginning foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated in different languages to a maximum of 12 credit hours.</p> <p>Prerequisites: Good academic standing, consent of department. No language prerequisite.</p>	1	
FL&L 1511	<p>INTRODUCTION TO AFRICAN LINGUISTICS (3)</p> <p>Study of the characteristics of the major language families in Africa.</p>	3	3
FL&L 2060	<p>FIELDWORK IN FOREIGN LANGUAGES (3)</p> <p>Application of a foreign language in elementary school (FLES). Workshops in teaching FLES. Thirty clock hours field experience.</p> <p>Prerequisite: Eighteen hours of previous language study.</p>	3	3
FL&L 2190	<p>AFRO-HISPANIC CULTURE AND LANGUAGE (3)</p> <p>Afro-Hispanic culture and language as revealed in customs, history, speech, art, music, and religion. (Enrichment core course.) (This course satisfies the elective course requirements for the African American Studies major or minor.) Credit will not be given for both SPAN 3190/219 and FL&L 2190/219.</p>	3	3

FL&L 2200	AFRICAN WOMEN'S CULTURAL EXPRESSIONS (3) An examination of the rich cultural products and traditions of women in West and North Africa placed within their specific historical, social, and economic contexts. Of particular interest will be visual arts, music, dance, orature/literature, body art and material culture.	3	3
FL&L 2300	THE LANGUAGE AND CULTURE OF HISPANICS IN THE UNITED STATES (3) The course examines the linguistic features which are unique to the various Hispanic groups in the United States as well as their cultural heritage. Credit will not be given for SPAN 3300/230 and FL&L 2300/230.	3	3
FL&L 2500	STUDY ABROAD: INTERMEDIATE ORIENTATION (1-3) Orientation of coursework in intermediate foreign languages and cultures undertaken as	1	

Course	Course Description	Credit Hrs.	Contact Hrs.
	part of an approved university study abroad program. May be repeated in different languages for a maximum of twelve (12) credit hours. Prerequisites: Good academic standing. A minimum of one year of college language and prior approval of the department.		
FL&L 2510	STUDY ABROAD: INTERMEDIATE (1-6) Coursework in intermediate foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated in different languages to a maximum of 12 credit hours. Prerequisites: Good academic standing, a minimum of one year of college language study, and consent of department.	1	
FL&L 2660	AFRO-HISPANIC LITERATURE (3) Study of the outstanding Black writers of Peru, Ecuador, and the Caribbean Circle. (This course satisfies the elective course requirements for the African American Studies major or minor.) Credit will not be given for both SPAN 3660/266 and FL& L 2660/266.	3	3
FL&L 3100	INTRODUCTION TO THE ART OF TRANSLATION (3) Techniques of translation and their practical application. Credit not given for both FL&L 3100/210 and Span 3100/208. Prerequisite: Intermediate level in a foreign language and consent of department.	3	3

FL&L 3200	INTRODUCTION TO SPANISH/ENGLISH INTERPRETATION (3) Introduction to Spanish/English interpretation techniques and their practical applications. Prerequisites: SPAN 3020/202 or consent of department.	3	3
FL&L 3300	TOPICS OF LITERATURE IN TRANSLATION (3-6) Study of national or regional literatures in translation. Course can be repeated with a different topic for maximum of 6 credit hours. Prerequisites: ENG 1270/1230 and ENG 1280/1240.	3	3
FL&L 3310	AFRICAN CINEMA (3) Course focuses on the cinemas of Sub-Saharan Africa with an emphasis on West-African Francophone countries and the post-independence period (1960-present).	3	3
FL&L 4000	METHODS OF TEACHING FOREIGN LANGUAGES IN ELEMENTARY SCHOOL (3) Methods, techniques, and materials for teaching foreign languages in elementary schools. Includes elementary classroom observations and 50hrs internship. May be repeated under different topics for a total of 6 hours.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Admission to the COE and 18hrs of previous language study.		
FL&L 4050	ROMANCE LINGUISTICS & SOCIOLINGUISTICS (3) Syntax, semantics, phonetics, and phonology of romance languages. Social aspects of the languages. Specialized projects dealing with students' language(s) of study.	3	3
FL&L 4200	HISPANIC LITERATURE IN THE U. S. (3) Study of writings by United States Hispanic authors. Credit will not be given for both SPAN 4300/320 and FL&L 4200/320	3	3
FL&L 4310	INTERCULTURAL COMMUNICATION (3) Major concepts and issues pertaining to communicating across cultural boundaries. Prerequisites: Consent of department.	3	3

FL&L 4500	STUDY ABROAD ADVANCED ORIENTATION (1-3) Orientation for coursework in advanced foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated for a maximum of 6 credit hours. Prerequisites: Good academics standing. A minimum of three years of college language and prior approval of the department.	1	
FL&L 4510	STUDY ABROAD ADVANCED (1-6) Coursework in advanced foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated for a maximum of 12 credit hours. Prerequisites: Good academic standing. A minimum of three years of college language and prior approval of the department	1	
FL&L 4630	METHODS OF TEACHING FOREIGN LANGUAGES IN SECONDARY SCHOOLS/FIELD (3) Methods, techniques, and materials for teaching foreign languages in secondary schools. Fifty clock hours of field experience/internship required in the school assigned for student teaching. Prerequisites: Admission to the College of Education , ED 4500/353 and READ 4100/306 (or concurrent enrollment in ED 4500/353 and READ 4100/306). Corequisite: SPAN 1092 and CAS 2630.	3	3
FL&L 4675	STUDENT TEACHING AND SEMINAR: K-12/FIELD (6) Off-campus placement in elementary and secondary level schools. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	courses may be taken during the semester of student teaching. Prerequisite: Admission to the College of Education; completion of all coursework in the approved program; 2.5 grade point average in area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.		
FL&L 5000	METHODS OF TEACHING FOREIGN LANGUAGES IN ELEMENTARY SCHOOL (3) Methods, techniques, and materials for teaching foreign languages in elementary schools. Includes elementary classroom observations and 50hrs internship. May be repeated under different topics for a total of 6 hours. Prerequisites: Admission to the COE and 18hrs of previous language study.	3	3

FL&L 5050	ROMANCE LINGUISTICS & SOCIOLINGUISTICS (3) Syntax, semantics, phonetics, and phonology of romance languages. Social aspects of the languages. Specialized projects dealing with students' language(s) of study.	3	3
FL&L 5200	HISPANIC LITERATURE IN THE U.S. (3) Study of writings by United States Hispanic authors. Credit not given for both SPAN 320G and FL&L 5200/320G.	3	3
FL&L 5310	INTERCULTURAL COMMUNICATION (3) Major concepts and issues pertaining to communicating across cultural boundaries. Prerequisites: Consent of department.	3	3
FL&L 5500	STUDY ABROAD ADVANCED ORIENTATION (1-3) Orientation for coursework in advanced foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated for a maximum of 6 credit hours. Prerequisites: Good academics standing. A minimum of three years of college language and prior approval of the department.	1	
FL&L 5510	STUDY ABROAD ADVANCED (1-6) Coursework in advanced foreign languages and cultures undertaken as part of an approved university study abroad program. May be repeated for a maximum of 12 credit hours. Prerequisites: Good academic standing. A minimum of three years of college language and prior approval of the department.	1	
FL&L 5520	STUDY ABROAD: GRADUATE LEVEL PREPARATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Preparation for course work in foreign languages and cultures for graduate level students undertaken as part of an approved study abroad program. Prerequisites: Good academic standing, a minimum of one year of college language study, and consent of department.		

FL&L 5530	STUDY ABROAD: GRADUATE LEVEL (3) Course work in foreign languages and cultures for graduate level students undertaken as part of an approved study abroad program. Prerequisites: Good academic standing, a minimum of one year of college language study, and consent of department.	3	3
FL&L 5750	STUDENT TEACHING AND SEMINAR: K-12/FIELD (6) Off-campus placement in elementary and secondary level schools. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Prerequisite: Admission to the College of Education; completion of all coursework in the approved program; 2.5 grade point average in area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.	6	6

French (FREN)

Course	Course Description	Credit Hrs.	Contact Hrs.
FREN 0920	ILLINOIS FRENCH TEACHER CERTIFICATION REVIEW (1) Review for the French content certification exam in the state of Illinois.	1	3
FREN 1010	ELEMENTARY FRENCH I LECTURE AND LABORATORY /4 (3) Oral-aural mastery of basic grammar and vocabulary. Reading simple French texts.	3	4
FREN 1020	ELEMENTARY FRENCH II LECTURE AND LABORATORY /4 (3) Continuation of French 1010/101. Additional course fee. Prerequisite: FREN 1010/101 or consent of the department.	3	4
FREN 1050	ELEMENTARY FRENCH III LECTURE AND LABORATORY/4 (3) Continuation of French 102. Optional bridge course for students interested in continuing with French at more advanced levels and who are not able to satisfy intermediate level proficiency. Prerequisites: French 1020/102 or consent of the department.	3	4
FREN 1100	INTENSIVE BEGINNING FRENCH (6) Intensive oral-aural mastery of basic grammar and vocabulary. Reading simple French texts. Course covers one year of college French. Credit may not also be given for French 1010/101 and 1020/102.	6	6

FREN 1200	ELEMENTARY BUSINESS FRENCH I (3) Mastery of basic grammar and vocabulary in a business context. Reading of simple business related documents.	3	3
FREN 1210	ELEMENTARY BUSINESS FRENCH II (3) Continuation of Elementary Business French I. Prerequisite: FREN 1200/120.	3	3
FREN 2010	INTERMEDIATE FRENCH I LECTURE AND LABORATORY /4 (3) Intensive oral drill and recitation in French grammar. Advanced practice in reading and writing. Prerequisite: FREN 1020/102 or consent of the department.	3	4
FREN 2020	INTERMEDIATE FRENCH II LECTURE AND LABORATORY /4 (3) Continuation of French 151. IAI: H1 900	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: FREN 151 or consent of the department.		
FREN 2030	INTERMEDIATE FRENCH III LECTURE AND LABORATORY/4 (3) Continuation of French 2020/152. Optional bridge course for students interested in continuing with French at more advanced levels and who are not able to satisfy advanced level proficiency. Prerequisite: French 2020/152 or consent of the department.	3	4
FREN 2102	ADVANCED FRENCH II (3) Continuation of French 2110/201. Prerequisite: French 2110/201 or consent of department.	3	3
FREN 2110	ADVANCED FRENCH I (3) Continued study of grammar through proper idiomatic usage. Prerequisite: French 2020/152 or consent of department.	3	3

FREN 2120	CULTURE OF FRANCE (3) Study of French culture and custom as revealed in readings, art and music. Prerequisite: French 2020/152 or consent of department.	3	3
FREN 2130	CONTEMPORARY FRENCH SOCIETY (3) Study of French attitudes and values regarding education, work, family and institutions as well as discussions about issues of gender, religion and identity. Prerequisite: FREN 2110/201 or FREN 2102202 or consent of department.	3	3
FREN 2140	MEDIEVAL & RENAISSANCE FRENCH LITERATURE (3) French literature from its beginnings to the Renaissance. Special focus on the epic poem, lyric poetry, novel, theatre and historiography of the period. Prerequisite: French 2102/202 or consent of department.	3	3
FREN 2160	FRENCH LITERATURE OF THE 17TH & 18TH CENTURIES (3) Study of French classicism of the 17th century and the Age of Enlightenment of the 18th century. Prerequisite: French 2102/202 or consent of department.	3	3
FREN 2210	INTRODUCTION TO FRENCH LITERARY CRITICISM (3) Literary analysis of French texts using different critical approaches. Frequent written	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	reports. Prerequisite: French 2020/152 or consent of department.		
FREN 2270	FRENCH LITERATURE FROM THE 19TH TO THE 21ST CENTURY (3) Selected readings and main movements in French literature from the 19th to the 21st century. Prerequisite: French 2102/202 or consent of department.	3	3
FREN 2560	CONVERSATIONAL FRENCH I (3) Everyday conversation for the American living and traveling in France. Prerequisite: One year of French.	3	3

FREN 2570	CONVERSATIONAL FRENCH II (3) Continuation of French 2560/256. Everyday conversation for the American living and traveling in France. Prerequisite: FREN 2560/256 or consent of the department.	3	3
FREN 3150	ADVANCED COMPOSITION (3) Original compositions in French. Translations from English to French. Prerequisite: FREN 2020/152 or consent of the department.	3	3
FREN 3220	SURVEY OF FRENCH LITERATURE I (3) Selected masterpieces of French literature from its origins to 1700. Prerequisites: French 2020/152 or consent of department.	3	3
FREN 3221	SURVEY OF FRENCH LITERATURE II (3) Selected masterpieces of French literature from 1700 to 21st century. Prerequisite: French 2020/152 or consent of department.	3	3
FREN 3700	ADVANCED CONVERSATION (3) Continuation of French 2570//257. Prerequisite: FREN 2570/257 or consent of the department.	2	3
FREN 3990	INDEPENDENT STUDY (3) Independent research in French on a selected topic suited to the student's needs and done under the direction of a faculty member.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
FREN 4140	TOPICS IN LITERATURE IN THE FRENCH LANGUAGE (3) Study of writings in French from various countries. May be repeated twice for credit. Prerequisite: FREN 2020/152 or consent of the department.	3	3

FREN 4301	FRENCH PRESENCE & CULTURAL INFLUENCE IN NORTH AMERICA (3) Study of the French presence in Illinois and the Mississippi River regions and the study of representative travel writings of French explorers in North America from the 15th to the 17th century. Additional course fee. Prerequisite: French 2102/202.	3	3
FREN 4302	FRANCOPHONE LITERATURES AND CULTURES OF THE AMERICAS (3) Selected readings of French Canadian literatures and the literatures of the French Antilles. Prerequisite: FREN 2102/202.	3	3
FREN 4303	FRANCOPHONE BLACK AFRICAN LITERATURE AND FILM (3) Study of colonial and post-colonial African literature and film of French expression. Prerequisite: FREN 2102/202	3	3
FREN 4304	FRANCOPHONE LITERATURE AND FILM OF THE MAGHREB (3) Study of colonial and post-colonial literature and film of French expression from the Maghreb. Prerequisite: FREN 2102/202	3	3
FREN 4305	TEACHING FRENCH LITERATURE AND CULTURE (3) Methodologies for the integration of language, literature and culture in the foreign language classroom and techniques for teaching. Prerequisite: Admission to the College of Education or returning teacher.	3	3
FREN 4306	CHILDREN'S LITERATURE IN FRENCH (3) Selected readings of children's literature from the French-speaking world. Prerequisite: Advanced composition or consent of the department.	3	3
FREN 4307	TEACHING READING AND WRITING SKILLS IN FRENCH (3) Methodologies and techniques for the development of reading and writing skills in the	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	French classroom K-12. Prerequisite: Admission to the College of Education and advanced French level.		

FREN 4308	FRENCH CINEMA (3) An introduction to the study of film and an in-depth chronological survey of the art of French cinema. Prerequisite: FREN 2102/202 or consent of the department.	3	3
FREN 4309	HISTORY OF FRENCH ART (3) Study of the major artists, styles and movements in French art from the 1500s to modern times. Teaching modules will also be developed by teaching candidates. Prerequisites: Advanced French level or consent of department.	3	3
FREN 5140	TOPICS IN LITERATURE IN THE FRENCH LANGUAGE (3) Study of writings in French from various countries. May be repeated twice for credit. Prerequisite: FREN 2020/152 or consent of the department.	3	3
FREN 5301	FRENCH PRESENCE & CULTURAL INFLUENCE IN NORTH AMERICA (3) Study of the French presence in Illinois and the Mississippi River regions and the study of representative travel writings of French explorers in North America from the 15th to the 17th century. Additional course fee. Prerequisite: French 2102/202.	3	3
FREN 5302	FRANCOPHONE LITERATURES AND CULTURES OF THE AMERICAS (3) Selected readings of French Canadian literatures and the literatures of the French Antilles. Prerequisite: FREN 2102/202.	3	3
FREN 5303	FRANCOPHONE BLACK AFRICAN LITERATURE AND FILM (3) Study of colonial and post-colonial African literature and film of French expression. Prerequisite: FREN 2102/202	3	3
FREN 5304	FRANCOPHONE LITERATURE AND FILM OF THE MAGHREB (3) Study of colonial and post-colonial literature and film of French expression from the Maghreb. Prerequisite: FREN 2102/202	3	3
FREN 5305	TEACHING FRENCH LITERATURE AND CULTURE (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Methodologies for the integration of language, literature and culture in the foreign language classroom and techniques for teaching.</p> <p>Prerequisite: Admission to the College of Education or returning teacher.</p>		
FREN 5306	<p>CHILDREN'S LITERATURE IN FRENCH (3)</p> <p>Selected readings of children's literature from the French-speaking world.</p> <p>Prerequisite: Advanced composition or consent of the department.</p>	3	3
FREN 5307	<p>TEACHING READING AND WRITING SKILLS IN FRENCH (3)</p> <p>Methodologies and techniques for the development of reading and writing skills in the French classroom K-12.</p> <p>Prerequisite: Admission to the College of Education and advanced French level.</p>	3	3
FREN 5308	<p>FRENCH CINEMA (3)</p> <p>An introduction to the study of film and an in-depth chronological survey of the art of French cinema.</p> <p>Prerequisite: FREN 2102/202 or consent of the department.</p>	3	3
FREN 5309	<p>HISTORY OF FRENCH ART (3)</p> <p>Study of the major artists, styles and movements in French art from the 1500s to modern times. Teaching modules will also be developed by teaching candidates.</p> <p>Prerequisites: Advanced French level or consent of the department.</p>	3	3

Freshman Seminar (FRSE)

Course	Course Description	Credit Hrs.	Contact Hrs.
FRSE 1500	<p>FRESHMAN SEMINAR: SPECIAL TOPICS (2)</p> <p>Freshman seminar explores specific topics through shared readings, case studies, written assignments, discussions, collaborations and special projects. The seminar enables students to enhance their written and oral communication skills, sharpen their critical and analytical reasoning and broaden their intellectual perspectives. The course also introduces discipline related learning strategies and appropriate assessments, the University's academic policies and procedures as well as current campus issues. Topics may be cross disciplinary and/or interdisciplinary.</p>	2	2

FRSE 1510	<p>PORTFOLIO DEVELOPMENT (1)</p> <p>This course provides additional structured collaborative activities that enable students to become more purposeful and self directed. The course offers readings, case studies and self assessments that lead to improved information processing, self esteem bulding, exploration of majors and career awareness. Students will develop a life vision portfolio that contains action plans for achieving their educational life goals. To do so, students will review their personal histories, prior learning as well as assignments, reflections and assessments completed in Freshman Seminar 1500 and during their freshman year.</p> <p>Prerequisite: FRSE 1500; enrollment in University College Program.</p>	1	1
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Geography (GEOG)

Course	Course Description	Credit Hrs.	Contact Hrs.
GEOG 1000	<p>SOCIETIES AND ENVIRONMENTS (3)</p> <p>Contemporary problems of human and natural environments in the rich and poor regions of the world. The course focuses on Africa, Latin America, and Asia. (Enrichment core course.) IAI: S4 900N</p>	3	3
GEOG 1092	<p>GEOGRAPHY TEACHER CERTIFICATION REVIEW (1)</p> <p>Review of essential subject matter, skills, and perspectives for Illinois State Board of Education Teacher Certification Examination in Social Science. Cannot be counted for degree credit. This is a Pass/Fail course.</p> <p>Prerequisites: Concurrent registration in GEOG 4630/363.</p>	1	1
GEOG 1099	<p>FRESHMAN SEMINAR IN GEOGRAPHY (1)</p> <p>Introduction to the expectations of the university. The nature of a geographic approach to learning. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life.</p> <p>Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.</p>	1	1
GEOG 1100	<p>GLOBALIZATION AND DIVERSITY (3)</p> <p>Geographic implications of cultural, economic, political and environmental aspects of globalization in world regions. The persistence of diversity among the world's people and places despite globalization processes.</p>	3	3
GEOG 1219	<p>REAL ESTATE TRANSACTIONS AND CITY PROBLEMS (3)</p> <p>An overview of the field. A survey of real estate law and home ownership, and effects of urbanism on real estate. (Licensing course for State of Illinois.)</p>	3	3
GEOG 1400	<p>INTRODUCTION TO PHYSICAL GEOGRAPHY /4 (3)</p> <p>Basic processes guiding the formation of Earth's natural landscapes. Map reading, geography and astronomy, earth-sun relations, weather and climates, earth materials, continental drift theory, plate tectonics, energy and mineral resources. Rivers, earth quakes, glaciers, and human-environment interactions. May include integrated field trip. Additional course fee. IAI: P1 909L</p>	3	4

GEOG 1500	PRINCIPLES AND PRACTICES OF FOOD JUSTICE (3) Hands-on experience in the process of environmentally-sound, community-based, food development projects. Service learning course examines local social problems including hunger, homelessness, poverty, ecology, health, and food systems. Off campus activity required. See instructor.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
GEOG 2200	GEOSPATIAL REASONING (3) Reasoning about local and global issues involving concepts of space, power, and environment in non-Western and Western contexts. Analysis and criticism of different perspectives. Use of geographical tools such as maps, databases, statistics, observations, and publications to thoroughly support their ideas in written or oral form.	3	3
GEOG 2210	CULTURAL GEOGRAPHY (3) World cultural regions in relation to population distribution and density. Determinants and types of settlement patterns. Writing emphasis course. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: GEOG 1000/101, equivalent, or consent of the department.	3	3
GEOG 2230	GEOGRAPHY OF THE WORLD ECONOMY (3) Geography of local, regional, and global economic organization. Perspectives on the emergence of a global economy. Prerequisite: GEOG 1000/101 or equivalent, or consent of the department.	3	3
GEOG 2250	URBAN AGRICULTURE, FOOD & SUSTAINABILITY (3) Introduction to alternative and conventional food systems and policies, types of urban agriculture practices, and the ecological basis of the plant and soil components of agriculture. Highlights linkages to human health. Prerequisites: BIOL 1070, BIOL 1080, BIOL 1300 or BIOL 1710 OR GEOG 1000, GEOG 1100, GEOG 1200, GEOG 1500 or SOC 1500.	3	4
GEOG 2400	TEACHING PHYSICAL GEOGRAPHY (4) Basic processes of the geography, geology, and atmospheric science of the Earth. Relationship of the Earth to the solar system. Focus on teaching methods. Includes teaching practicum. Additional course fee. Prerequisite: GEOG 1400/131	4	4

GEOG 2410	FUNDAMENTALS OF WEATHER/4 (3) Radiation/energy balance; characteristics of the atmosphere; heat, moisture, and pressure; global, regional, and local weather; severe storms, air pollution. Prerequisite(s): GEOG 1400/131 or equivalent, or consent of department.	3	4
GEOG 2440	INTERMEDIATE PHYSICAL GEOGRAPHY (3) Processes that shape the world's landforms, including tectonics, volcanism, weathering, streams, and glaciers. Their effect on soils, bioregions, and natural hazards. Includes integrated laboratory activities and field trip(s).	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): GEOG 1400/131 or equivalent, or consent of department.		
GEOG 2500	THE CITY: ENVIRONMENT AND PEOPLE (3) Introduction to urban physical and cultural environments, services, and population. The course focuses equally on cities in the Western and non-Western realms in a rapidly urbanizing world. (Enrichment core course.)	3	3
GEOG 2840	INTRODUCTION TO GEOSPATIAL TECHNOLOGIES (3) Fundamentals of remote sensing, global positioning system (GPS), geographic information systems (GIS), and cartography. Use of remotely sensed, GPS, and other types of spatial data to perform basic GIS queries/analysis and cartographic presentation of analysis results. Prerequisite: 3 credit hours in Geography.	3	3
GEOG 2900	INDEPENDENT STUDY IN GEOGRAPHY (1-3) Individually supervised study of selected topics. Prerequisite: Consent of the department.	1	1
GEOG 3010	GEOGRAPHY OF THE UNITED STATES AND CANADA (3) Physical, economic, and political geography of Canada and the United States. Physical relationship and contributions to local, national and world economy. Additional course fee. Prerequisite: GEOG 1000/101 or equivalent or consent of the department.	3	3

GEOG 3060	AFRICA SOUTH OF THE SAHARA (3) Environment and climate changes; History and culture; ethnicity and politics; economics and development; population, migration and health of Africa South of the Sahara. (This course satisfies the elective course requirements for the African American Studies major and minor) Prerequisite(s): GEOG 1000/101, GEOG 1100/110 or consent of the department.	3	3
GEOG 3099	TOPICS IN REGIONAL GEOGRAPHY (3) Physical, Sociocultural, political, and economic geography of a major region, other than Africa and North America. May be repeated for different regions for a maximum of 9 credits. Prerequisites: GEOG 1000/101 or GEOG 1100/110 or consent of the department.	3	3
GEOG 3229	POLITICAL GEOGRAPHY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Landforms, population, and economic factors influencing territorial control; emphasis on areas of current friction between nations. Prerequisite: HIST 1210/121, equivalent, or consent of the department.		
GEOG 3450	CONSERVATION OF NATURAL RESOURCES (3) Location, utilization, conservation and depletion of major physical resources of importance to the United States. Prerequisite: GEOG 1000/101 or consent of the department.	3	3
GEOG 4010	GEOGRAPHY OF THE CHICAGO METROPOLITAN AREA (3) Development, functions, and problems. Land use, population patterns, industry and transportation. Prerequisite: GEOG 2500/111 or equivalent, or consent of the department.	3	3
GEOG 4210	GEOGRAPHY OF HEALTH AND DISEASE (3) Physical and cultural factors influencing disease and the delivery of health care services. Prerequisite: GEOG 1000/101 or consent of the department.	3	3

GEOG 4220	HISTORY OF GEOGRAPHY (3) Survey of the major schools of thought; works of leading geographers and related selected writings.	3	3
GEOG 4250	GEOGRAPHY OF FOOD AND HUNGER (3) Geography, culture, and economics of food from production to consumption. Differences and disparities in access to food worldwide and locally. Prerequisite: Consent of department.	3	3
GEOG 4260	GEOGRAPHY AND SOCIAL JUSTICE (3) Social Justice as an activist movement and a set of ideas. Case studies of uneven distribution of wealth and poverty as well as of issues of equal rights and equal access to services, education, employment and the political structure from the US and international locations. Assessment of policy, activism, and theoretical understandings of social justice issues. Prerequisites: GEOG 2210/202 or GEOG 2230/204 or consent of department.	3	3
GEOG 4270	GEOGRAPHY OF POPULATION (3) World population patterns, characteristics, and trends. Problems of migration and over population.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of department.		
GEOG 4280	GENDER, DEVELOPMENT & GLOBALIZATION (3) Gendered implications of the history of uneven development and development policy. Analysis of gendered impact of planning and policy intended to develop the less developed world. Emergence and significance of cultural and economic globalization and implications for gender and development. Prerequisites: GEOG 2210/202 or 2230/204 or equivalent, or consent of department.	3	3
GEOG 4290	ENVIRONMENTAL JUSTICE (3) Environmental justice as an activist movement and a set of ideas. Case studies of uneven distribution of environmental resources and pollution from the US and international locations. Assessment of policy, activism and theoretical understandings of environmental justice issues. Prerequisites: GEOG 2210/202 or 2230/204 or equivalent, or consent of department.	3	3

GEOG 4300	SEMINAR IN GEOGRAPHY (3) Special topics and problems. May be repeated for a maximum of nine credit hours under different topics. Prerequisite: Consent of the department.	3	3
GEOG 4460	HAZARDS OF GLOBALIZATION (3) Interconnection of local, regional and global systems of environment, economy and transportation. Consequences of globalization, focusing on bioinvasion by exotic species and diseases, and culture conflicts resulting from mass communication and transportation. Additional course fee. Prerequisite: Consent of department.	3	3
GEOG 4500	URBAN GEOGRAPHY (3) The study of the city and its problems including those dealing with housing, neighborhoods, transportation, industry, environment, and city planning. Writing emphasis course. Additional course fee. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: GEOG 2500/111 or equivalent, or consent of the department.	3	3
GEOG 4520	PRINCIPLES AND PRACTICES OF URBAN AND REGIONAL PLANNING (3) Theory and techniques. Analysis of established planning practices. (This course satisfies the elective course requirements for the African American Studies major or minor.)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: GEOG 4500/316 or consent of the department.		
GEOG 4530	NEIGHBORHOOD DEVELOPMENT (3) Problems associated with declining neighborhoods and development efforts are analyzed. Case study approach incorporating field work. Prerequisite: GEOG 4500/316 or consent of the department.	3	3
GEOG 4540	COMMUNITY ANALYSIS (3) Techniques for analyzing a community's social and economic makeup, natural and built environment, and local assets and challenges. Prerequisites: Geog 4500/316	3	3

GEOG 4590	<p>URBAN FIELD EXPERIENCE (3-12)</p> <p>Supervised experience in internship as a volunteer worker in a social, private, or governmental agency program.</p> <p>Prerequisite: Consent of the department.</p>	3	3
GEOG 4630	<p>METHODS OF TEACHING SOCIAL STUDIES AT THE SECONDARY LEVEL (GRADES 6 - 12) /FIELD (3)</p> <p>Methods of teaching geography, history, and other social studies in high school grades 9-12 and middle school grades 6-8. Thirty clock hours of field experience. Credit not given for both GEOG 277 and 4630/363.</p> <p>Co-requisite: GEOG 0920/ 092 and CAS 2630/363. Admission to College of Education; ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306); and consent of the department.</p>	3	3
GEOG 4750	<p>STUDENT TEACHING AND SEMINAR - SECONDARY/FIELD (6)</p> <p>Off-campus placement in secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6
GEOG 4800	<p>INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3)</p> <p>Fundamentals of cartography; data development and acquisition; introduction to data structures and database management; spatial analysis and modeling; GIS applications areas. GIS and Society. Additional course fee.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: GEOG 2840		
GEOG 4805	<p>GIS FOR HOMELAND SECURITY (3)</p> <p>Spatial data acquisition and database development and management; data quality and standards; compiling, visualizing and analyzing spatial data for homeland security planning and operations (preparation, prevention, protection, response and recovery operations).</p> <p>Prerequisite(s): Junior standing or consent of department.</p>	3	3

GEOG 4810	CARTOGRAPHIC DESIGN AND VISUALIZATION (3) Map projections and the concept of distortion, symbolization and generalization, principles of cartographic design for effective communication and visualization of geospatial information, and design of presentation quality maps. Additional course fee. Prerequisites: GEOG 2840 or consent of department.	3	3
GEOG 4820	ENVIRONMENTAL REMOTE SENSING (3) Photographic and non-photographic techniques of acquiring environmental data, image interpretation and analysis, and fundamentals of digital image processing. Additional course fee. Prerequisite: GEOG 2840.	3	3
GEOG 4830	ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (3) Advanced concepts in spatial data structures, database development and management, data standards, data errors and quality control, and spatial analysis and modeling. Additional course fee. Prerequisite: GEOG 4800/342 or consent of the department.	3	3
GEOG 4840	ADVANCED REMOTE SENSING (3) GEOG 4840 builds on the basic concepts and skills learned in GEOG 4820, Environmental Remote sensing, to provide students with a solid foundation in processing and analyzing remotely-sensed digital and analog data for a wide range of applications. Prerequisite(s): GEOG 4820	3	3
GEOG 4841	GIS DATABASE DEVELOPMENT AND MANAGEMENT (3) Geodatabase formats, geodatabase design and development, metadata design and development, and GIS data acquisition and integration. Additional course fee.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: GEOG 4830/344 or consent of the department.		

GEOG 4842	GIS PROGRAMMING AND WEB MAPPING (3) Introduction to Web Mapping technologies and principles. Topics covered include: Web design fundamentals, Open Geospatial Consortium standards, Application Programming Interfaces (API), Mobile GIS, Cloud GIS, Volunteered Geographic Information (VGI), Spatial Data Infrastructure (SDI), and Web Cartography. Additional course fee. Prerequisites: GEOG 4830/344 or consent of the department.	3	3
GEOG 4880	GEOGRAPHIC MEASUREMENT TECHNIQUES (3) Analytical methods for geographic decision-making and spatial analysis. Additional course fee. Prerequisites: GEOG 2899/280 and ECON 4000/230 or consent of the department.	3	3
GEOG 4900	INDEPENDENT RESEARCH IN GEOGRAPHY (1-3) Individually supervised study of selected topics. May be repeated for a maximum of six credit hours under different topics. Prerequisite: Consent of the department.	1	1
GEOG 4910	GEOGRAPHY INTERNSHIP (1-6) Practical application of geographical theory and techniques in career-oriented research projects, agency work, or special programs. 40 hours of work per credit hour required. Prerequisites: Consent of the department.	1	1
GEOG 4950	GEOGRAPHY CAPSTONE (3) Completion of a senior paper incorporating original research and/or content of significance to geography. Satisfies university thesis requirement. Prerequisites: Senior standing; Geography major.	3	3
GEOG 4990	SENIOR HONORS THESIS (3) Directed research and writing. May be repeated for a maximum of six (6) total credit hours.	3	3
GEOG 5010	GEOGRAPHY OF THE CHICAGO METROPOLITAN AREA (3) Development, functions, and problems. Land use, population patterns, industry and transportation. Prerequisite: GEOG 2500/111 or equivalent, or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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GEOG 5250	<p>GEOGRAPHY OF FOOD AND HUNGER (3)</p> <p>Geography, culture, and economics of food from production to consumption. Differences and disparities in access to food worldwide and locally.</p>	3	3
GEOG 5260	<p>GEOGRAPHY AND SOCIAL JUSTICE (3)</p> <p>Social justice as an activist movement and a set of ideas. Case studies of uneven distribution of wealth and poverty as well as of issues of equal rights and equal access to services, education, employment and the political structure from the US and international locations. Assessment of policy, activism, and theoretical understandings of social justice issues.</p> <p>Prerequisites: GEOG 2210/202 or GEOG 2230/203 or consent of department.</p>	3	3
GEOG 5270	<p>GEOGRAPHY OF POPULATION (3)</p> <p>World population patterns, characteristics, and trends. Problems of migration and over population.</p> <p>Prerequisite: Consent of the department.</p>	3	3
GEOG 5280	<p>GENDER DEVELOPMENT & GLOBALIZATION (3)</p> <p>Gendered implications of the history of uneven development and development policy. Analysis of gendered impact of planning and policy intended to develop the less developed world. Emergence and significance of cultural and economic globalization and implications for gender and development.</p>	3	3
GEOG 5290	<p>ENVIRONMENTAL JUSTICE (3)</p> <p>Environmental justice as an activist movement and a set of ideas. Case studies of uneven distributions of environmental resources and pollution from the US and international locations. Assessment of policy, activism and theoretical understandings of environmental justice issues.</p>	3	3
GEOG 5300	<p>SEMINAR IN GEOGRAPHY (3)</p> <p>Special topics and problems. May be repeated for a maximum of nine credit hours under different topics.</p> <p>Prerequisite: Consent of the department.</p>	3	3
GEOG 5460	<p>HAZARDS OF GLOBALIZATION (3)</p> <p>Interconnection of local, regional and global systems of environment, economy and transportation. Consequences of globalization, focusing on bioinvasion by exotic species and diseases, and culture conflicts resulting from mass communication and transportation. Additional course fee.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
GEOG 5500	<p>URBAN GEOGRAPHY (3)</p> <p>The study of the city and its problems including those dealing with housing, neighborhoods, transportation, industry, environment, and city planning. Writing emphasis course. Additional course fee.</p> <p>Prerequisite: Consent of the department.</p>	3	3
GEOG 5520	<p>PRINCIPLES AND PRACTICES OF URBAN AND REGIONAL PLANNING (3)</p> <p>Theory and techniques. Analysis of established planning practices.</p> <p>Prerequisite: GEOG 5500/4500/316G or consent of department.</p>	3	3
GEOG 5530	<p>NEIGHBORHOOD DEVELOPMENT (3)</p> <p>Problems associated with declining neighborhoods and development efforts are analyzed. Case study approach incorporating field work.</p> <p>Prerequisite: GEOG 5500/316G or consent of department.</p>	3	3
GEOG 5540	<p>COMMUNITY ANALYSIS (3)</p> <p>Techniques for analyzing a community's social and economic makeup, natural and built environment, and local assets and challenges.</p> <p>Prerequisites: GEOG 5500/316G or consent of department.</p>	3	3
GEOG 5550	<p>SEMINAR IN COMMUNITY DEVELOPMENT (3)</p> <p>Creation, design and implementation of a community development study project involving working closely with a community development organization. Lectures, fieldwork, and discussions include topics of fundraising, staffing, budgeting and strategic planning.</p> <p>Prerequisites: GEOG 5520/350G, GEOG 5530/352G, GEOG 5540/353G and SOC 2400/202 or higher; or consent of department.</p>	3	3
GEOG 5590	<p>URBAN FIELD EXPERIENCE (3-12)</p> <p>Supervised experience in internship as a volunteer worker in a social, private, or governmental agency program.</p> <p>Prerequisite: Consent of the department.</p>	3	3

GEOG 5800	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3) Fundamentals of cartography; data development and acquisition; introduction to data structures and database management; spatial analysis and modeling; GIS applications areas. GIS and Society. Additional course fee.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: GEOG 2840 or Consent of Department		
GEOG 5805	GIS FOR HOMELAND SECURITY (3) Spatial data acquisition and database development and management; data quality and standards; compiling, visualizing and analyzing spatial data for homeland security planning and operations (preparation, prevention, protection, response and recovery operations).	3	3
GEOG 5810	CARTOGRAPHIC DESIGN AND VISUALIZATION (3) Map projections and the concept of distortion, symbolization and generalization, principles of cartographic design for effective communication and visualization of geospatial information, and design of presentation quality maps. Additional course fee. Prerequisites: GEOG 2840 or consent of department	3	3
GEOG 5820	ENVIRONMENTAL REMOTE SENSING (3) Photographic and nonphotographic techniques of acquiring environmental data, image interpretation and analysis, and fundamentals of digital image processing. Additional course fee. Prerequisites: GEOG 2840 or consent of department	3	3
GEOG 5830	ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (3) Advanced concepts in spatial data structures, database development and management, data standards, data errors and quality control, and spatial analysis and modeling. Additional course fee. Prerequisite: GEOG 5800/342G or consent of department.	3	3

GEOG 5840	ADVANCED REMOTE SENSING (3) Digital image processing and analysis of remotely sensed data for earth resource management applications and imagery in GIS. Additional course fee. Prerequisite: GEOG 5820/343G or consent of department.	3	3
GEOG 5841	GIS DATABASE DEVELOPMENT AND MANAGEMENT (3) Geodatabase formats, geodatabase design and development, metadata design and development, and GIS data acquisition and integration. Additional course fee. Prerequisites: GEOG 5830 or consent of department	3	3
GEOG 5842	GIS PROGRAMMING AND CUSTOMIZATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Visual Basic programming and customization of ArcGIS to extend its built-in functionalities and to automate repetitive tasks. Additional course fee. Prerequisites: GEOG 5830 or consent of department		
GEOG 5850	GEOGRAPHIC INFORMATION SYSTEMS APPLICATION (3) Development and implementation of a major GIS project and seminars on GIS project planning and implementation, decision making in the GIS context, and system planning and implementation. Additional course fee. Prerequisite: GEOG 5830/344G and GEOG 5840/443 or consent of department.	3	3
GEOG 5851	GIS INTERNSHIP (3) Minimum of 80 hours of internship working in a public or private agency that utilizes the GIS technology in any GIS position deemed appropriate for an intern. Students will document their day-to-day activities and their experiences as interns and write a final report to be submitted to the CSU intern supervisor. Final grade will be based on the final report and a survey on intern performance completed by the intern employer. Prerequisites: GEOG 5830	3	3
GEOG 5860	GEOGRAPHIC INQUIRY (3) Introduction to research and writing in geography at the graduate level. Explores fundamental debates and literatures in the discipline. Emphasizes tasks of critical reading, research question formulation, research design, and writing.	3	3

GEOG 5880	GEOGRAPHIC MEASUREMENT TECHNIQUES (3) Analytical methods for geographic decisionmaking and spatial analysis. Additional course fee. Prerequisite: GEOG 2899/280, ECON 4000/230, or consent of the department.	3	3
GEOG 5890	FIELD RESEARCH TECHNIQUES LECTURE AND FIELD /4 (3) Detailed and reconnaissance field work. Classification of natural and cultural features, interview procedures, and preparation of maps and reports based on field data. Prerequisite: Consent of the department.	3	4
GEOG 5900	INDEPENDENT RESEARCH IN GEOGRAPHY (1-3) Individually supervised study of selected topics. May be repeated for a maximum of six credit hours under different topics. Prerequisite: Consent of the department.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
GEOG 5905	SPECIAL TOPICS WORKSHOP (1-9) Workshop in geography on special topics for teachers and professionals. May be repeated for a maximum of nine credit hours under different topics. Not to be included in the master's program in geography without specific written department consent. Prerequisite: Consent of the department.	1	1
GEOG 5910	SPECIAL STUDIES IN GEOGRAPHY I (3) Advanced study and directed research (May be repeated for a maximum of nine credit hours under different topics.) Prerequisite: Consent of the department.	3	3
GEOG 5920	SPECIAL STUDIES IN GEOGRAPHY II (3) Advanced study and directed research. (May be repeated for a maximum of nine credit hours under different topics.) Prerequisite: Consent of the department.	3	3

GEOG 5990	<p>MASTER'S THESIS (1-6)</p> <p>Directed research. May be repeated. May be taken for 1-6 hours a semester. At least six hours taken over one or multiple semesters are required for graduation. T grade is allowed for this course.</p> <p>Prerequisite(s): Consent of department and successful completion of 12 credit hours in the graduate program.</p>	1	1
GEOG 5991	<p>M.A. THESIS I (3)</p> <p>Directed research resulting in completion of a master's thesis proposal and acquisition of data necessary to write thesis.</p> <p>Prerequisites: Consent of Department and completion of 12 credit hours in the graduate program.</p>	3	3
GEOG 5992	<p>M.A. THESIS II (3)</p> <p>Directed research resulting in data analysis, preparation and successful defense of written thesis.</p> <p>Prerequisites: GEOG 5991, Consent of Department and completion of 12 credit hours in the graduate program.</p>	3	3

German (GERM)

Course	Course Description	Credit Hrs.	Contact Hrs.
GERM 1010	ELEMENTARY GERMAN I LECTURE AND LABORATORY /4 (3) Oral-aural mastery of basic grammar and vocabulary. Reading simple German texts.	3	4
GERM 1020	ELEMENTARY GERMAN II LECTURE AND LABORATORY /4 (3) Continuation of German 1010/101. Prerequisite: GERM 1010/101 or consent of the department.	3	4
GERM 2010	INTERMEDIATE GERMAN I LECTURE AND LABORATORY/6 (3) Intensive oral drill and recitation in German grammar. Advanced practice in reading and writing. Prerequisite: GERM 1020/102 or consent of the department.	3	6
GERM 2020	INTERMEDIATE GERMAN II LECTURE AND LABORATORY /4 (3) Continuation of German 2010/151. IAI: H1 900 Prerequisite: GERM 2010/151 or consent of the department.	3	4
GERM 2060	CONVERSATIONAL GERMAN I (3) German for everyday situations; exposure to contemporary German life and culture. Prerequisite: GERM 1020/102.	3	3

General Studies (GSP)

Course	Course Description	Credit Hrs.	Contact Hrs.
GSP 2000	GENERAL STUDIES ORIENTATION (3) Introduction to the university and the General Studies program. Practice in critical thinking, oral and written communication, research and college level work with a review of study skills. Development of the student learning agreement and choice of the degree concentration. Credit will be given for only one of the following; BOG 1500 or GSP 2000.	3	3

GSP 2500	CREATING GSP PRIOR LEARNING ASSESSMENT PORTFOLIO (3) Methods of developing a coherent persuasive presentation of college-level learning in a Prior Learning Assessment (PLA) portfolio. Through intensive writing and research activities, the student will be able to prepare a PLA portfolio that can be assessed by faculty and/or content experts for possible university/college credit. Credit will be given for only one of the following; BOG 2500 or GSP 2500.	3	3
GSP 4500	GENERAL STUDIES CAPSTONE SEMINAR (3) Completion of the learning contract and degree plan. Connections between academe and the world of work. Utilization of critical thinking, communication, research, assessment and evaluation within the senior thesis. Prerequisites: Successful completion of GSP 2000, ENG 1270/1230, and ENG 1280/1240, and senior status.	3	3

Health & Safety (H S)

Course	Course Description	Credit Hrs.	Contact Hrs.
H S 1120	PERSONAL AND COMMUNITY HEALTH (2) Individual and community health problems. Their relationship to scientific, social, economic and political changes.	2	2
H S 1200	CURRENT ISSUES IN HIV/AIDS (2) Current issues in HIV/AIDS to enhance allied health, education, physical education, health and recreation professionals' awareness of this serious topic.	2	2
H S 1575	FIRST AID AND EMERGENCY CARE (3) Knowledge and skills necessary, for lay responders, to give care in an emergency, help sustain life, and minimize consequences of injury or sudden illness until medical help arrives. Certification exams in first aid and CPR will be administered. Additional course fee.	3	3
H S 1580	ALCOHOL, TOBACCO AND DRUGS (2) Use and abuse of stimulants, depressants, hallucinogens, tobacco, alcohol and other drugs harmful to the body.	2	2

H S 2200	PERSONAL HEALTH AND WELLNESS (3) An overview of wellness concepts and theories from interdisciplinary perspectives. Planning and implementation of wellness activities from a holistic approach. Development of skills, attitudes, beliefs, and habits by providing learning experiences that will assist in achieving an optimal level of wellness through self-responsibility. Fitness activity sessions will be included in the course programming.	3	3
H S 2250	INTRODUCTION TO HEALTH ISSUES (1) An introduction to the study of health issues that affect intellectual, emotional and physical well-being.	1	1
H S 342G		3	3
H S 4010	INTRODUCTION TO MOOD MODIFYING SUBSTANCES (3) A broad historical and cultural overview of attitudes towards drug abuse and investigation into the disease concept of chemical dependency. Early intervention and prevention methods are studied.	3	3
H S 4020	HIV/AIDS AND OTHER STD ISSUES (3) Current issues in HIV/AIDS and other STDs will be explored and discussed. Focus will be teaching young adults the facts of these diseases, promoting healthy relationships, and responsible sexual behavior. Discussion will also be introduced on the implications of these diseases in the world today and the future for young adults.	3	3
H S 4030	CONTEMPORARY METHODS AND MATERIALS IN HEALTH EDUCATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Contemporary principles, methods, objectives and functions of health sciences. Teaching techniques and curriculum design for school health programs.		
H S 4040	PRINCIPLES OF PUBLIC HEALTH (3) To serve as an orientation course for those interested in public health work; to update the student to the most recent public health techniques in vital statistics; epidemiological studies, environmental information, public health as an instrument for social change. The course also examines the future of public health.	3	3
H S 4050	CONTEMPORARY ISSUES IN HEALTH EDUCATION (3) Analyze current development, trends, and controversies in health education. Examine issues affecting the health educators in various work settings including public health, occupational health, safety and school health, and higher education.	3	3
H S 4060	CURRENT INTERNATIONAL HEALTH ISSUES (3) Critical analysis and in-depth investigation of ongoing and controversial national and international health issues.	3	3
H S 4070	CURRENT HEALTH PROBLEMS OF SCHOOL CHILDREN (3) Designed to acquaint students with the recognition of the needs and health problems of school children. Referral procedures for treatment and follow-up.	3	3
H S 4080	METHODS OF TEACHING SEX EDUCATION (3) Acquaints students and teachers with current principles and methods of teaching human sexuality.	3	3
H S 4400	NUTRITION AND HEALTH FOR SCHOOL AGE CHILDREN K-12 (3) This course is designed to examine the principles of nutrition and their effects on the health of children grades K-12. Analyze current developments, trends, and controversies in nutrition. Discuss how nutrition issues affect the health educator and student in various areas including diet, exercise and disease.	3	3
H S 4420	DRUGS: PROMOTING RESPONSIBLE AND HEALTHY BEHAVIOR (3) An investigation into the disease concept of chemical dependency, early intervention, and prevention methods in the areas of drugs, alcohol, and tobacco. History of drugs, disease concept of drugs, effects of drugs on health, drugs relationship to violence will be discussed through practice teaching methods for grades K-12.	3	3

H S 4440	PERSONAL HEALTH AND WELLNESS FOR CHILDREN K-12 (3) Covers the social, emotional and physical components of wellness with a focus on personal assessment and tools to design a wellness plan for life. Students explore methods for promoting health in the elementary, junior high and high school classroom.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
H S 4500	DRIVER EDUCATION FIELD (3) Highway rules and regulations. Materials, methods, and procedures. Emphasis on behavioral changes. Use of dual control cars in traffic. Additional course fee. Prerequisite: Driver's license and consent of the department.	3	3
H S 4560	ADVANCED TRAFFIC SAFETY & INSTRUCTIONAL METHODS (3) Methods and techniques of range instruction for secondary school students. Instruction for multiple car programs. Practice in the use of dual control car emphasizing updated defensive driving techniques. Credit can not be given for both H&S 4560/356 and H&S 410. Prerequisite: Admission to the College of Education. Valid driver's license and consent of the department.	3	3
H S 4570	ADVANCED SAFETY EDUCATION (3) Investigation and research of the major areas of safety to include home safety, fire safety personal protection and fire arm safety, motor vehicle and pedestrian safety, natural/manmade disasters, recreational safety, occupational safety, and school safety.	3	3
H S 4600	CONSUMER HEALTH EDUCATION (3) In-depth analysis of why health consumers behave as they do and the economic costs of the health care system.	3	3
H S 4610	TEACHING METHODS IN ALCOHOL, TOBACCO AND DRUG EDUCATION (3) Overview of the alcohol, tobacco and drug problem in society. Special emphasis will be placed on classroom methods in drug use and abuse education.	3	3
H S 4620	CURRICULUM IN HEALTH EDUCATION (3) Analyzes the significance of current trends in curriculum theory and design; develops objectives, content, learning approaches, resource teaching-learning materials, and evaluation as components of a curriculum guide.	3	3
H S 4630	COMMUNITY HEALTH (3) Foundation of community health. Strategies for community programs and health care delivery system.	3	3

H S 4750	FIELD EXPERIENCE IN HEALTH /6 (6) Volunteer service in a self-chosen health care agency with direct supervision from the course instructor and health care agency supervisor. Seminar meets one-hour each week. Eight-five hours of volunteer service are required. Prerequisite: H&S 2250/225 and Consent of Department	6	6
H S 4800	SAFETY EDUCATION AND PREVENTION OF INJURIES (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Investigation and research of the major areas of safety and injury prevention to include the areas of motor vehicle, pedestrian, home, personal protection, firearm, recreation, fire, school, natural/man-made disasters, and occupational hazards. Prerequisites: Consent of department.		
H S 4810	DRIVER TASK ANALYSIS (3) Emphasis on the thought process to learn, adapt, analyze and apply highway rules and regulations to all driving situations and conditions. This course cannot be used as an elective in the graduate physical education program. Prerequisites: Valid driver's license, consent of department.	3	3
H S 4820	TEACHING METHODS IN THE DRIVER EDUCATION CLASSROOM (3) Methods, materials, and procedures for teaching driver education content to school students in the classroom. This class cannot be used as an elective in the graduate physical education program. Prerequisites: Valid driver's license and consent of department.	3	3
H S 4830	LABORATORY INSTRUCTION AND EMERGENCY EVASIVE DRIVING SKILLS (3) Laboratory experience under the instruction of a qualified driver education teacher in driving simulation, multiple car programs, and on-street teaching. Classroom instruction will include advanced driving situations and emergency evasive driving. This class cannot be used as an elective in the graduate physical program. Prerequisites: Valid driver's license, consent of department.	3	3
H S 5010	INTRODUCTION TO MOOD-MODIFYING SUBSTANCES (3) A broad historical and cultural overview of attitudes towards drug abuse; an investigation into the disease concept of chemical dependency; early intervention and prevention methodology are studied.	3	3

H S 5020	HIV/AIDS AND OTHER STD ISSUES (3)	3	3
	Current issues in HIV/AIDS and other STDs will be explored and discussed. Focus will be teaching young adults the facts of these diseases, promoting healthy relationships, and responsible sexual behavior. Discussion will also be introduced on the implications of these diseases in the world today and the future for young adults.		
H S 5030	CONTEMPORARY METHODS AND MATERIALS IN HEALTH EDUCATION (3)	3	3
	Contemporary principles, methods, objectives and functions of health sciences. Teaching techniques and curriculum design for school health programs.		
H S 5040	PRINCIPLES OF PUBLIC HEALTH (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	To serve as an orientation course for those interested in public health work; to update the student to the most recent public health techniques in vital statistics; epidemiological studies, environmental information, public health as an instrument for social change. The course also examines the future of public health.		
H S 5050	CONTEMPORARY ISSUES IN HEALTH EDUCATION (3)	3	3
	Analyze current development, trends, and controversies in health education. Examine issues affecting the health educators in various work settings including public health, occupational health, safety and school health, and higher education.		
H S 5060	CURRENT INTERNATIONAL HEALTH ISSUES (3)	3	3
	Critical analysis and in-depth investigation of ongoing and controversial national and international health issues.		
H S 5070	CURRENT HEALTH PROBLEMS OF SCHOOL CHILDREN (3)	3	3
	Designed to acquaint students with the recognition of the needs and health problems of school children. Referral procedures for treatment and follow-up.		
H S 5080	METHODS OF TEACHING SEX EDUCATION (3)	3	3
	Acquaint students and teachers with current principles and methods of teaching human sexuality.		
H S 5400	NUTRITION AND HEALTH FOR SCHOOL AGE CHILDREN K-12 (3)	3	3
	This course is designed to examine the principles of nutrition and their effects on the health of children grades K-12. Analyze current developments, trends, and controversies in nutrition. Discuss how nutrition issues affect the health educator and student in various areas including diet, exercise and disease.		

H S 5420	DRUGS: PROMOTING RESPONSIBLE AND HEALTHY BEHAVIOR (3) An investigation into the disease concept of chemical dependency, early intervention, and prevention methods in the areas of drugs, alcohol, and tobacco. History of drugs, disease concept of drugs, effects of drugs on health, drugs relationship to violence will be discussed through practice teaching methods for grades K-12	3	3
H S 5440	PERSONAL HEALTH AND WELLNESS FOR CHILDREN K-12 (3) Covers the social, emotional and physical components of wellness with a focus on personal assessment and tools to design a wellness plan for life. Students explore methods for promoting health in the elementary, junior high and high school classroom.	3	3
H S 5500	DRIVER EDUCATION LECTURE AND FIELD /4 (3) Highway rules and regulations. Materials, methods, and procedures. Emphasis on behavioral changes. Use of dual control cars in traffic. Can not be used as an elective in the graduate physical education program. Additional course fee.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Driver's license and consent of the instructor.		
H S 5560	ADVANCED TRAFFIC SAFETY & INSTRUCTIONAL METHODS (3) Methods and techniques of range instruction for secondary school students. Instruction for multiple care programs. Practice and use of dual control car emphasizing updated defensive driving techniques. Credit cannot be given for H S 356G and H S 356 or 410. This course cannot be used as an elective in the graduate physical education program. Prerequisite: Admission to the College of Education. Valid driver's license and consent of the department	3	3
H S 5570	ADVANCED SAFETY EDUCATION (3) Investigation and research of the major areas of safety to include home safety, fire safety, personal protection and fire arm safety, motor vehicle and pedestrian safety, natural/manmade disasters, recreational safety, occupational safety and school safety. This course cannot be used as an elective in the graduate physical education program. Prerequisite: Valid driver's license and consent of the department.	3	3
H S 5600	CONSUMER HEALTH EDUCATION (3) In-depth analysis of why health consumers behave as they do and the economic costs of the health care system.	3	3

H S 5610	TEACHING METHODS IN ALCOHOL, TOBACCO AND DRUG EDUCATION (3) Overview of the alcohol, tobacco and drug problem in society. Special emphasis will be placed on classroom methods in drug use and abuse education.	3	3
H S 5620	CURRICULUM IN HEALTH EDUCATION (3) Analyzes the significance of current trends in curriculum theory and design; develops objectives, content, learning approaches, resource teaching-learning materials and evaluation as components of a curriculum guide.	3	3
H S 5630	COMMUNITY HEALTH (3) Foundation for community health. Strategies for community programs and health care delivery system.	3	3
H S 5800	SAFETY EDUCATION AND PREVENTION OF INJURIES (3) Investigation and research of the major areas of safety and injury prevention to include the areas of motor vehicle, pedestrian, home, personal protection, firearm, recreation, fire, school, natural/man-made disasters, and occupational hazards. Prerequisites: Consent of department.	3	3
H S 5810	DRIVER TASK ANALYSIS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Emphasis on the thought process to learn, adapt, analyze and apply highway rules and regulations to all driving situations and conditions. This course cannot be used as an elective in the graduate physical education program. Prerequisites: Valid driver's license, consent of department.		
H S 5820	TEACHING METHODS IN THE DRIVER EDUCATION CLASSROOM (3) Methods, materials, and procedures for teaching driver education content to school students in the classroom. This class cannot be used as an elective in the graduate physical education program. Prerequisites: Valid driver's license and consent of department.	3	3

H S 5830	LABORATORY INSTRUCTION AND EMERGENCY EVASIVE DRIVING SKILLS (3) Laboratory experience under the instruction of a qualified driver education teacher in driving simulation, multiple car programs, and on-street teaching. Classroom instruction will include advanced driving situations and emergency evasive driving. This class cannot be used as an elective in the graduate physical program. Prerequisites: Valid driver's license, consent of department.	3	3
H S 5980	SPECIAL TOPICS IN HEALTH AND SAFETY (1-3) Issues and problems that have a high degree of contemporary significance in a specific area of health and/or safety.	1	1
H S 5988	WORKSHOP IN HEALTH AND SAFETY (1-3) Designed for teachers to study selected contemporary issues, trends, and problems in the field of health and/or safety.	1	1
H S 5990	INDEPENDENT STUDY (1-3) Independent research on special projects; offered with special consideration for those holding the baccalaureate degree and seeking health certification.	1	1
H S 5995	SEMINAR IN HEALTH AND SAFETY (1-3) This course is designed to study pertinent issues or topics in an area of health and safety. Topics may change based upon relevance and need.	1	1

Health Sciences (H SC)

Course	Course Description	Credit Hrs.	Contact Hrs.
H SC 1104	MEDICAL TERMINOLOGY (3) A study of medical terms used in health communications, quality assurance programs, health research, and health data classification systems. This course also provides an introduction to terms related to anatomy, physiology and disease processes of the human body. Prerequisites: ENG 1280/128	3	3
H SC 2150	INTRODUCTION TO HEALTH PROFESSIONS (3) An overview of health care delivery systems including roles, functions, and educational preparation of health professionals, structure of health care organizations, and societal influences. Includes observations at health care settings.	3	3

H SC 2190	INTRODUCTION TO NUTRITION (3) Study of nutrients, their function, food sources, and utilization. Current issues in nutrition explored. Based on adult needs and the needs of individuals throughout the life cycle. Prerequisites: CHEM 1050/105 or CHEM 1550/155	3	3
H SC 2210	LEGAL ASPECTS OF HEALTH CARE (2) Introduction to law as it relates to health care. Review of United States legal system. Malpractice issues and patients' rights emphasized.	2	2
H SC 2215	COMPUTER APPLICATIONS FOR ALLIED HEALTH PROFESSIONALS (3) Computer applications as applied to allied health professions. Concepts in the use of word processing, spread sheets, databases, and graphs will be integrated with the health care professions.	3	3
H SC 2220	PERSONAL HEALTH AND WELLNESS (2) An overview of wellness concepts and theories from interdisciplinary perspectives. Students will plan and implement wellness activities from a holistic approach for individuals, family groups and communities. This course is designed to help students develop skills, attitudes, beliefs, and habits by providing learning experiences that will assist them in achieving an optimal level of wellness through self-responsibility. The course includes an activity component which involves concurrent registration in a physical education course worth one credit hour. Credit will not be given for both H SC 2220/220 and HPR 1200/220. Co-requisite: Select one: P E 1030/103; P E 1040/104; P E 1060; P E 1170/117; P E 1190/119; P E 1200/120; P E 1230/123.	2	2
H SC 2250	HEALTH CARE ETHICS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Health ethics is designed to facilitate exploration of ethical theory as a framework for professional judgment and decision making. Ethical theory will be applied in examination of ethical dilemmas frequently encountered in the health professions. Credit not given for both NURS 2275/250 and H SC 2250/250.		
H SC 2255	DIMENSIONS OF SPIRITUALITY (3) The concept of spirituality as a dimension of personal well being is examined as a lifelong developmental process which involves the human capacity of selftranscendence through the experience of a higher power. Tools and resources for spiritual growth are identified and utilized in developing and implementing a plan for personal spiritual growth.	3	3

H SC 2265	ALTERNATIVE HEALTH CARE (3) This course is designed to investigate the various systems that make up alternative/complimentary medicine. The course is intended as an educational tool to acquaint students with alternative methods for the maintenance of good health and treatment of illness.	3	3
H SC 2299	INDEPENDENT STUDY (1-3) Independent health science project/research supervised by faculty. Course may be repeated under different topic up to 6 credit hours.	1	1
H SC 2350	DRUGS AND ALCOHOL IN SOCIETY (3) Examines the use of mind-altering drugs in selected societies around the world. Studies the neurobiology of drug effects on the brain. Looks at contemporary issues in the USA including the illicit drug trade, drugs in the criminal justice system, approaches to treatment, and the legalization debate. Interdisciplinary course co-taught by faculty in Health Sciences and Psychology. Prerequisites: PSYC 1100/141	3	3
H SC 3200	RESEARCH METHODS (3) This course is an introduction to the principles and strategies of scientific research in the health professions. The course covers the fundamentals of defining a research problem, designing a study, measuring variables, selecting a sample, analyzing data and critiquing published research. This is a writing intensive course. Prerequisites: ENG 1280/128 and H SC 3329/329 or PSYC 2080/231 or 4190/357; or MATH 1600/210 or consent of chairperson.	3	3
H SC 3310	HIV IN PEOPLE OF COLOR (3) This is a survey course looking at the impact of HIV on minority populations. This course will examine psychosocial issues, access to treatment, demographics and economic issues. Special populations such as teenagers, elders and pregnant women will also be examined. Credit not given for both H SC 3310/310 and NURS 3310/310. This is a writing intensive course.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ENG 1280/128		
H SC 3311	SPECIAL TOPICS IN ALLIED HEALTH (1-3) Selected topics of current interest in the field of allied health. (Maybe repeated for a maximum of six hours; can only be taken once per semester.)	1	1

H SC 3312	CURRENT TOPICS IN THE HEALTH SCIENCES (3-9) Current topics of interest in the health sciences. May be repeated for a maximum of 9 semester credit hours. Can only be taken once per semester.	3	3
H SC 3313	HEALTH DISPARITIES (3) This course explores the role of race and ethnicity in relationship to health care access and quality of care; social factors contributing to mortality, longevity, and life expectancy; access and utilization of health services; theoretical framework for the development of policy and interventions to address disparities in health related outcomes. Prerequisite: ENG 1280/128 or consent of chairperson. Co-requisite: H SC 3319/319	3	3
H SC 3315	HEALTH BEHAVIOR (3) This course provides the fundamental concepts in social-behavioral sciences and health; social behavioral sciences factors identified as causes and antecedents to health; mechanisms for changes in health as well as outcomes of health interventions; prevailing health behavior change concepts and models; and methods for developing, implementing and evaluating health behavior interventions. Prerequisites: ENG 1280/128, ANTH 1010/101 or SOC 1250/125, PSYC 1100/141 or consent of chairperson.	3	3
H SC 3316	HUMAN DISEASES (3) This course provides the disease processes and functional disorders and their anatomical substrates. Major emphasis will be on the cardiovascular, neuromuscular and skeletal systems. Management of patients with medical, pediatric, psychiatric, orthopedic and neurological diagnosis will be presented. This is a senior capstone project course. Prerequisites: ENG 1280/128; BIOL 2021/221 or ZOOL 2050/250; PSLY 2040/204 or consent of chairperson.	3	3
H SC 3317	HEALTH PROMOTION (3) This course provides an overview of major health behavior models and theories that guide health promotion interventions. It will cover known threats to health, classic studies, examples of intervention strategies and issues in planning and evaluation of intervention programs.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: ENG 1280/128, BIOL 1080/108; or consent of department chair.		

H SC 3319	<p>INTRODUCTION TO PUBLIC HEALTH (3)</p> <p>Introduction to public health practice as a scientific discipline. Provides an understanding of the various approaches to public health practice; public health stakeholders; determinants of public health and the role of local, state, and federal public health agencies in protecting the community's health; ecological overview of the collaboration by local, state, federal and international public agencies to assure a healthy global community.</p> <p>Prerequisite: ENG 1280/128 and BIOL 1080/108 Co-requisite: H SC 3313 or consent of chairperson.</p>	3	3
H SC 3320	<p>HEALTH PROFESSIONS CLINICAL (3-15)</p> <p>Supervised professional clinical experience designed to provide opportunities to gain knowledge and develop skills in health-related professions. Performance evaluation and project required. May be repeated with different focus for a total of 15 hours.</p>	3	3
H SC 3321	<p>SERVICE LEARNING IN HEALTH (3)</p> <p>This course provides the link between theory and practice in authentic settings. The course expands the walls of the traditional classroom, providing opportunities for active cooperative learning, interdisciplinary projects, and multicultural experiences grounded in local community issues that enliven the teaching/learning processes.</p> <p>Prerequisite: ENG 1280/128</p>	3	3
H SC 3326	<p>AGING & HEALTH (3)</p> <p>This course provides an overview of the external and internal factors influencing the health status of older persons. Emphasis on the implications for health practitioners.</p> <p>Prerequisites: ENG 1280/128, BIOL 1080/108, CMAT 1130/113, 2030/203, 2210/221 or Consent of Chairperson</p>	3	3
H SC 3327	<p>BIOTERRORISM AND HEALTH (3)</p> <p>This course explores the impact of bioterrorism on health. It presents the various biological agents that can affect the quality of life and well-being of populations. It highlights illnesses and diseases that may be caused by biological agents and provide interventions to promote health and prevent complications.</p> <p>Prerequisites: ENG 1280/128, BIOL 1080/108, H SC 3316/316; or consent of department chairperson.</p>	3	3
H SC 3328	<p>CURRENT TRENDS IN INTERNATIONAL HEALTH (3)</p> <p>Major trends and issues with governments and international organizations. Explores the social determinants of health; the organization of health care systems, health care</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>financing, international health agencies and development; politics, globalization and health; and the public role in international health policy-making.</p> <p>Prerequisite: ENG 1280/128, BIOL 1080/108, ANTH 1010/101 or SOC 1010/101; or consent of department.</p>		
H SC 3329	<p>INTRODUCTION TO BIOSTATISTICS (3)</p> <p>This course covers various aspects of biostatistics in healthcare, including how they are used, the meaning of population and the process of sample selection, data summary, organization and data presentation using parametric and non-parametric statistics.</p> <p>Prerequisite: MATH 1200/162; or consent of chairperson.</p>	3	3
H SC 3375	<p>HEALTH POLICY AND ADMINISTRATION (3)</p> <p>Designed to introduce the student to the components and functions of health care systems. The main focus will be on the U.S. health care system, however approaches to health care in other countries will be discussed. Attention will be given to health care professionals interacting with health care systems. Health care administration will be examined in the context of economics, financing and health services research. Attention will also be given to the roles of health care professional's interaction with health care systems. Credit will not be given for both NURS 3375 and H SC 3375.</p> <p>Prerequisite: ENG 1280/128</p>	3	3
H SC 3450	<p>PUBLIC HEALTH COMMUNICATION (3)</p> <p>In this course, the fundamentals of public health communication will be explored. The focus will be on communication with public health stakeholders including policy makers, scientists, clinicians, students, the community and news media. The essential role that public health communication has in successful healthcare systems, health promotion and behavior change campaigns, telemedicine, medical decision making, caregiving, end-of-life communication and health information seeking will be examined.</p> <p>Prerequisites: ENG 1280/128; H SC 2150; H SC 2250/250; H SC 3319/319; H SC 3375/2375/375.</p>	3	3
H SC 4414	<p>ENTREPRENEURSHIP IN HEALTH CARE (3)</p> <p>Basic strategies and tools for entrepreneurial management with a focus on the health care industry.</p> <p>Prerequisite: ENG 1280/128, H SC 3319/319, H SC 3375/2375/375; or consent of chairperson.</p>	3	3

H SC 4418	BASIC EPIDEMIOLOGY FOR HEALTH CARE PROFESSIONALS (3) This introductory course explores the distribution and patterns of health events in	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	populations and the determinants that influence those patterns; epidemiological concepts, methods and tools epidemiologists use to study the distribution of health in populations as applied to both clinical and public health settings. Prerequisites: ENG 1280/128, BIOL 1080/108, H SC 3329/329, MATH 1200/162; or consent of department chairperson.		
H SC 4423	INTRODUCTION TO ENVIRONMENTAL HEALTH (3) This course covers various aspects of human health, including quality of life that are impacted by physical, chemical, biological, social and psychological factors in the environment; theory and practice of assessing, correcting, controlling and preventing those factors in the environment that adversely affect the health of present and future generations; ecosystems interaction, biological and chemical toxins in the general environment and relevant environmental regulations. Prerequisites: ENG 1280/128, College Biology; Ph S 1000/100, Ph S 1010/101, or Ph S 1100/110; CHEM 1050/105 or CHEM 1550/155; or consent of department.	3	3
H SC 4424	PROGRAM PLANNING AND EVALUATION (3) Exploration of evaluation of programmatic health needs and resources necessary for effective service delivery; planning and development of service-centered programs for populations across the health and illness continuum. This is a writing intensive course. Prerequisites: ENG 1280/128; H SC 3317/317 and H SC 3319/319.	3	3
H SC 4425	COMMUNITY HEALTH PRACTICUM (3) Integral part of professional education that complements and supports the learning process in the classroom. Provides students with opportunities to apply knowledge and skills in a variety of work situations and to test new approaches and techniques for problem solving. Course requires a minimum of 180 hours of fieldwork. This is a senior capstone project course. Prerequisites: H SC 3200/3322/322, H SC 3319/319, H SC 4418/3318/318; or consent of program coordinator.	3	3

Health Information Adm (HIA)

Course	Course Description	Credit Hrs.	Contact Hrs.
HIA 3000	<p>MEDICAL TERMINOLOGY (3)</p> <p>Introduction to the language used in health care. Emphasis on word components (combining forms, prefixes and suffixes) pronunciation and writing. H SC 104 may be substituted for HIA 200.</p>	3	3
HIA 3010	<p>INTRODUCTION TO US HEALTH CARE SYSTEMS AND HEALTH INFORMATION PROFESSIONS (3)</p> <p>Overview of health care systems in the US and the health information professions. Writing emphasis course. Credit not given for both HIA 150 and HIA 3010/201.</p>	3	3
HIA 3011	<p>ACUTE CARE HEALTH INFORMATION SYSTEMS LECTURE AND LABORATORY /6 (4)</p> <p>Study of the functions of the health information department. Manual and computerized systems are featured. Laboratory practice. Credit given for only one of the following: HIA 3011/205, HIA 203, HIA 208.</p> <p>Prerequisite: Consent of Department Chairperson</p>	4	6
HIA 3100	<p>ALTERNATIVE HEALTH CARE DELIVERY SYSTEMS (4)</p> <p>Current trends and developments in alternative health care delivery systems. Credit not given for both HIA 220 and HIA 3100/204.</p> <p>Prerequisite(s): Consent of department chairperson.</p>	4	4
HIA 3200	<p>CODING & CLASSIFICATION SYSTEMS (3)</p> <p>Principles of ICD-9-CM coding. Laboratory practice. Credit not given for both HIA 224 and HIA 3200/207.</p> <p>Prerequisite: ZOOL 2050/250, PSLY 2040/204, HIA 3000/200. Prerequisite or co-requisite: HIA 3300/209 or consent of department chairperson.</p>	3	3
HIA 3300	<p>CLINICAL MEDICINE I (3)</p> <p>Introduction to the clinical aspects of selected medical conditions and diseases, including diagnostic procedures, clinical course, therapy, pharmacology and outcomes. Credit not given for both HIA 316 and HIA 3300/209.</p> <p>Prerequisite: ZOOL 2050/250, PSLY 2040/204, HIA 3000/200 or consent of department chairperson.</p>	3	3

HIA 3400	COMPUTERS IN HEALTH CARE (3) Fundamentals of computers in health information management. Includes basic hardware and software as well as an overview of programming. Introduction to health information applications along with security and privacy. Features advanced level of Excel to solve	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	health information problems. Credit not given for both HIA 332 and HIA 3400/210. Prerequisite: HIA 1000/107 or consent of the department chairperson.		
HIA 3500	HEALTH CARE STATISTICS LECTURE AND LABORATORY /5 (3) Health care statistics, reporting requirements; definitions and formulae; data collection, analysis and presentation. Introduction to SPSS. Prerequisite: Math 1200/162 and 1600/210; HIA 3011/205 or consent of the department chairperson	3	5
HIA 3600	LEGAL ASPECTS AND ETHICS IN HEALTH INFORMATION ADMINISTRATION (3) Federal and state legislation and regulations for health information systems with a focus on privacy/security and confidentiality; negligence, malpractice and liability; access to health information and advance directives. Ethical situations in health information management. Prerequisite: Consent of department chairperson	3	3
HIA 3810	HEALTH INFORMATION MANAGEMENT I (3) An in-depth, practical analysis of issues faced by managers as they relate to the basic management functions: directing and controlling. The course will introduce the concepts of quality improvement, utilization review and risk management. A case method approach is utilized with problem-solving and decision-making activities. Numerous assignments, including projects, are given that require critical thinking skills. Prerequisite(s): Senior standing in HIA or consent of department chairperson.	3	3
HIA 3900	CODING & REIMBURSEMENT SYSTEMS (4) Introduction to HCPCS used for hospital outpatient and physician office billing. Emphasis on CPT coding. Prerequisite: HIA 3200/207	4	4

HIA 3910	TECHNICAL PROFESSIONAL PRACTICE EXPERIENCE FIELD/ MINIMUM OF 160 CLOCK HOURS. (3) Application, under supervision, of technical aspects of health information management in an acute care and an alternative health care setting. Credit not given for both HIA 250 and HIA 3910/217. Prerequisite: All junior level health information courses. Consent of department chairperson.	3	3
HIA 3990	INDEPENDENT STUDY (1-3) Independent health information project/research supervised by faculty.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
HIA 4010	HEALTH INFORMATION MANAGEMENT II (5) An in-depth, practical analysis of issues faced by managers as they relate to the basic management functions: directing and controlling. The course will also cover the theory, development, implementation and management of quality improvement, utilization review and risk management. A case method approach is utilized with problem-solving and decision-making activities. Numerous assignments including projects are given that require critical thinking skills. Prerequisite(s): Senior standing in HIA or consent of department chairperson.	5	5
HIA 4020	HEALTH CARE FINANCE (2) This course provides an introduction to accounting and financial principles used in healthcare. Topics include: budgeting, cost containment, strategic planning and financial analysis. Prerequisites: Senior standing or consent of department chair.	2	2
HIA 4100	EDUCATION AND TRAINING (2) Principles of education and in-service education. Credit not given for both HIA 360 and 4100/308. Prerequisite: Senior standing or consent of the department chairperson	2	2
HIA 4200	RESEARCH IN HEALTH CARE AND HEALTH INFORMATION MANAGEMENT (3) Introduction to basic research and statistics; experience with SPSS. Credit will not be given for both HIA 370 and HIA 4200/309. Prerequisites: Senior standing. Consent of the department chairperson	3	3

HIA 4300	HEALTH INFORMATION STANDARDS, REGULATORY REQUIREMENTS AND REIMBURSEMENT (3) Study of health information services compliance with regulatory compliance and accreditation standards. Overview of reimbursement methods. Prerequisites: HIA 3100/204, HIA 3011/205, HIA 3200/207, HIA 3800/214, HIA 3900/216 or consent of the department chairperson	3	3
HIA 4400	HEALTH CARE ORGANIZATION INFORMATION SYSTEMS (5) Study of systems analysis and design in health care facilities with emphasis on the computerized patient record. Prerequisite(s): HIA 3400/210 or consent of department.	5	5
HIA 4600	MANAGEMENT PROFESSIONAL PRACTICE EXPERIENCE /FIELD MINIMUM 160 CLOCK HOURS. (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Student is assigned to a health care organization to work under the direction of an appropriate manager to gain practical knowledge in management. Credit not given for both HIA 350 and HIA 4600/314. Prerequisite: Completion of all health information administration courses or consent of department chairperson.		
HIA 4700	REGISTERED HEALTH INFORMATION ADMINISTRATOR EXAM PREPARATION /6 LECTURE AND LABORATORY (3) Review of health information administration content areas. Strategies for preparation for the national credentialing examination. Comprehensive examination required. Prerequisite: Consent of the department chairperson.	2	2
HIA 4900	DATA ANALYTICS FOR RESEARCH (2) Statistical analysis of clinical/management data: Applying knowledge of database querying data exploration and data mining techniques. Prerequisite(s): HIA 3810	2	2

History (HIST)

Course	Course Description	Credit Hrs.	Contact Hrs.
HIST 1092	ILLINOIS HISTORY CERTIFICATION EXAMINATION REVIEW (1) Preparation and practice for the Illinois State Teacher Certification Examination in Social Science. Credit may not be counted toward graduation requirements. Should be taken within a year prior to student teaching. Waived if passed Illinois content area Exam. Co-requisite: HIST 4630/363.	1	1
HIST 1099	FRESHMAN SEMINAR IN HISTORY (1) Introduction to the expectations of the university. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life. Prerequisites: Newly admitted freshman and transfer students in history secondary education (HSST) and history (HIST) with fewer than 30 credit hours.	1	1
HIST 1200	WORLD HISTORY I: INTRODUCTION TO THE ANCIENT & MEDIEVAL WORLDS (3) Civilizations of the ancient and medieval world.	3	3
HIST 1210	WORLD HISTORY II: CREATING THE MODERN WORLD (3) The Western world and its relationships with Africa, the Americas, and Asia in the early modern and modern periods.	3	3
HIST 1300	UNITED STATES HISTORY TO 1877 (3) Political, economic and intellectual development from 1607 through Reconstruction.	3	3
HIST 1310	UNITED STATES HISTORY SINCE 1877 (3) Political, economic, social and intellectual developments since Reconstruction. (Enrichment core course.) IAI: S2 901, HST 912	3	3
HIST 1710	INTRODUCTION TO LATIN AMERICAN HISTORY (3) A survey of Latin American history from pre-Columbian times to the present.	3	3

HIST 1840	AFRICAN CIVILIZATION (3) Survey of African history from antiquity to modern times with emphasis on African traditional societies and their transition and transformation into the present century. (Credit may not be used for either a major or a minor in history, but may be used to satisfy the elective course requirements for the major or minor in African American Studies.)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
HIST 2100	INTRODUCTION TO ISLAM (3) Introduction to Islam as religion, culture, and social force from its origin to the present.	3	3
HIST 2120	THE CITY IN AMERICAN HISTORY (3) Analysis of origins and development of cities. Social impact of the city on American life.	3	3
HIST 2160	MULTICULTURAL AMERICA (3) The historical contributions and interactions of the wide spectrum of racial, ethnic, religious, and other minorities as a key element in the American experience. Writing emphasis course.	3	3
HIST 2200	KEY PROBLEMS IN WORLD HISTORY (3) Significant political, social, and economic world problems related to Non-Western and Third World Cultures. (Enrichment core course.) IAI: S2 905N	3	3
HIST 2220	INTRODUCTION TO HISTORICAL THOUGHT AND METHODS (3) Introduction to the theories and methods historians use to research, write, and draw conclusions about the past. Seminar style format; topics vary each semester. Mid-program assessment test given for history majors in the class. Writing emphasis course.	3	3
HIST 2300	THE CARIBBEAN WORLD (3) The Caribbean islands from colonizations to the present and Central America since independence.	3	3
HIST 2320	SOUTH AMERICA (3) South America from the movements for independence to the present.	3	3

HIST 2330	INTRODUCTION TO THE MIDDLE AGES I (3) The early medieval world 300 to 1000 C.E. including the formation of late antique Mediterranean civilization, Germanic invasions, the Christianization of the West, Byzantium, the rise of Islam, Carolingian cultural achievement to the last major invasions of the Magyars and Vikings. May be taken after HIST 2340/234.	3	3
HIST 2340	INTRODUCTION TO THE MIDDLE AGES II (3) Medieval civilization 1000 - 1500 including the formation of national and papal	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	monarchies, "feudal" society, the Crusades, rise of universities, vernacular literature, Romanesque and Gothic art and architecture, the Silk Road to the Hundred Years' War. May be taken before HIST 2330/233.		
HIST 2460	WAR & PEACE IN MILITARY PERSPECTIVE (3) Causation, avoidance, and science of war in Western world history; militarism, pacifism, and their implications. Prerequisites: Consent of department.	3	3
HIST 2470	HISTORY OF ILLINOIS (3) History of the State of Illinois from pre-Columbian times to the present with special emphasis on contemporary Illinois through field trips. May substitute Geography 3015/315 to fulfill Illinois history program requirement in secondary teaching.	3	3
HIST 2500	REVOLUTIONS IN MODERN EUROPE (3) A comparative study of major periods of revolution in Europe from the 17th through the 20th centuries, including their impacts on politics, society, and culture.	3	3
HIST 2600	CAPITALISM AND LABOR IN EUROPE (3) The history of the development of capitalism and its impacts on labor, placing changes in Europe into a global context.	3	3
HIST 2650	ORIGINS OF CIVILIZATION (3) Origins and development of the great civilizations of the ancient world as revealed by archaeology. Credit not given for both HIST 2650/265 and ANTH 2220/265. IAI: S1 903	3	3

HIST 2720	AFRICAN AMERICAN HISTORY TO 1865 (3) A survey of African American history from classical African past to 1865. This course satisfies the elective course requirements for the African American Studies major or minor. Credit not given for both HIST 2720 and HIST 2710/271.	3	3
HIST 2730	AFRICAN AMERICAN HISTORY SINCE 1865 (3) A survey of African American history from 1865 to present. This course satisfies the elective course requirements for the African American Studies major and minor. Credit not given for both HIST 2730 and HIST 2710/271.	3	3
HIST 2830	SLAVERY IN WORLD HISTORY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Cross-cultural practices in Western and non-Western history, ancient and modern. (This course satisfies the elective course requirements for the African American Studies major or minor.)		
HIST 2840	AFRICA TO 1800 (3) A survey of African history from the origins of human societies in Africa to the impact of the slave trade, ca. 1800. Key themes will be state and empire formation, the spread of Islam, the impact of long distance trade, and the material and cultural bases of African societies. (This course satisfies the elective course requirements for the African American Studies major or minor.) IAI: S2 906N	3	3
HIST 2850	AFRICA SINCE 1800 (3) An overview of African history from the late precolonial period to the present. Main themes include the effects of the slave trade, state formation and Islamic revolutions, European colonialism, independence and nationalism, and contemporary Africa. (This course satisfies the elective course requirements for the African American Studies major or minor.) IAI: S2 907N	3	3

HIST 2930	<p>WORKSHOP IN WORLD PEACE ORGANIZATIONS (3)</p> <p>Study of world peace-keeping organizations from the 19th century through a workshop approach, based on the structure of the United Nations. Individual students will participate in Model UN conferences. May be repeated for a maximum of six hours, but may apply toward the major only once. Does not count as political science elective credit for Political Science majors, nor in general education. Credit not given for both POL 2930/293 and HIST 2930/293 during the same semester.</p> <p>Prerequisite: Consent of the instructor.</p>	3	3
HIST 2970	<p>SPECIAL TOPICS IN HISTORY (3)</p> <p>Analysis of special topics of history with emphasis on contemporary significance. May be repeated under different topics for a maximum of 9 credit hours.</p>	3	3
HIST 3555	<p>HONORS RESEARCH (3)</p> <p>Preparation and research of an original history thesis/project based on primary sources under faculty supervision.</p> <p>Prerequisites: Admission to the honors in the history major program. HIST 2220 and one 4000-level honors class at B or higher.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
HIST 3720	<p>ADVANCED STUDY ABROAD: SPECIAL TOPICS (3)</p> <p>Historical topics related to an approved university study abroad program. To be completed prior to participation in the study abroad program. May be repeated under different topics for a total of 6 credit hours. Cross-listed as SAB 4720/372.</p> <p>Prerequisites: Junior or senior status. Good academic standing and consent of department.</p>	3	3
HIST 4100	<p>WOMEN IN THE MIDDLE AGES (3)</p> <p>Topical and chronological survey of women in the Mediterranean and European world, with emphasis on their social, cultural and intellectual accomplishments. Special emphasis on realities and perceptions of the Judaic, Christian, and Islamic traditions.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3

HIST 4123	ORAL HISTORY THEORY AND PRACTICE (3) Training in oral history, with attention to the field's historical and theoretical development. Emphasis on the methodology of oral/video history in the context of public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews. Completed interviews will be offered to the University Archivist for possible inclusion in the CSU University Archives. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4150	HISTORY OF ISLAM IN WEST AFRICA (3) Islam as a religion and a social force that has continued to transform West Africa from the 7th century to the present. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4250	HISTORY OF AFRICAN PHILOSOPHY (3) History of debates in and on African philosophy by African, European, and American scholars since 1945. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4301	THE ERA OF THE FRENCH REVOLUTION (3) Background and development of the French Revolution.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.		
HIST 4302	HISTORY OF AFRICAN AMERICAN WOMEN (3) History of women with African descent from the enslavement period to the present. Emphasis on issues of racism and sexism in late 19th century and 20th century U.S. society with relation to the feminist, womanist, Civil Rights and Black Power movements. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

HIST 4303	<p>RENAISSANCE AND REFORMATION (3)</p> <p>Aspects of 15th and 16th century political and cultural history.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4305	<p>THE CIVIL RIGHTS MOVEMENT (3)</p> <p>The African American struggle for civil rights since 1900 with an emphasis on the period since World War II.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4307	<p>THE EUROPEAN WORLD IN THE 20TH CENTURY (3)</p> <p>Europe from 1914 to the present.</p> <p>Prerequisites: Junior standing or successful completion of at least one course with a grade of C or higher.</p>	3	3
HIST 4308	<p>THE VIETNAM WAR (3)</p> <p>The causes and effects of the Vietnam War with an emphasis on the United States and its role from World War II to 1975.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4311	<p>RACE AND LABOR IN THE UNITED STATES (3)</p> <p>Race and race relationships through labor struggle and the formation of the United States working-class. Central focus on working women and men of color from the midnineteenth through the twentieth century.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
HIST 4312	<p>THE NINETEENTH CENTURY IN EUROPE (3)</p> <p>Europe during the 19th Century.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3

HIST 4313	HISTORY OF CHRISTIANITY (3) Origin of Christianity, its spread, development of doctrines and practices, movements within the church, various denominations. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4314	THE CIVIL WAR AND RECONSTRUCTION 1850-1876 (3) Events of the Civil War and Reconstruction. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4317	FORGING OF MODERN AMERICA 1877-1932 (3) The Gilded Age, Progressive Era, World War I, the 1920s and the Great Depression. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4319	THE AMERICAN REVOLUTION AND THE ESTABLISHMENT OF THE REPUBLIC 1763-1815 (3) Independence movement and the formation of a new nation. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4320	AMERICAN COLONIAL HISTORY (3) Culture and institutions of the American Colonies. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4322	HISTORY OF THE UNITED STATES 1815-1850 (3) Jacksonian America. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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HIST 4323	<p>THE IMMIGRANT EXPERIENCE (3)</p> <p>Immigration and migration as factors in United States history.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4324	<p>HISTORY OF THE UNITED STATES 1945-PRESENT (3)</p> <p>History of the United States after World War II. Major themes include the Cold War, the Civil Rights Movement, the Vietnam War, Watergate and the Reagan years.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4326	<p>AMERICAN FOREIGN POLICY (3)</p> <p>Development, impact, and interpretation of American foreign policy.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4327	<p>THE ANCIENT NEAR EAST AND GREECE (3)</p> <p>Civilizations in the ancient Near East and Greece.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4328	<p>WORLD CIVILIZATIONS 500 BC - 1500 AD (3)</p> <p>Competition for world domination among civilizations originating in Western Europe, the Middle East, China, and India.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4329	<p>HISTORY OF ROMAN CIVILIZATION (3)</p> <p>Roman civilization under the Republic and Empire.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4331	<p>TUDOR/STUART ENGLAND (3)</p> <p>English history from 1485 to 1714.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.		
HIST 4339	<p>WOMEN IN POLITICS (3)</p> <p>The role of women in the political arena with focus on grass roots and elite politics at the national and international level within historical context. Cross listed as POL 3370/337. Credit not given for both HIST 4390/339 and POL 3370/337.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4343	<p>THE MEDIEVAL WORLD: SPECIAL TOPICS (3)</p> <p>Advanced and specialized topics on the social, cultural, political, intellectual, and religious history of the Middle Ages. May be taken more than once for credit if topics are different.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4344	<p>HISTORY OF EASTERN EUROPE (3)</p> <p>Eastern Europe politics and culture from the seventh century to the present.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4348	<p>HISTORY OF THE OCCULT (3)</p> <p>Occultist beliefs and practices from Graeco-Roman Egypt through the 20th century. Historical interconnections with mythology, religion, theology, philosophy, and psychology in various cultures.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4352	<p>THE CHICAGO EXPERIENCE (3)</p> <p>A variety of classroom activities and traditional learning resources are supplemented by direct investigation of key aspects of the city.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3

HIST 4353	HISTORY OF EAST AFRICA (3) Analysis of major events caused by the migration of the Bantu, Arabs, Indians, Chinese, and peoples of the Pacific Ocean islands to East Africa and the creation of Swahili Civilization representing the first great melting pot culture in Africa. Prerequisites: Junior standing or successful completion of at least one history course with	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	a grade of C or higher.		
HIST 4354	HISTORY OF SOUTH AFRICA (3) A survey of the Bantu civilizations of the African Sub-Continent, their contacts with European civilization in the 17th century and the creation of a multiracial society in the 20th century. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4355	MODERN AFRICA (3) A detailed look at Africa since World War I, especially the impact of colonialism the rise of African nationalist movements and struggles for independence, and changes in Africa since independence. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4356	AFRICA AND AFRICANS IN THE ATLANTIC WORLD (3) Examination of the history of diverse cultures in the Atlantic World with an emphasis on Africans on the continent of Africa and in the Americas as well as the system of racism that emerged from the consequences of the slavery. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4357	HISTORY OF HAITI (3) History of Hispaniola from 1492 to the present with a particular focus on the first successful slave insurrection. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

HIST 4359	RUSSIA UNDER THE CZARS (3) From the rise of the Romanovs in 1613 to their fall in the revolutions of 1917. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4360	HISTORY OF THE SOVIET UNION 1917-1991 (3) The Soviet Union since the 1917 Revolution with emphasis on Leninist-Stalinist policy. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
HIST 4362	THE WORLD SINCE 1945 (3) Analysis of major social, political, economic, military, demographic, and cultural trends and events in the world since the end of World War II. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4363	METHODS OF TEACHING SOCIAL STUDIES AT THE SECONDARY LEVEL (GRADES 6-12) /FIELD (3) Methods of teaching geography, history, and other social studies in high school grades 9-12 and middle school grades 6-8. Thirty clock hours of field experience. This course fulfills senior thesis/capstone course requirement. Prerequisite: Admission to College of Education; ED 4500 or ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306) and HIST 1092/092 and CAS 2630/363.	3	3
HIST 4364	COLONIAL LATIN AMERICA (3) From the pre-Columbian Indian civilizations through the European discovery and conquest to the movements for independence. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

HIST 4369	FIELD INTERNSHIP (3-12) Special assignment or research projects in museums, schools, libraries, or programs which would involve students in practical applications of historical knowledge or research. Must complete 25 clock hours per credit hour. May be repeated for credit up to a maximum of 12 semester hours. Prerequisite: Junior standing, 2.5 GPA., completion of 9 semester hours of history, and consent of the instructor.	3	3
HIST 4371	MEXICO SINCE INDEPENDENCE (3) Mexico from independence to the present with a major focus on U.S. Mexican relations. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4375	STUDENT TEACHING AND SEMINAR /FIELD (6) Off-campus placement in secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit not given for	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	both HIST 270 and 4750/375. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in all history courses, in all supportive courses, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.		
HIST 4379	SPAIN SINCE 1492 (3) Spain from the completion of the Reconquista through the rise and fall of its New World empire to the present. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3

HIST 4381	HISTORY OF RELIGION (3) Historical study of world religions, their origins and development. Includes discussion of religions originating in India (Hinduism, Jainism, Buddhism, Sikhism); the Far East (ancestor worship, Chinese Taoism, Confucianism, Japanese Shinto); and Middle East (Judaism, Christianity, Islam). Native African, Native American and Syncretic Caribbean religions are also discussed. (This course counts as a non-western course for Teacher Certification). Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4383	THE BLACK CHURCH IN AMERICA (3) History of the origins and development of the major religious movements among Black Americans. (This course satisfies the elective course requirements for the African American Studies major or minor). Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4384	WEST AFRICA (3) History of the West African sub region, with special emphasis on the Niger River Valley civilizations of Ghana, Mali, Songhai, Ashanti, Yoruba, and Dahomey, the ancestral origins of African Americans, the impact of the desiccation of the Sahara Desert, and the origins and impact of the great Bantu migrations. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4386	ANCIENT AFRICA (3) An understanding and appreciation of Africa before 1500 AD and the discovery of the new	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	world, and on the eve of the breakdown of its civilizations under the impact of this discovery and Islam. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.		

HIST 4387	<p>KEY PROBLEMS IN AFRICAN HISTORY (3)</p> <p>African from ancient to modern times with emphasis on the origins of human civilization, the Saharan factor in African history, the impact of Sudanese and Bantu migrations, and evaluation of foreign interventions and their legacies, state formation and problems of development and governance. Emphasis on the theoretical and methodological issues of the debate on and in African history.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4389	<p>READINGS AND RESEARCH IN AFRICAN AMERICAN HISTORY (3)</p> <p>Advanced readings and research in African American history. African American historiography, theory, research methods and methodology including examination of primary source materials, cultural analysis, interview skills, and archival research involving African background, enslavement, African American social and cultural experience in the United States. (This course satisfies the elective course requirements for the African American Studies major or minor).</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4394	<p>INDEPENDENT STUDY IN HISTORY (1-3)</p> <p>Staff-directed study in specials topics. May be repeated once under a different topic for one to three additional credit hours.</p> <p>Prerequisite: History major, junior standing or above, and consent of the department.</p>	1	1
HIST 4399	<p>SPECIAL TOPICS IN HISTORY (3)</p> <p>Analysis of particular historical problems that have a high degree of contemporary significance.</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.</p>	3	3
HIST 4510	<p>THE AFRICAN AMERICAN IN TWENTIETH CENTURY UNITED STATES (3)</p> <p>Impact of the Afro-American on contemporary life. (This course satisfies the elective course requirements for the African American Studies major or minor.)</p> <p>Prerequisites: Junior standing or successful completion of at least one history course with</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	a grade of C or higher.		

HIST 4555	HONORS COLLOQUIUM (3) Completion of research and writing of the honors thesis/project. Discussion on the writing process and problems in historical research and sharing of drafts and ideas with peers. Prerequisites: Admission to the honors in the history major program and HIST 3555 at B or higher.	3	3
HIST 4810	HISTORY OF RELIGION (3) Historical study of world religions, their origins and development. Includes discussion of religions originating in India (Hinduism, Jainism, Buddhism, Sikhism); the Far East (ancestor worship, Chinese Taoism, Confucianism, Japanese Shinto); and Middle East (Judaism, Christianity, Islam). Native African, Native American and Syncretic Caribbean religions are also discussed. (This course counts as a non-western course for Teacher Certification. Prerequisite: Consent of the department.	3	3
HIST 4900	COLONIALISM, NATIONALISM AND INDEPENDENCE IN THE THIRD WORLD (3) Political, economic and cultural changes brought about in traditional society by the imposition of Western rule, leading to the rise of nationalism and successful independence movements. India, Indochina, Kenya, and Nigeria will be used as case studies. Prerequisites: Junior standing or successful completion of at least one history course with a grade of C or higher.	3	3
HIST 4950	HISTORY SEMINAR (3) Seminar conducted on a specific historical topic. Students will write primary source based research paper. This course fulfills senior thesis/capstone course requirement. Prerequisites: HIST 2220 or HIST 222 and History majors and minors (HIST, HSST, TCHI).	3	3
HIST 5123	ORAL HISTORY THEORY AND PRACTICE (3) Training in oral history, with attention to the field's historical and theoretical development. Emphasis on the methodology of oral/video history in the context of public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews. Completed interviews will be offered to the University Archivist for possible inclusion in the CSU University Archives. Prerequisites: HIST 2220/220 or HIST 5400/400 or admission to LIMS certification program.	3	3
HIST 5150	HISTORY OF ISLAM IN WEST AFRICA (3) Islam as a religion and a social force that has continued to transform West Africa from the	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	7th century to the present. Prerequisites: Consent of Department.		
HIST 5250	HISTORY OF AFRICAN PHILOSOPHY (3) History of debates in and on African philosophy by African, European, and American scholars since 1945. Prerequisites: Consent of Department.	3	3
HIST 5301	THE ERA OF THE FRENCH REVOLUTION (3) Background and development of the French Revolution. Prerequisite: Consent of the department.	3	3
HIST 5302	HISTORY OF AFRICAN AMERICAN WOMEN (3) History of women with African descent from the enslavement period to the present. Emphasis on issues of racism and sexism in late 19th century and 20th century U.S. society with relation to the feminist, womanist, Civil Rights and Black Power movements.	3	3
HIST 5303	RENAISSANCE AND REFORMATION (3) Aspects of 15th and 16th century political and cultural history. Prerequisite: Consent of the department.	3	3
HIST 5305	THE CIVIL RIGHTS MOVEMENT (3) The African American struggle for civil rights since 1900 with an emphasis on the period since World War II. Prerequisite: Consent of department.	3	3
HIST 5307	THE EUROPEAN WORLD IN THE 20TH CENTURY (3) Europe from 1914 to the present. Prerequisite: Consent of the department.	3	3
HIST 5308	THE VIETNAM WAR (3) The causes and effects of the Vietnam War with an emphasis on the United States and its role from World War II to 1975. Prerequisite: Consent of the department.	3	3

HIST 5310	WOMEN IN THE MIDDLE AGES (3) Topical and chronological survey of women in the Mediterranean and Euro-pean world,	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	with emphasis on their social, cultural and intellectual accomplishments. Special emphasis on realities and perceptions of the Judaic, Christian, and Islamic traditions. Prerequisite: Consent of the department.		
HIST 5311	RACE AND LABOR IN THE UNITED STATES (3) Race and race relationships through labor struggle and the formation of the United States working-class. Central focus on working women and men of color from the midnineteenth through the twentieth century. Prerequisite: HIST 1310/131 or consent of department.	3	3
HIST 5312	THE NINETEENTH CENTURY IN EUROPE (3) Europe during the 19th century. Prerequisite: Consent of department.	3	3
HIST 5313	HISTORY OF CHRISTIANITY (3) Origin Christianity, its spread, development of doctrines and practices, movements within the church, various denominations.	3	3
HIST 5314	CIVIL WAR AND RECONSTRUCTION 1850-1876 (3) Events of the Civil War and Reconstruction. Prerequisite: Consent of the department.	3	3
HIST 5317	THE FORGING OF MODERN AMERICA (3) The Gilded Age, Progressive Era, World War I, the 1920s, and the Great Depression. Prerequisite: Consent of the department.	3	3
HIST 5319	THE AMERICAN REVOLUTION AND THE ESTABLISHMENT OF THE REPUBLIC, 1763-1815 (3) Independence movement and the formation of a new nation. Prerequisite: Consent of the department.	3	3

HIST 5320	AMERICAN COLONIAL HISTORY (3) Culture and institutions of the American colonies. Prerequisite: Consent of the department.	3	3
HIST 5322	HISTORY OF THE UNITED STATES 1815-1850 (3) Jacksonian America.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
HIST 5323	THE IMMIGRANT EXPERIENCE (3) Immigration and migration as factors in United States history. Prerequisites: HIST 1310/131 recommended or consent of department.	3	3
HIST 5324	HISTORY OF THE UNITED STATES 1945 - PRESENT (3) History of the United States after World War II. Major themes include the Cold War, the Civil Rights Movement, the Vietnam War, Watergate and the Reagan years. Prerequisite: Consent of department.	3	3
HIST 5326	AMERICAN FOREIGN POLICY (3) Development, impact, and interpretation of American foreign policy. Prerequisite: Consent of the department.	3	3
HIST 5327	THE ANCIENT NEAR EAST AND GREECE (3) Civilizations in the ancient Near East and Greece. Prerequisite: Consent of the department.	3	3
HIST 5328		3	3
HIST 5329	HISTORY OF ROMAN CIVILIZATION (3) Roman civilization under the Republic and Empire. Prerequisite: Consent of the department.	3	3

HIST 5331	TUDOR/STUART ENGLAND (3) English history from 1485 to 1714. Prerequisite: Consent of the department.	3	3
HIST 5343	THE MEDIEVAL WORLD: SPECIAL TOPICS (3) Advanced and specialized topics on the social, cultural, political, intellectual, and religious history of the Middle Ages. May be taken more than once for credit if topics are different. Prerequisites: Consent of Department	3	3
HIST 5344	HISTORY OF EASTERN EUROPE (3) Eastern European politics and culture from the seventh century to the present.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
HIST 5348	HISTORY OF THE OCCULT (3) Occultist beliefs and practices from Graeco-Roman Egypt through the 20th century. Historical interconnections with mythology, religion, theology, philosophy, and psychology in various cultures. Prerequisite: Consent of the Department.	3	3
HIST 5351	THE AFRICAN AMERICAN IN TWENTIETH CENTURY UNITED STATES (3) Impact of the Afro-American on contemporary life. Prerequisite: Consent of the department.	3	3
HIST 5352	THE CHICAGO EXPERIENCE (3) A variety of classroom activities and traditional learning resources are supplemented by direct investigation of key aspects of the city. Prerequisite: Consent of the department.	3	3
HIST 5353	HISTORY OF EAST AFRICA (3) Analysis of major events caused by the migration of the Bantu, Arabs, Indians, Chinese, and peoples of the Pacific Ocean islands to East Africa and the creation of Swahili Civilization representing the first great melting pot culture in Africa. Prerequisite: Consent of the department.	3	3

HIST 5354	HISTORY OF SOUTH AFRICA (3) A survey of the Bantu civilizations of the African Sub-Continent, their contacts with European civilization in the 17th century and the creation of a multiracial society in the 20th century. Prerequisite: HIST 2840/284 and 2850/285 recommended or consent of the department.	3	3
HIST 5355	MODERN AFRICA (3) A detailed look at Africa since World War I, especially the impact of colonialism the rise of African nationalist movements and struggles for independence, and changes in Africa since independence. Prerequisites: HIST 2840/284 and 2850/285 recommended or consent of the department.	3	3
HIST 5356	AFRICA AND AFRICANS IN THE ATLANTIC WORLD (3) Examination of the history of diverse cultures in the Atlantic World with an emphasis on	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Africans on the continent of Africa and in the Americas as well as the system of racism that emerged from the consequences of the slavery.		
HIST 5357	HISTORY OF HAITI (3) History of Hispaniola from 1492 to the present with a particular focus on the first successful slave insurrection. Prerequisites: HIST 1710/171 and 2300/230 recommended or consent of the department.	3	3
HIST 5359	RUSSIA UNDER THE CZARS (3) From the rise of the Romanovs in 1613 to their fall in the revolutions of 1917.	3	3
HIST 5360	HISTORY OF THE SOVIET UNION, 1917-1991 (3) The Soviet Union since the 1917 Revolution with emphasis on Leninist-Stalinist policy. Prerequisite: Consent of the department.	3	3
HIST 5362	THE WORLD SINCE 1945 (3) Analysis of major social, political, economic, military, demographic, and cultural trends and events in the world since the end of World War II. Prerequisite: Consent of the department.	3	3

HIST 5364	COLONIAL LATIN AMERICA (3) From the pre-Columbian Indian civilizations through the European discovery and conquest to the movements for independence. Prerequisite: Consent of the department.	3	3
HIST 5369	FIELD INTERNSHIP (3-12) Special assignment or research projects in museums, schools, libraries, or programs which would involve students in practical applications of historical knowledge or research. 25 Clock hours per credit hour. (May be repeated for credit up to a maximum of 12 semester hours.) Prerequisite: Consent of the instructor.	3	3
HIST 5371	MEXICO SINCE INDEPENDENCE (3) Mexico from independence to the present with a major focus on U.S. Mexican relations. Prerequisite: Consent of Department	3	3
HIST 5379	SPAIN SINCE 1492 (3) Spain from the completion of the Reconquista through the rise and fall of its New World	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	empire to the present. Prerequisite: Consent of Department.		
HIST 5381	HISTORY OF RELIGION (3) Historical study of world religions, their origins and development. Includes discussion of religions originating in India (Hinduism, Jainism, Buddhism, Sikhism); the Far East (ancestor worship, Taoism, Confucianism, Shinto); and Middle East (Judaism, Christianity, Islam). Native African, Native American and syncretic Caribbean religions are also discussed. Emphasis on non-Western and Third World religions. Prerequisite: Consent of the department.	3	3
HIST 5383	THE BLACK CHURCH IN AMERICA (3) History of the origins and development of the major religious movements among Black Americans. Prerequisite: Consent of the department.	3	3

HIST 5384	WEST AFRICA (3) The West African sub region, with special emphasis on the Niger River Valley civilizations of Ghana, Mali, Songhai, Ashanti, Yoruba, and Dahomey, the ancestral origins of African Americans, the impact of the desiccation of the Sahara Desert, and the impact of transSahara and trans-Atlantic trade. Prerequisite: HIST 2840/284 and 2850/285, or consent of the department.	3	3
HIST 5386	ANCIENT AFRICA (3) An understanding and appreciation of Africa before 1500 AD and the discovery of the new world, and on the eve of the breakdown of its civilizations under the impact of this discovery and Islam. Prerequisites: HIST 2840/284 and 2850/285 recommended or consent of the department.	3	3
HIST 5387	KEY PROBLEMS IN AFRICAN HISTORY (3) African from ancient to modern times with emphasis on the origins of human civilization, the Saharan factor in African history, the impact of Sudanese and Bantu migrations, and evaluation of foreign interventions and their legacies, state formation and problems of development and governance. Emphasis on the theoretical and methodological issues of the debate on and in African history. Prerequisites: HIST 2840/284 and HIST 2850/285 recommended or consent of the department.	3	3
HIST 5389	READINGS AND RESEARCH IN AFRICAN AMERICAN HISTORY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Advanced readings and research in African American history. African American historiography, theory, research methods and methodology including examination of primary source materials, cultural analysis, interview skills, and archival research involving African background, enslavement, African American social and cultural experience in the United States. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: Consent of the department.		
HIST 5390	COLONIALISM, NATIONALISM AND INDEPENDENCE IN THE THIRD WORLD (3) Political, economic and cultural changes brought about in traditional society by the imposition of Western rule, leading to the rise of nationalism and successful independence movements. India, Indochina, Kenya, and Nigeria will be used as case studies. Prerequisite: Consent of the department.	3	3

HIST 5394	INDEPENDENT STUDY IN HISTORY (3) Staff-directed study in special topics. May be repeated once under a different topic for one to three additional credit hours. Prerequisites: Admission to MA History Program.	3	1
HIST 5399	SPECIAL TOPICS IN HISTORY (3) Analysis of particular historical problems that have a high degree of contemporary significance. Prerequisite: Consent of the department.	3	3
HIST 5400	HISTORICAL METHODS AND HISTORIOGRAPHY (3) Principles of historical research and analysis, as defined by major changes in historiography (or historical scholarship). Examination of debates over the conception of historical analysis, including theoretical shifts in the field and changing methodologies for analyzing primary sources. Prerequisites: Admission to M.A. History program.	3	3
HIST 5410	ADVANCED READINGS IN HISTORIOGRAPHY FOR MASTER'S ESSAY AND EXAM (3) Analysis of major historiographical developments in particular sub-fields of history reflecting students' major and minor fields of study. Revision and final submission of Master's Essay based on a research paper completed in a previous seminar. Prerequisites: Admission to M.A. History program intended for students in the Master's	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Essay/Exam option.		
HIST 5420	INDEPENDENT RESEARCH IN HISTORY I (3) Advanced and directed research in a special topic. May be repeated once under a different topic for one to three additional credit hours. Prerequisites: Admission to M.A. History program and HIST 5400/400.	3	3

HIST 5421	INDEPENDENT RESEARCH IN HISTORY II (3) Advanced and directed research in a special topic. May be repeated once under a different topic for one to three additional credit hours. Prerequisites: Admission to M.A. History program and HIST 5400/400.	3	3
HIST 5470	SEMINAR IN UNITED STATES HISTORY I (3) Research in special phases of United States history. Topics will vary from term to term. (May be taken more than once with a different topic.) Prerequisite: Admission to M.A. History program, HIST 5400/400.	3	3
HIST 5471	SEMINAR IN UNITED STATES HISTORY II (3) Research in special phases of United States history. Topics will vary from term to term. (May be taken more than once with a different topic.) Prerequisites: Admission to M.A. to History program, HIST 5400/400.	3	3
HIST 5472	SEMINAR IN UNITED STATES HISTORY III (3) Research in special phases of United States history. Topics will vary from term to term. (May be taken more than once with a different topic.) Prerequisites: Admission to M.A. History program, HIST 5400/400.	3	3
HIST 5480	SEMINAR IN EUROPEAN HISTORY I (3) Research in special phases of European history. Topics will vary from term to term. (May be taken more than once with a different topic.) Prerequisites: Admission to M.A. History program, HIST 5400/400.	3	3
HIST 5481	SEMINAR IN EUROPEAN HISTORY II (3) Research in special phases of European history. Topics will vary from term to term. (May be taken more than once with a different topic.) Prerequisites: Admission to M.A. History program, HIST 5400/400.	3	3
HIST 5482	SEMINAR IN EUROPEAN HISTORY III (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Research in special phases of European history. Topics will vary from term to term. (May be taken more than once with a different topic.)</p> <p>Prerequisites: Admission to M.A. History program, HIST 5400/400.</p>		
HIST 5490	<p>SEMINAR IN HISTORY I (3)</p> <p>Research in special phases of history. Topics will vary from term to term. (May be taken more than once with a different topic.)</p> <p>Prerequisites: Admission to M.A. History program, HIST 5400/400.</p>	3	3
HIST 5491	<p>SEMINAR IN HISTORY II (3)</p> <p>Research in special phases of history. Topics will vary from term to term. (May be taken more than once with a different topic.)</p> <p>Prerequisites: Admission to M.A. History program, HIST 5400/400.</p>	3	3
HIST 5499	<p>MASTER'S THESIS (6)</p> <p>Directed research.</p> <p>Prerequisites: Admission to M.A. History program, HIST 5400/400 and consent of graduate advisor.</p>	3	3

Honor (HON)

Course	Course Description	Credit Hrs.	Contact Hrs.
HON 1000	<p>HONORS SEMINAR (1)</p> <p>Analysis and discussion of a particular theme that will vary each semester (may be repeated a maximum of 8 semesters).</p> <p>Prerequisite: Admission to the Honors College.</p>	1	2
HON 1200	<p>HONORS ENGLISH COMPOSITION II (3)</p> <p>Basic principles of exposition for students in Honors College. Practice in reasoning skills, paragraph and essay development, usage, punctuation and mechanics. Students will be expected to successfully complete the Composition I Exit Examination and the end of the semester. Credit is given for only one of the following: HON 1200/120, ENG 1230/123, ENG 1270/127.</p> <p>Prerequisite: Admission to the Honors College or consent of the College.</p>	3	3

HON 1210	HONORS ENGLISH COMPOSITION II (3) Advanced techniques of exposition with emphasis on argumentation and reasoning. Intensive practice in paragraph and essay development, sentence construction, usage, punctuation and mechanics. Emphasis on the research paper and appropriate documentation. Students will be expected to successfully complete the Composition II exit examination (English Qualifying Examination) at the end of the semester. Credit given for only one of the following: HON 1210/121, ENG 1240/124, or ENG 1280/128. Prerequisites: Good standing in the Honors College and successful completion of HON 1200/120, or consent of the College.	3	3
HON 1300	MATHEMATICAL AND SCIENTIFIC INQUIRY I (3) Concepts in the physical sciences are modeled using linear, exponential, logarithmic, and circular functions. Major ideas in the physical sciences will be explicitly linked to mathematical understanding. Prerequisite: Admission to the Honors College	3	4
HON 1310	MATHEMATICAL AND SCIENTIFIC INQUIRY II (3) A continuation of the inquiry begun in HON 1300/130. Prerequisite: HON 1300/130	3	3
HON 1350	SCIENTIFIC INQUIRY/LECTURE AND LABORATORY/4 (3) Fundamentals of science applied to everyday life. The specific topic rotates from year to year. It may be physics (basic principles of kinematics, thermodynamics, electricity, and radiation), chemistry (basic principles such as atoms, molecules, periodic properties and	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	organic chemistry), Earth and space science (introduction to the study of the continents, oceans, the atmosphere, and the weather and climates of planet Earth) or astronomy (physical principles of the solar system, stars, galaxies, cosmology and humanity's place in the universe). All include an introduction to the scientific world view. Additional course fee. Prerequisite: Admission to Honors College.		

HON 1355	MATHEMATICAL INQUIRY (3) Exploration of modern mathematical ideas from a layman's point of view. Emphasis on using sound reasoning skills and on communicating ideas effectively. Classroom discussion and group work on challenging problems are central to the course. Topics from Number Theory, Infinity, Geometry, Chaos Theory, Probability, Statistics, and Graph Theory may be included. Credit not given for both HON 1355 and MATH 1700, MATH 1800 or HON 1300/1310. Prerequisite: Admission to the Honors College.	3	3
HON 1400	PHILOSOPHICAL INQUIRY (3) Discovery, analysis, and application of the principles of argumentation and philosophical inquiry through philosophical and non-philosophical texts. Prerequisite: Admission to the Honors College	3	3
HON 1500	SOCIAL INQUIRY (3) An examination of the birth, development, and current state of the social and behavioral sciences. Formulation of and approaches to the study of human social life. Prerequisite: Admission to the Honors College	3	3
HON 1600	HISTORICAL INQUIRY (3) The art of history and the process of research and interpretation in the search for historical knowledge. Critical reading and analysis of primary sources; themes in the development of the West and the World since 1500. PREREQUISITES: Completion of 18 hours of honors credit or consent of the College.	3	3
HON 2000		1	1
HON 2010	SCIENCE & SOCIETY I (3) Critical examination of the interactions among human beings, cultures and the natural and social environments using the methods of the natural and social sciences. PREREQUISITES: Completion of 18 hours of honors credit or consent of the College.	3	3
HON 2020	SCIENCE & SOCIETY II (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Investigation into the relationships among human biology, human behavior and human culture using the methods of the natural and social sciences. Prerequisite: Completion of 18 hours of honors credit or consent of the Honors College.		

HON 2300	ARTS & SOCIETY (3) Interaction between the arts and various societies with specific attention to how religious and political institutions manipulate the arts and how the arts shape religious, political and cultural ideals. Writing emphasis course. PREREQUISITE: Completion of 18 hours of honors credit or consent of the College	3	3
HON 2400	VALUES IN CONFLICT (3) Exploration and analysis of a contemporary problem or theme utilizing both moral and ethical principles as well as other resources in the humanities and social sciences. Prerequisite: Completion of 18 hours of Honors cred or consent of the Honors College.	3	3
HON 2800	THE ORIGINS OF LIFE (3) Contributions of the earth sciences, cosmology, biology, chemistry and physics to understanding the origin of life on Earth and the possibility of life on other worlds. Prerequisite: Third year Honors or consent of the Honors College.	3	3
HON 2900	PERSPECTIVES ON HUMAN EXISTENCE (3) Role of the humanities in the natural desire to find meaning in human existence and their role in answering those questions that each person must face. Prerequisite: Third year Honors or consent of the Honors College.	3	3
HON 3900	HONORS SPECIAL TOPICS (3) Intensive analysis of a selective and relevant topic of contemporary interest. May be repeated once under a different topic. Prerequisites: Honors Student or Presidential Ambassador in "Good Standing" or consent of Honors Dean.	3	3
HON 4900	INDEPENDENT STUDY (1-3) Self-directed study for variable credit in a special topic of interest to the student. May be repeated once under a different topic. Prerequisite: Honors Student or Presidential Ambassador in "Good Standing" or consent of Honors Dean.	1	1

Health Physical Educ & Rec (HPR)

Course	Course Description	Credit Hrs.	Contact Hrs.
HPR 2500	ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION, RECREATION AND ATHLETICS (3) Organization and administration of programs and facilities.	2	2

International Studies (I S)

Course	Course Description	Credit Hrs.	Contact Hrs.
I S 1099	<p>FRESHMEN SEMINAR IN INTERNATIONAL STUDIES (1)</p> <p>Introduction to the expectations of the university. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life.</p> <p>Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.</p>	1	1
I S 3314	<p>FIELD INTERNSHIP (3-6)</p> <p>Special assignments or a research project related to work in an office or institution associated with international and global studies. One hundred twenty-two (122) clock hours for three credit hours. Course may be repeated for up to six credit hours.</p> <p>Prerequisites: IS major, Junior standing, minimum GPA of 2.5, and consent of instructor.</p>	3	3
I S 4000	<p>INTERNATIONAL STUDIES SENIOR THESIS (3)</p> <p>Intensive study in the theory and methods of international studies. Writing-intensive course. Senior thesis course.</p> <p>Prerequisites: Senior standing; approval of department.</p>	3	3
I S 4750	<p>HONORS THESIS I (3)</p> <p>Intensive readings and research for preparation of senior honors thesis. Open to students approved for program honors only.</p> <p>Prerequisites: Admission to Honors Program in International Studies.</p>	3	3
I S 4850	<p>HONORS THESIS II (3)</p> <p>Completion and defense of Honors Thesis. Open to students approved for programs honors only.</p> <p>Prerequisites: Admission to Honors Program in International Studies, completion of I S 4750 with a grade of B or better.</p>	3	3

Industrial Technology (I T)

Course	Course Description	Credit Hrs.	Contact Hrs.
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IT 1111	BASIC TECHNICAL DRAWING LECTURE AND LABORATORY /6 (3) Basic techniques of multi-view drawing, use of drafting equipment and materials, drafting conventions, pictorial drawing and sketching, computer aided drafting. Designed for students specializing in Graphics and Electronics. Credit not given for both IT 1121/121 and IT 1111/111.	3	6
IT 1121	TECHNICAL DRAWING LECTURE AND LABORATORY /6 (3) Fundamentals of multiview drawing, use of drafting equipment and materials, drafting conventions, pictorial drawing and sketching, computer aided drafting. Additional course fee. Credit not given for both IT 1121/121 and IT 1111/111. IAI: EGR 941	3	6
IT 1142	BASIC GRAPHIC COMMUNICATION LECTURE AND LABORATORY /6 (3) Basic design concepts and skills developed through solid theory, practical design tips, projects and creativity. Integrated coverage of manual and computerized design, layout, platemaking, stripping, offset lithography, binding and finishing. Credit not given for both IT 1121/141 and IT 1142/142. Additional course fee.	3	6
IT 1151	BASIC METALWORKING LECTURE AND LABORATORY/8 (4) Basic concepts in metalworking. Experience in bench metal and sheet metal work, casting, forging, welding, drilling, sawing, turning, shaping, and milling. Making multi-view drawings of metal shop projects from given specifications. Additional course fee. Prerequisite: IT 1121/121.	4	8
IT 1161	BASIC WOODWORKING LECTURE AND LABORATORY /8 (4) Study of wood and wood finishing and use of hand tools. Introduction to machine woodworking. Drawing wood shop projects. Additional course fee. Prerequisite: IT 1121/121.	4	8
IT 1163	CRAFT LECTURE AND LABORATORY /6 (3) Fabrication and decoration of projects in various materials.	3	6
IT 1164	BUILDING MAINTENANCE, REMODELING AND RENOVATION LECTURE AND LABORATORY /8 (4) An introduction to proper building maintenance and principles of remodeling and renovation. Major emphasis will be placed on hands-on activity with tools and equipment. Additional course fee.	4	8
IT 1167	INDUSTRIAL PLASTICS LECTURE AND LABORATORY /6 (3) Properties of polymers (thermoplastic and thermosetting). Forming plastics (injection	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>molding, compression molding, transfer molding, blow molding, reinforced plastic molding), extrusion, calendaring, slush molding, casting, thermoforming, and machining (vacuum forming), and types of plastics.</p> <p>Prerequisite: CHEM 1550/155 or consent of the department.</p>		
I T 1172	<p>ENERGY AND POWER TECHNOLOGY LECTURE AND LABORATORY /6 (3)</p> <p>Exploration of energy sources. Analyses of processes of converting energy to power and power transmission techniques. Introduction to computer applications in energy and power determinations. Additional course fee.</p>	3	6
I T 2221	<p>MACHINE DRAFTING LECTURE AND LABORATORY /6 (3)</p> <p>Description and drawing of machinery and machine parts. Additional course fee.</p> <p>Prerequisite: IT 1121/121; MATH 1200/162 or consent of the department.</p>	3	6
I T 2223	<p>DESCRIPTIVE GEOMETRY LECTURE AND LABORATORY /6 (3)</p> <p>Graphical methods of solving problems of points, lines, planes, and surface relationships. Additional course fee.</p> <p>Prerequisite: MATH 1200/162; IT 2221/221 or consent of the department.</p>	3	6
I T 2225	<p>ARCHITECTURAL DRAFTING LECTURE AND LABORATORY /6 (3)</p> <p>Drawing of plan arrangements, elevations and sections of small residential structures. Additional course fee.</p> <p>Prerequisite: I T 1121/121 or consent of the department.</p>	3	6
I T 2236	<p>BASIC ELECTRONICS LECTURE AND LABORATORY /6 (3)</p> <p>Advanced circuitry, tube and semiconductor circuitry, and fabrication.</p> <p>Prerequisite: IT 1172/172 or consent of the department.</p>	3	6
I T 2237	<p>ELECTRONIC COMMUNICATION LECTURE AND LABORATORY /6 (3)</p> <p>Principles of radio and television transmission, reception and repair. Testing and installation of components. Additional course fee.</p> <p>Prerequisite: Consent of the department.</p>	3	6

I T 2242	DUPLICATING AND FINISHING LECTURE AND LABORATORY /6 (3) Advanced practice in graphic arts processes. Photographics, silk screen, offset, letterpress, and cold type printing. Binding and finishing operations, office duplicating process.	3	6
I T 2247	PHOTO-OFFSET PRINTING LECTURE AND LABORATORY /4 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Photography, stripping, platemaking, offset press operation. Additional course fee. Prerequisite: IT 1142/142 and consent of the department.		
I T 2250	MANUFACTURING PROCESSES LECTURE AND LABORATORY /6 (3) Basic concepts in manufacturing through experiences in forming, separating, combining, and assembling as used in the production of manufactured goods. Additional course fee.	3	6
I T 2252	SHEET METAL LECTURE AND LABORATORY /6 (3) Industrial application of forming, bending, and fabrication of light gauge metal parts. Additional course fee. Prerequisite: IT 1151/151.	3	6
I T 2255	MACHINE TOOLS LECTURE AND LABORATORY /6 (3) Machine metalworking operations. Additional course fee. Prerequisite: IT 1151/151.	3	6
I T 2260	MATERIALS AND PROCESSES LECTURE AND LABORATORY /6 (3) Characteristics, utilization, and processing of industrial materials including woods, metals, plastics and synthetics. Composition and working qualities, types, grades, availability, and suitability of materials for varying purposes. Quality, prices, and control. Emphasis on shaping, forming, cutting, and finishing. Additional course fee.	3	6
I T 2261	MACHINE WOODWORKING LECTURE AND LABORATORY /6 (3) Use of machines to reduce, cut, work, or shape wood products.	3	6
I T 2262	CABINETMAKING LECTURE AND LABORATORY /6 (3) Construction, finishing, and polishing of fine wood products. Additional course fee. Prerequisite: IT 2261/261.	3	6

I T 2264	WOOD FINISHING LECTURE AND LABORATORY /6 (3) Analysis and application of the various inorganic and organic finishing materials used in the wood industry. Additional course fee.	3	6
I T 2266	MODERN CARPENTRY LECTURE AND LABORATORY /6 (3) Principles, theory, and practice of carpentry. Additional course fee.	3	6
I T 2272	POWER AND TRANSPORTATION TECHNOLOGY LECTURE AND LABORATORY /6 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Power production and utilization in transportation systems. Emphasis on the design and service of devices utilized for transportation purposes and the related environmental impact. Additional course fee.		
I T 2275	INTERNAL COMBUSTION ENGINES LECTURE AND LABORATORY /6 (3) Fundamentals of the gasoline engine and instruction in diesel engines. Service procedures.	3	6
I T 2287	AUTOMOTIVE TRANSMISSIONS AND POWER TRAINS LECTURE AND LABORATORY /6 (3) Gears and gearing. The operation, construction, and maintenance of selective sliding and over drive transmissions. Theory and operation of fluid couplings and torque converters. Maintenance of drive lines, rear axles, differentials. Diagnosis of automatic transmissions. Service procedures. Prerequisite: IT 1172/172 or consent of the department.	3	6
I T 3092	ILLINOIS INDUSTRIAL TECHNOLOGY EDUCATION TEACHER CERTIFICATION REVIEW (1) Review of industrial technology education theory and practice in preparation for the State Teacher Certification Examination. May not be counted for degree credit. Prerequisite: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.	1	1
I T 3279	SPECIAL TOPICS IN VOCATIONAL EDUCATION (1-9) Alternative education problems that are current and significant in a modern society.	1	1

IT 3286	AUTOMOTIVE FUEL, LUBRICATION, AND COOLING SYSTEM LECTURE AND LABORATORY/6/ (3) Types of fuels and air-fuel ratios for internal combustion engines. Construction, operation, and maintenance of fuel pumps and combination fuel and vacuum pumps. Construction, operation, and maintenance circuits of various carburetors. Fuel distribution, manifolds, fuel injection system, principles and multiple carburetion. Prerequisites: IT 1172/172 or consent of department.	3	6
IT 3288	AUTOMOTIVE CHASSIS AND BODY LECTURE AND LABORATORY /6/ (3) A study of the construction, operation, and maintenance of the various chassis units; steering gears and power steering, front suspension systems and wheel alignment, brake systems and power brakes, tires and wheels, car frame and body, and air conditioning. Prerequisites: IT 1172/172 or consent of department.	3	6
IT 3325	INFORMATION TECHNOLOGY AND PROGRAMMING FUNDAMENTALS FOR TEACHERS (3) A comprehensive study of the analysis, design, and implementation stages of the System	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Development Life Cycle (SDLC). Introduction to basic computer programming. Students will use computer to analyze problems, develop algorithms, design code and learn good programming techniques that could be implemented in a classroom in a classroom setting. Prerequisite: IT 3220 or the consent of the department.		
IT 4248	ADVANCED COMPUTER ASSISTED DRAFTING /6 (3) Advanced CAD concepts using AUTCAD software. Higher level entity input and editing, customizing, and 3-D modeling. Additional course fee. Prerequisite: IT 4328/328 or equivalent.	3	6
IT 4300	PRODUCTION MANAGEMENT (3) Perspective: nature, scope, concepts, responsibilities. Productivity: objectives, planning, decision making, technological aspects. Structure: authority, power, analysis, personnel. Organizational Behavior: communication, motivation, leadership. Control: budget, audits.	3	3

I T 4319	TECHNICAL PROBLEMS IN COMPUTER-AIDED DRAFTING (3) Recent developments, workshops, or independent study in the field of computer aided drafting. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 4320	PLANNING FOR CONSTRUCTION AND RENOVATION OF PROPERTY (3) Planning for property renovation and the processes involved in securing funds, choosing property, pricing property, drawing plans, choosing contractors, securing building permits, inspecting work in progress, payouts for completed work, selecting tenants, and researching problems involved in the renovation process. Prerequisite: IT 1121/121, 4328/328 or consent of the instructor.	3	6
I T 4323	ADVANCED DESCRIPTIVE GEOMETRY LECTURE AND LABORATORY /6 (3) Mongean and direct projection methods for solving engineering problems. Additional course fee. Prerequisite: IT 2223/223.	3	6
I T 4326	ARCHITECTURAL DESIGN LECTURE AND LABORATORY /6 (3) Design of contemporary structures. Pencil, ink, and wash drawings. Additional course fee. Prerequisite: IT 2225/225 or consent of the department.	3	6
I T 4327	EQUIPMENT AND FACILITY PLANNING LECTURE AND LABORATORY /6 (3)	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Laboratory standards, planning, equipment layout and specifications, tool and material storage, and safety standards. Additional course fee. Prerequisite: IT 1121/121 or consent of the department.		
I T 4328	COMPUTER ASSISTED DESIGN AND DRAFTING LECTURE AND LABORATORY/6 (3) Study, demonstration and practice on CADD (Computer Assisted Design and Drafting Systems). Computer graphics concepts. Additional course fee. Prerequisite: IT 1121/121 and concurrent enrollment in CPTR 1060/106 or consent of the department.	3	6

I T 4329	TECHNICAL PROBLEMS IN DRAFTING LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of drafting. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 4331	BASIC DIGITAL ELECTRONICS LECTURE AND LABORATORY /6 (3) This course covers basic digital electronics leading to a good foundation for the study of microprocessors and computers. Basic studies covering the basic logic gates, binary numbering systems and binary arithmetic utilizing logic hardware for experimentation in the laboratory. Additional course fee.	3	6
I T 4332	BASIC MICROPROCESSORS LECTURE AND LABORATORY /6 (3) Lecture and laboratory study and experimentation with the latest family of microprocessors found in many present day microcomputers. This course will deal with microcomputer basics and arithmetic, the latest microprocessors, programming and interfacing. Prerequisite: IT 4331/331 or consent of the department.	3	6
I T 4335	ELECTRICAL AND ELECTRONIC APPLICATIONS LECTURE AND LABORATORY /2-18 (1-9) Recent developments in electrical and electronic devices and circuits. Designed for advanced students, journeymen, and vocational teachers. Prerequisite: Consent of the department.	1	2
I T 4339	TECHNICAL PROBLEMS IN ELECTRONICS LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of electronics. May be repeated for credit. Prerequisite: Consent of the department.	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
I T 4341	GRAPHIC DESIGN LECTURE AND LABORATORY /6 (3) Basic design, layout, typography, and copy preparation. Techniques of printing and basic photography. Additional course fee. Prerequisite: IT 1142/142 and consent of the department.	3	6

IT 4342	INTRODUCTION TO DESKTOP PUBLISHING /6 (3) Introduction to techniques used in the printing and publishing fields to create publications. Concepts of desktop publishing and imposing text and graphics from various software packages used to create these publications.	3	6
IT 4345	ADVANCED GRAPHIC ARTS LECTURE AND LABORATORY /2-18 (1-9) Recent developments in the field of graphics.	1	2
IT 4349	TECHNICAL PROBLEMS IN GRAPHICS LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of graphics arts. May be repeated for credit. Prerequisite: Consent of the department.	1	2
IT 4352	COMPUTER INTEGRATED MANUFACTURING /6 (3) A study of the computer integrated manufacturing process as it relates to product planning, production engineering, automation technology, computer-assisted manufacturing, numerical control technology, robotics, and factories of the future. Prerequisite: IT 2250/250 and 4328/328	3	6
IT 4355	ADVANCED METALWORKING LECTURE AND LABORATORY /2-18 (1-9) Continuation of metalworking on an advanced level. Prerequisites: IT 1151/151 and CHEM 1550/155, or consent of the department.	1	2
IT 4359	TECHNICAL PROBLEMS IN METALS LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of metals. May be repeated for credit. Prerequisite: Consent of the department.	1	2
IT 4362	ADVANCED CABINETMAKING LECTURE AND LABORATORY /6 (3) Technical development and research problems associated with advanced cabinetmaking. Use of heavy duty industrial equipment and production methods.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Additional course fee. Prerequisite: IT 2262/262 or consent of the department.		

I T 4364	FINISHING MATERIALS AND METHODS LECTURE AND LABORATORY /6 (3) Methods of finishing and refinishing by hand and with spray equipment, mixing and applying natural and synthetic stains, sealers, fillers, and surface finishers; rubbing, polishing, and baking. Additional course fee. Prerequisite: Consent of the department.	3	6
I T 4365	ADVANCED WOODWORKING LECTURE AND LABORATORY /2-18 (1-9) Continuation of woodworking on an advanced level. Additional course fee. Prerequisite: Consent of the department.	1	2
I T 4366	CARPENTRY AND MATERIALS OF CONSTRUCTION LECTURE AND LABORATORY/ 6 (3) Physical and mechanical properties of basic building materials and their applications in contemporary construction. Practice in the construction work connected with the home building. Additional course fee. Prerequisites: Consent of the department.	3	6
I T 4368	PERIOD FURNITURE DESIGN AND CONSTRUCTION LECTURE AND LABORATORY /6 (3) A study of early American, traditional, contemporary, French provincial, Italian provincial, Spanish, and other furniture styles. The student will select and construct a selected piece of furniture from one of the specific periods. Prerequisite: Consent of the department.	3	6
I T 4369	TECHNICAL PROBLEMS IN WOODS AND SYNTHETICS LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of woods and synthetics. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 4372		3	6
I T 4375	ADVANCED AUTO MECHANICS LECTURE AND LABORATORY /2-18 (1-9) Thermal, electrical, and mechanical principles of the automobile. Emphasis on the power plant. Prerequisite: Consent of the department.	1	2
I T 4379	TECHNICAL PROBLEMS IN POWER (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Recent developments, workshops, or independent study in the field of power. Prerequisite: Consent of the department.		
IT 4382	CONSTRUCTION FOR NEIGHBORHOOD REDEVELOPMENT LECTURE AND LABORATORY /6 (3) A hands-on course designed to look at and involve students in construction methods. Training provided in light frame construction, including planning, layout, insulation, electrical circuit and heating duct insulation, and building floors, walls, ceilings, sidings, and roofs. Students will construct a small multi-room building. Prerequisite: IT 1121/121 and IT 4328/328, or consent of the department.	3	6
IT 4385	INTRODUCTION TO QUALITY CONTROL (3) Techniques for controlling the quality of products or services and improving quality through process control. Projects involving design of quality systems.	3	3
IT 5300	PRODUCTION MANAGEMENT (3) Perspective: nature, scope, concepts, responsibilities. Productivity: objectives, planning, decision making, technological aspects. Structure: authority, power, analysis, personnel. Organizational Behavior: communication, motivation, leadership. Control: budget, audits.	3	3
IT 5319	TECHNICAL PROBLEMS I 2 COMPUTER-AIDED DRAFTING (3) Recent developments, workshops, or independent study in the field of computer aided drafting. May be repeated for credit. Prerequisite: Consent of the department.	1	2
IT 5320	PLANNING FOR CONSTRUCTION AND RENOVATION OF PROPERTY (3) Planning for property renovation and the processes involved in securing funds, choosing property, pricing property, drainage plans, choosing contractors, securing building permits, inspecting work in progress, payouts for completed work, selecting tenants, and researching problems involved in the renovation process. Prerequisite: IT 1121/121, 5328/328 or consent of the instructor.	3	6
IT 5323	ADVANCED DESCRIPTIVE GEOMETRY LECTURE AND LABORATORY /6 (3) Mongeian and direct projection methods for solving engineering problems. Prerequisite: I T 2223/223.	3	6

I T 5326	ARCHITECTURAL DESIGN LECTURE AND LABORATORY /6 (3)	3	6
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Design of contemporary structures. Pencil, ink, and wash drawings. Prerequisite: I T 2225/225 or consent of the department.		
I T 5327	EQUIPMENT AND FACILITY PLANNING LECTURE AND LABORATORY /6 (3) Laboratory standards, planning, equipment layout and specifications, tool and material storage, and safety standards.	3	6
I T 5328	COMPUTER ASSISTED DESIGN AND DRAFTING (3) Study, demonstration and practice on CADD (Computer Assisted Design and Drafting Systems). Computer graphic concepts. Field trips. Prerequisite: I T 1121/121 and concurrent enrollment in CPTR 1060/106.	3	6
I T 5329	TECHNICAL PROBLEMS IN DRAFTING LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of drafting. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 5331	BASIC DIGITAL ELECTRONICS (3) This course covers basic digital electronics leading to a good foundation for the study of microprocessors and computers. Basic studies covering the basic logic gates, binary numbering systems, and binary arithmetic utilizing logic hardware for experimentation in the laboratory.	3	6
I T 5332	BASIC MICROPROCESSORS LECTURE AND LABORATORY/6 (3) Lecture and laboratory study and experimentation with the latest family of microprocessors found in many present day microcomputers. This course will deal with microcomputer basics and arithmetic, the latest microprocessors, programming, and interfacing. Prerequisite: Consent of the department.	3	6
I T 5335	ELECTRICAL OR ELECTRONIC APPLICATIONS LECTURE AND LABORATORY /2-10 (1-9) Recent developments in electrical and electronic devices and circuits. Designed for advanced students, journeymen, and vocational teachers. Prerequisite: Consent of the department.	1	2

I T 5339	TECHNICAL PROBLEMS IN ELECTRONICS LECTURE AND LABORATORY /2-10 (1-9) Recent developments, workshops, or independent study in the field of electronics. May be repeated for credit. Prerequisite: Consent of the department.	1	2
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Course	Course Description	Credit Hrs.	Contact Hrs.
I T 5341	GRAPHIC DESIGN LECTURE AND LABORATORY /4 (3) Basic design, layout, and typography. Copy preparation. Techniques of printing and basic photography. Prerequisite: I T 1142/142	3	6
I T 5342	INTRODUCTION TO DESKTOP PUBLISHING/4 (3) Introduction to techniques used in the printing and publishing fields to create publications. Concepts of desktop publishing and imposing text and graphics from various software packages used to create these publications.	3	6
I T 5345	ADVANCED GRAPHIC ARTS LECTURE AND LABORATORY/2-10 (1-9) Recent development in the field of graphics.	1	2
I T 5348	ADVANCED COMPUTER ASSISTED DRAFTING /4 (3) Advanced CAD concepts using AUTCAD software. Higher level entity input and editing, customizing, and 3-D modeling. Prerequisite: I T 5328/328 or equivalent.	3	6
I T 5349	TECHNICAL PROBLEMS IN GRAPHICS LECTURE AND LABORATORY /2-10 (1-9) Recent developments, workshops, or independent study in the field of graphics arts. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 5352	COMPUTER INTEGRATED MANUFACTURING/4 (3) Study of the computer integrated manufacturing process as it relates to product planning, production engineering, automation technology, computer-assisted manufacturing, numerical control technology, robotics, and factories of the future. Prerequisites: IT 2250/250 and 5328/328.	3	6

I T 5355	ADVANCED METAL WORKING LECTURE AND LABORATORY /2-10 (1-9) Continuation of metalworking on an advanced level. Prerequisite: I T 1151/151 and CHEM 1550/155 or consent of the department.	1	2
I T 5359	TECHNICAL PROBLEMS IN METALS LECTURE AND LABORATORY /2-10 (1-9) Recent developments, workshops, or independent study in the field of metals. May be repeated for credit. Prerequisite: Consent of the department.	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
I T 5362	ADVANCED CABINETMAKING LECTURE AND LABORATORY /4 (3) Technical development and research problems associated with advanced cabinetmaking. Use of heavy-duty industrial equipment and production methods. Prerequisite: I T 2262/262 or consent of the department.	3	6
I T 5364	FINISHING MATERIALS AND METHODS LECTURE AND LABORATORY /4 (3) Methods of finishing and refinishing by hand and with spray equipment; mixing and applying natural and synthetic stains, sealers, fillers, and surface finisher; rubbing, polishing, and baking. Prerequisite: Consent of the department.	3	6
I T 5365	ADVANCED WOODWORKING LECTURE AND LABORATORY /2-10 (1-9) Continuation of woodworking on an advanced level. Prerequisite: Consent of the department.	1	2
I T 5366	CARPENTRY AND MATERIALS OF CONSTRUCTION (3) Physical and mechanical properties of basic building materials and their applications in contemporary construction. Practice in the construction work connected with home building. Additional course fee. Prerequisite: Consent of department.	3	6

I T 5368	PERIOD FURNITURE DESIGN AND CONSTRUCTION LECTURE AND LABORATORY /6 (3) A study of Early American, traditional, contemporary, French provincial, Italian provincial, Spanish, and other furniture styles. The student will select and construct a selected piece of furniture from one of the specific "periods." Prerequisite: Consent of the department.	3	6
I T 5369	TECHNICAL PROBLEMS IN WOODS AND SYNTHETICS LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of woods and synthetics. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 5370		1	1
I T 5375	ADVANCED AUTO MECHANICS LECTURE AND LABORATORY / 2-18 (1-9) Thermal, electrical, and mechanical principles of the automobile. Emphasis on the power plant.	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
I T 5379	TECHNICAL PROBLEMS IN POWER LECTURE AND LABORATORY /2-18 (1-9) Recent developments, workshops, or independent study in the field of power. May be repeated for credit. Prerequisite: Consent of the department.	1	2
I T 5382	CONSTRUCTION FOR NEIGHBORHOOD REDEVELOPMENT (3) A "hands-on" course designed to look at and involve students in construction methods. Training provided in light frame construction, including planning, layout, insulation, electrical circuit and heating duct insulation, and building floors, walls, ceilings, sidings, and roofs. Students will construct a small multi-room building.	3	6
I T 5385	INTRODUCTION TO QUALITY CONTROL (3) Techniques for controlling the quality of products or services and improving quality through process control. Projects involving design of quality systems.	3	3

I T 5469	<p>RESEARCH AND DEVELOPMENT IN CONSTRUCTION/2-10/ (1-9)</p> <p>Application of scientific principles in the development of new construction techniques or new commercial products in the construction industry. Advanced research methodology will be used to identify and formulate solutions to industrial production problems. (May be repeated for a maximum of nine credit hours.)</p> <p>Prerequisite: Consent of the department.</p>	1	1
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Individualized Curriculum Prog (ICP)

Course	Course Description	Credit Hrs.	Contact Hrs.
ICP 4500	INDIVIDUALIZED CURRICULUM PROGRAM CAPSTONE (3) Completion of learning plan. Connections between the world of work and academics. Course provides an opportunity for students to engage closely with a particular subject and to utilize the research and critical thinking skills developed during their course of study. Course fulfills senior thesis and capstone requirement.	3	3

Practical Trng for Intl Studs (ICPT)

Course	Course Description	Credit Hrs.	Contact Hrs.
ICPT 3500		1	1
ICPT 5500		1	

Information Systems (INSY)

Course	Course Description	Credit Hrs.	Contact Hrs.
INSY 1360	<p>INTRODUCTION TO COMPUTER INFORMATION SYSTEMS (3)</p> <p>Fundamentals of information systems, what they are, how they affect organizations. Technical and organizational foundations of information systems, building information systems, managing information system resources. Different topics will be covered in this course including but not limited to: computer hardware technologies, computer software technologies, computer network technologies, Internet technologies and the World Wide Web, operating systems technologies, databases technologies, and multimedia technologies.</p>	3	3
INSY 1370	<p>MICROCOMPUTER APPLICATIONS IN BUSINESS (4)</p> <p>Survey of microcomputer software applications in business from the perspective of the individual user. Standard software packages available to support a microcomputer based executive workstation are reviewed. These include word processors, electronic spreadsheets, database management systems, graphics, and accounting and other common application packages.</p>	3	3
INSY 2840	<p>INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING (3)</p> <p>This course is an introduction to program design and development. Students apply a structured, multiphase program development process that features a series of steps involving understanding of a problem, formal problem definition, and graphic design methodologies (particularly flow charts). A study of the program structure, data types, operators, input/output statements, decision, loops, arrays, strings and GUI using an object-oriented programming language.</p> <p>Prerequisites: INSY 1360/136</p>	3	3
INSY 2900	<p>E-COMMERCE (3)</p> <p>This course presents concepts and skills for the strategic use of e-commerce and related information technology from three perspectives: business to consumers, business-to-business, and intra-organizational. Examination of e-commerce in altering the structure of entire industries, and how it affects business processes including electronic transactions, supply chains, decision making and organizational performance. The course addresses basic concepts and tools for understanding and exploring market opportunities and marketing strategies associated with global electronic commerce. In addition, some of the major issues associated with e-commerce - security, privacy, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities will be explored. Writing emphasis course.</p> <p>Prerequisites: INSY 1370/137 or consent of the department.</p>	3	3

INSY 3100	ADVANCED OBJECT ORIENTED PROGRAMING (4) The course introduces the principles of software engineering, structured program design,	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>modular programming, and object oriented program design. Students will learn the concepts of object-oriented programming, user interface programming, classes, inheritance, and polymorphism.</p> <p>Prerequisites: INSY 2840/284.</p>		
INSY 3120	<p>DECISION SUPPORT AND EXPERT SYSTEMS (3)</p> <p>This course is about the manager's responsibilities for problem solving and decision making, and about those areas in which computers can be used as tools to gain insight needed to support selection of decision alternatives. A decision support and/or expert system follows a reasoned, logical pattern based on criteria specified by an expert, and includes facts, rules, ad hoc procedures and the manipulation of quantified uncertainty factors. The system supports the assembly and organization of data, both on its own, and with the assistance of the user, and returns to the user added information and judgments useful in the development of analysis and decisions.</p> <p>Prerequisites: INSY 3280/328 or equivalent.</p>	3	3
INSY 3200	<p>BUSINESS PROBLEM SOLVING (3)</p> <p>An applied, case study-oriented course that helps business students apply MS Excel spreadsheet and the MS Access database management system to effectively test and analyze business cases and solve real-world business problems. It challenges students to use critical thinking analysis to come up with an effective solution to real-world problem.</p> <p>Prerequisites: INSY 1370/137.</p>	3	3
INSY 3250	<p>BUSINESS WEBSITE DEVELOPMENT (3)</p> <p>Fundamentals of developing effective websites including graphics and animation using web development tools such as: HTML, XHTML, CSS and JavaScript. Students will develop websites with a focus on information architecture and usability standards for business sector.</p> <p>Prerequisites: INSY 2900 or consent of department.</p>	3	3

INSY 3270	MANAGEMENT INFORMATION SYSTEMS (3) This course addresses the need for managers to understand and manage the technology necessary for competitive advantage in an increasingly dynamic business environment. Topics include the identification technological competencies, the evaluation of technology, the design and management of systems technological innovation and the integration of technology into the organization. Case studies will emphasize analysis of current business issues using technology such as spreadsheets and presentation graphics. Writing emphasis course. Prerequisites: INSY 1370/137 or consent of department.	3	3
INSY 3280	DATABASE SYSTEMS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>This is an introductory course in database management systems. It covers different topics included: Relational, Network and Hierarchical Models, E-R Model, and Normalization. The emphasis is on the relational database model. The class also gives the students the knowledge of SQL (Structured Query Language). SQL is the most commonly used database language in industry today. Students will practice designing and implementing enterprise database application using Database Management System packages.</p> <p>Prerequisites: INSY 1370/137 or consent of department.</p>		
INSY 4200	<p>PROJECT MANAGEMENT PRINCIPLES & PRACTICES (3)</p> <p>The course covers key components of project management including project integration, project scope management, project time and cost management, quality management, human resource considerations, communications, risk management, and procurement management. Upon successful completion of this course, students will be prepared to set for the Certified Associate in Project Management (CAPM) exam and who meet PMI exam requirements (see www.pmi.org) will be prepared to take the PMP exam as well.</p> <p>Prerequisite(s): INSY 3200 or consent of department.</p>	3	3

INSY 4250	MOBILE APPLICATION DEVELOPMENT (3) The main objective of this course is to provide students with the tools and knowledge necessary to create applications that can run on mobile devices. Topics will include memory management; user interface design; user interface building; input methods; data handling; network techniques; Mobile detection, geo-location and maps, Widgets and offline web apps. Students are expected to work on a project that produces a professional-quality mobile application. Prerequisites: INSY 2840/284	3	3
INSY 4300	SYSTEMS ANALYSIS AND DESIGN (3) Is a comprehensive study of the analysis, design, and implementation stages of the System Development Life Cycle (SDLC). The emphasis is on planning tools, information gathering techniques, data flow diagrams, E-R diagrams, project management tools: GANTT and PERT charts, and data dictionaries. Object-Oriented Analysis and Design (UML) will be	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	covered also. Student will participate in group to plan and design a total computer system. Prerequisites: INSY 3280/328 or consent of department.		
INSY 4400	INFORMATION CENTER FUNCTIONS (3) This course defines an information center as a specialized facility that makes available software tools and associated hardware from which users can select in order to build their own systems. This course then deals with an alternative to the traditional systems development life cycle for building systems. Here the emphasis is on how the prospective users can design and build their own systems by using the resources of the information center. These resources include the services of qualified systems professionals in addition to software and hardware support. Students learn how to use knowledge programming and fourth generation languages to design custom software to meet hypothetical and real life requirements and needs. Prerequisites: INSY 1360/136, INSY 3270/327 and INSY 3280/328 or equivalent.	3	3

INSY 4450	<p>DATA COMMUNICATION AND COMPUTER NETWORKS (3)</p> <p>This course introduces the students to computer networks and data communications in business. Course covers computer networking terminology, history, connectivity and topology. Participants gain essential knowledge in the principles of computer networking, associated computer services, and network planning and design. The benefits, costs, and security issues related to using computer networks are discussed, along with network design issues, and methodologies for network applications. The course additionally covers telecommunications infrastructure required to support integrated voice, data, and video.</p> <p>Prerequisites: INSY 3270/327 or consent of department.</p>	3	3
INSY 4470	<p>CLIENT/SERVER DEVELOPMENT (4)</p> <p>This course introduces the fundamental concepts of client/server development, provides a comprehensive introduction to the SQL language and covers issues involving designing, implementing, and testing client/server systems, n-tier client/server database application development, and web-based database applications. Students will have hands-on experience in developing web-based applications integrated with database technology.</p> <p>Prerequisites: INSY 3280/328 and INSY 3250.</p>	4	4
INSY 4480	<p>ETHICS IN IT (3)</p> <p>Ethics in Information Technology is designed to educate existing and future business managers and IT professionals on the tremendous impact ethical issues play in the use of information technology in the modern business world. The topics covered in this course are extremely current and relevant to anyone preparing to enter the field of IT. The course will give students the foundation they need to make appropriate decisions when faced with difficult situations and make a positive impact in the field of information technology.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: INSY 1370/137 or consent of department.		
INSY 4900	<p>SPECIAL TOPICS IN INFORMATION SYSTEMS (1 - 3)</p> <p>An exploration of special topics or current issues in the field of information systems. Offered irregularly. May be repeated for a maximum of six credit hours under different topics.</p> <p>Prerequisite: INSY 1370/137 or consent of the instructor.</p>	1	1

INSY 4990	<p>INDEPENDENT STUDY AND SPECIAL PROBLEMS (3)</p> <p>Designed for independent research and study of special information systems problems. A comprehensive research paper is required. Maximum of two enrollments, not in the same term, for a total of six credit hours.</p> <p>Prerequisite: Senior standing and consent of the department.</p>	3	3
INSY 5100	<p>INFORMATION SYSTEMS APPLICATIONS IN BUSINESS (3)</p> <p>This course is designed to introduce students to one of several areas of emerging information technology such as networking, electronic commerce, enterprise resource planning applications, etc. Students will learn the fundamental principles and concepts of a specific topic, its applicable technology, the design and implementation of the systems that support the area of study and methods for measuring efficacy. Evolving technologies will be addressed as appropriate, and their relevance to business pursuits will be discussed and analyzed. Lectures and case studies will be used to give the student a solid understanding of the topic. A group project to developed and present an area initiative/concept will be the capstone of this course.</p> <p>Prerequisite(s): Completion of all Foundation Courses.</p>	3	3
INSY 5300	<p>SYSTEM ANALYSIS AND DESIGN (3)</p> <p>This course focuses on using a systems approach to manage microcomputer-based projects. The emphasis is on planning tools, information gathering techniques, data flow diagrams, GANTT charts, and data dictionaries. Students will participate in groups to plan and design a total computer system.</p> <p>Prerequisite(s): INSY 3280/328</p>	3	3

Italian (ITAL)

Course	Course Description	Credit Hrs.	Contact Hrs.
ITAL 1010	ELEMENTARY ITALIAN I LECTURE AND LABORATORY /4 (3) Oral-aural mastery of basic grammar and vocabulary. Reading simple Italian texts. Additional course fee.	3	4
ITAL 1020	ELEMENTARY ITALIAN II LECTURE AND LABORATORY /4 (3) Continuation of Italian 1010. Additional course fee. Prerequisite: ITAL 1010 or consent of the department.	3	4
ITAL 2000	MODERN ITALIAN CULTURE (3) The study Italian culture, traditions, and customs as revealed in readings, art, and music.	3	3

Japanese (JPN)

Course	Course Description	Credit Hrs.	Contact Hrs.
JPN 1010	<p>ELEMENTARY JAPANESE I (3)</p> <p>Oral mastery of basic grammar and vocabulary, written practice of the two basic syllabaries and a basic understanding of some important sociolinguistic concepts. Additional course fee.</p>	3	3
JPN 1020	<p>ELEMENTARY JAPANESE II (3)</p> <p>Continuation of Japanese 1010/101.</p> <p>Prerequisite: JPN 1010/101 or equivalent.</p>	3	3
JPN 1100	<p>INTENSIVE BEGINNING JAPANESE (6)</p> <p>Intensive aural-oral Japanese. Simple texts in Japanese. Course covers one year of college Japanese. Credit cannot be given for JPN 1100/110, JPN 1010/101 and 1020/102.</p>	6	6

Kiswahili (KISW)

Course	Course Description	Credit Hrs.	Contact Hrs.
KISW 1010	KISWAHILI I (3) Beginning listening skills and oral communication in Kiswahili.	3	3
KISW 1020	KISWAHILI II (3) Continuing listening skills and oral communication in Kiswahili. Prerequisite(s): KISW 1010	3	3

Liberal Studies (LBST)

Course	Course Description	Credit Hrs.	Contact Hrs.
LBST 1099	<p>FRESHMAN SEMINAR IN LIBERAL STUDIES (1)</p> <p>Introduction to the expectations of the university. The nature of an [interdisciplinary] approach to learning. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life.</p> <p>Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.</p>	1	1
LBST 3000	<p>LIBERAL STUDIES FOUNDATIONS (2)</p> <p>Interdisciplinary approach to knowledge and information analysis, interpretation and presentation. Preliminary development of personal intellectual contract and learning plan.</p> <p>Prerequisites: Sophomore or Junior standing, completion of or concurrent registration in advanced writing class, or consent of department.</p>	2	2
LBST 4050	<p>INDEPENDENT STUDY IN LIBERAL STUDIES (1-3)</p> <p>Individually supervised study of selected topics. May be repeated for a maximum of six credit hours under different topics.</p> <p>Prerequisites: Junior standing or above and consent of the department.</p>	1	1
LBST 4900	<p>LIBERAL STUDIES CAPSTONE SEMINAR (3)</p> <p>Capstone seminar in Liberal Studies. Demonstration of interdisciplinary approach to knowledge analysis, interpretation, and presentation through completion of the senior project. Exploration of various themes focusing on the value of a liberal education. This course satisfies the senior thesis requirement.</p> <p>Prerequisites: ENG 2090/209 or ENG 2100/210 or ENG 2790/279 or ENG 2280/228 or ENG 2800/280 or ENG 2920/292;</p> <p>Co-requisites: Final semester as Liberal Studies Major and consent of department.</p>	3	3

Library Science (LIB)

Course	Course Description	Credit Hrs.	Contact Hrs.
LIB 5210		3	3

Library Infor & Media Studies (LIMS)

Course	Course Description	Credit Hrs.	Contact Hrs.
LIMS 5001	<p>MULTICULTURAL MATERIALS (3)</p> <p>A literature based approach to multicultural education using children's materials to depict experiences that are common to all, relating the things that make each group special and exploring the effects of racism on an individuals.</p>	3	3
LIMS 5002	<p>LIBRARY MATERIALS AND READING GUIDANCE FOR ELEMENTARY/SECONDARY TEACHERS (3)</p> <p>Focuses on children's and young adult's materials, stories, poems, nonfiction, films, recordings and their use in classrooms. Includes an examination of multicultural materials. (Not applicable for the master's degree sequence.)</p>	3	3
LIMS 5998	<p>SPECIAL TOPICS IN LIBRARY, INFORMATION, AND MEDIA STUDIES (3)</p> <p>Advanced study of selected topics in library, information, and media studies with emphasis on topics of contemporary relevance. May be repeated once for credit with a different topic area.</p> <p>Prerequisites: Admission to Master of Science in Library Science Program.</p>	3	3

Library Information Science (LIS)

Course	Course Description	Credit Hrs.	Contact Hrs.
LIS 1100	<p>LITERACY AND LEARNING IN THE 21ST CENTURY (3)</p> <p>Using 21st century literacy and learning skills, students will collaboratively investigate, analyze, and propose potential solutions for problems facing our students, campus, and community. This is a writing intensive course.</p> <p>Prerequisites: Completion of ENG 1230/1240, ENG 1270/1280 or consent of department.</p>	3	3
LIS 4000	<p>WORKSHOP ON LIBRARY MEDIA PROBLEMS (1-3)</p> <p>In-service course for teachers, librarians, media specialists, and administrators. Includes recent trends and practices in library media centers. Not applicable for master's degree sequence. May be repeated for a maximum of nine credit hours.</p> <p>Prerequisite: Consent of the department.</p>	1	1
LIS 4020	<p>MULTICULTURAL MATERIALS (3)</p> <p>A literature based approach to multicultural education using children's materials to depict experiences that are common to all, relating the things that make each group special and exploring the effects of racism on an individuals.</p>	3	3
LIS 4030	<p>LIBRARY MATERIALS AND READING GUIDANCE FOR ELEMENTARY AND SECONDARY TEACHERS (3)</p> <p>Focuses on children's and young adult materials-stories, poems, nonfiction, films, recordings, and their use in classrooms. Includes an examination of multicultural materials.</p>	3	3
LIS 4510	<p>DATABASE DESIGN FOR INFORMATION STORAGE AND RETRIEVAL (3)</p> <p>Provides introduction to database structure and design used in information storage and retrieval systems. Includes: components of a database, database system set-up, structure and functions of relational databases, design of simple database and a relational database.</p>	3	3

LIS 4580	INTRODUCTION TO INFORMATION ANALYTICS (3)	3	3
<p>Introductory course in information analytics. Fundamental concepts and developing inference using standard analytic techniques. Application of descriptive analytics including data mining. Introduction to predictive analytics including clustering, social network analysis, correlations, association rules and regression. Use of analytic technologies and applications.</p>			

Course	Course Description	Credit Hrs.	Contact Hrs.
LIS 4590	<p>INTRODUCTION TO INFORMATION VISUALIZATION (3)</p> <p>Introductory course in data visualization. Essential principles and theories of visualization. Knowledge discovery and use of visual representation to describe, explore and effectively communicate meaning in complex data sets. Use of visualization technologies.</p>	3	3
LIS 5000	<p>MEDIA RESOURCES FOR TEACHERS (2)</p> <p>Audiovisual production and equipment operation; materials utilization for classroom teachers.</p>	2	4
LIS 5050	<p>FOUNDATIONS OF THE INFORMATION PROFESSIONS (3)</p> <p>Creation, dissemination, and diffusion of knowledge systems in society, and the related roles and functions of information professionals and their institutions: libraries, archives, and museums among others. Provides a historical review of their organizational contexts, and the philosophical and ethical values and problems which define LIS as a field of study. Besides beginning their socialization to the LIS professions, this course also introduces students to graduate education, and CSU's MLS program.</p> <p>Prerequisites: Admission to the Graduate School and COE.</p>	3	3
LIS 5060	<p>ORGANIZATION OF INFORMATION (3)</p> <p>The concepts and methods for describing and organizing information and documents of all types and formats for identification and retrieval. Includes an examination and practice with standard organizational tools such as classification systems, subject headings, MARC records, metadata, and others. Also covers indexing languages, vocabulary management and thesauri systems; human and machine techniques; and rationals for decisions about the organization of materials in various contexts.</p>	3	3
LIS 5070	<p>INTRODUCTION TO REFERENCE SERVICES (3)</p> <p>Print and electronic information sources and services used to connect library users to the information they seek. Current principles and practices of reference service among different types of libraries and information centers, including school, academic, public, and special libraries are explored. Fifteen clock hours per term.</p>	3	3

LIS 5080	INFORMATION TECHNOLOGY FOR LIBRARY AND INFORMATION AGENCIES (3) Introduction to key concepts of information technology as they pertain to instruction and information processing and management in library and information agencies. Emerging technologies such as mobile, social and digital media and their applications in formal and informal education and information services. Practice exercises will include planning, implementation and evaluation of diverse service models. Cannot receive credit for MS 5050: AV Technology in Libraries.	3	3
LIS 5090	RESEARCH METHODS IN LIBRARY AND INFORMATION SCIENCE (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Research methods and their applications in Library and Information Science. Theoretical principles and practical procedures for planning, designing, conducting, analyzing, and evaluating research using qualitative, quantitative and mixed methods are introduced. Students produce a research proposal, and also learn to be informed consumers and critics of published Library and Information Science research.</p> <p>Prerequisites: LIS 5050</p>		
LIS 5095	LIBRARY LITERATURE AND RESEARCH (1) Evaluation of recent literature and research in the field of library and information science. Identification of needed literature to address specific research questions. Prerequisite: LIS 5090	1	1
LIS 5110	COMMUNICATIONS AND MEDIA CENTERS (3) History, theories and processes of communication and mass media as related to media centers.	3	3
LIS 5120	ADMINISTRATION OF MEDIA CENTERS (3) Survey of the problems in the management of media programs including formal methods of planning for resource based teaching. Methods of management and administration with emphasis on organizing staffing, financing, and use of evaluation standards. Designed to assist the student in developing an understanding of the application of management and administrative philosophies in all kinds of libraries including those for patrons with special needs. Fifteen clock hours of field experience per term.	3	4
LIS 5130	THE CURRICULUM AND THE MEDIA CENTER (3) Study and evaluation of the library resource center and the library information specialist in meeting curriculum needs.	3	3

LIS 5170	METHODS OF INSTRUCTION FOR SCHOOL LIBRARIANS (3) Provides candidates an authentic learning experience in a school library setting under the direct supervision of a licensed school librarian and trained as a supervising teacher for school librarian candidates. In placement sites approved by the College of Education, candidates will be able to demonstrate their ability to develop teaching skills and strategies for improving K-12 academic performance using edTPA standards. Initial teaching licensure candidates will actively engage in the development, delivery and assessment of instructional and administrative activities which support curricula and student achievement and must complete 75 field hours. Prerequisite(s): LIS 5120 and LIS 5130	3	3
LIS 5180	PRACTICUM IN PRIMARY & SECONDARY SCHOOL LIBRARY MEDIA CENTERS (1-2) Appropriate clinical experience in elementary and secondary library media centers. Forty-	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	five to one hundred clock hours of field experience per term.		
LIS 5185	LIBRARY INFORMATION SPECIALIST CERTIFICATION REVIEW (1) Preparation and practice for the Illinois State Library Information Specialist and the Assessment of Professional Teaching certification examinations for K-12 teachers. Prerequisites: Completion of all core courses in the School Library Information Specialist endorsement or MSLS program; enrollment required in semester before application for certification (endorsement students) or graduation (MSLS students).	1	1
LIS 5190	STUDENT TEACHING AND SEMINAR (6) Off-campus placement in both an elementary and secondary school in the library media center with both university and cooperating school supervision. Five full days for eight weeks at each level of instruction. Includes a seminar for the sixteen weeks. Prerequisite: Admission to the College of Education; completion of all coursework in the approved program; and a passing score on the subject matter/content area certification test within the last five years.	6	6
LIS 5200	ARCHIVES AND RECORDS ADMINISTRATION (3) Evolution of the recordkeeping professions and development of theories, principles and methods for identifying and administering records and recordkeeping systems. Emphasizes the history and changing concept of a record and recordkeeping systems, due to changing technology and standards for intellectual asset management and organizational effectiveness. Outlines responsibilities of archivists and records managers in libraries, archives, museums and special collections in private, public and non-profit environments.	3	3

LIS 5210	ARRANGEMENT AND DESCRIPTION IN ARCHIVES (3) Development of the intellectual framework and critical evaluation skills necessary for the arrangement and description of archival collections. Prerequisites: LIS 5200 or LIMS 5021	3	3
LIS 5220	ELECTRONIC RECORDS MANAGEMENT (3) Introduction to electronic record keeping and preservation for purposes of organizational effectiveness, documentation and memory, and institutional accountability. Provides a holistic approach from records definitions and formats, to computerized information systems (hardware and software), and long-term preservation; with special attention to socio-technical solutions, as well as behavioral, organizational and professional implications for best practices in creating creditable management operations with sustainable information bases. Prerequisites: LIS 5050 or 5520 or 5600 and ED 5999/499.	3	3
LIS 5240	CURATORSHIP OF HISTORICAL COLLECTIONS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Administration course applied to curatorship of historical collections in archives, museums, and libraries and other cultural and information environments. Focuses on acquisitions in the antiquarian market, management of collections, readers services, and public events, especially exhibits. Includes a laboratory component of planning, designing, mounting and evaluating an exhibit as a class project. Prerequisites: LIS 5050 or 5520 or 5600 and ED 5999/499.		
LIS 5250	BIBLIO-FORENSICS (3) Introduction to diplomatics (Form criticism in formal communications and information conveyance), Codicology (Manuscript Codex format analytics, including the basics of Paleography), and Analytical Bibliography (printed books, including Typography). Covers techniques in textual criticism and editing, historical research in primary sources, manuscript curatorship and rare book librarianship, advanced cataloging and preservation, documentation and formal communication studies. Includes documentary forensics for authentication and appraisal, forgery detection in criminal science, and foundations for conservation and preservation. Prerequisites: LIS 5050 or 5520 or 5600 and ED 5999/499.	3	3

LIS 5260	HISTORY OF RECORDED INFORMATION AND TECHNOLOGIES (3) Research seminar on the history of recorded information and technologies, primarily in the West but with some global context, writing, manuscripts, books, printing, multi-media, communications, electronic media, systems and networks from the alphabet to the Web. An historical survey is provided, with opportunity for in-depth research using primary sources. The focus is on information resources, cultural artifacts, media, publishing and transmission, and historic and modern communications from the physical to the electronic and virtual. Prerequisites: LIS 5050, 5060, 5090 and 5640.	3	3
LIS 5270	HISTORY OF ARCHIVES, LIBRARIES AND MUSEUMS (3) Research seminar on the history of recorded information and technologies, primarily in the West but with some global context, writing, manuscripts, books, printing, multi-media, communications, electronic media, systems and networks from the alphabet to the Web. An historical survey is provided, with opportunity for in-depth research using primary sources. The focus is on information resources, cultural artifacts, media, publishing and transmission, and historic and modern communications from the physical to the electronic and virtual, while a companion course focuses on their organizational and institutional counterparts, archives, libraries, museums and information centers.	3	3
LIS 5300	THE ACADEMIC LIBRARY (3) The principles and practices for academic libraries in higher education and academic research institutions. An introduction to the organization, management functions, operations, technology applications and information services.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
LIS 5350	THE PUBLIC LIBRARY (3) Examination of the role of the public library in society. Topics include public library history, current trends, organization and management, the role of the library board of trustees, funding sources including local, state and federal government, an assessment of public library clientele diversity, and a review of types of information resources, services and programming provided in public libraries.	3	3
LIS 5390	MANAGEMENT AND ORGANIZATION (3) A study of the organization and management of all types of libraries with emphasis on the role of the library/information professional as manager, the principles of planning, organizational change, decision making, and evaluation of current issues in personnel issues and financial management.	3	3

LIS 5500	INFORMATION STORAGE AND RETRIEVAL (3) Theories, principles and practices of information storage and retrieval systems, especially computer and information technology-based systems.	3	3
LIS 5510	DATABASE DESIGN FOR INFORMATION STORAGE AND RETRIEVAL (3) Introduction of database structure and design for information storage and retrieval systems used by library and information services.	3	3
LIS 5520	CATALOGING AND CLASSIFICATION (3) Introduction to principles and methods of descriptive cataloging, subject headings determination and classification focused primarily on monographs. Practical applications of Anglo-American Cataloging Rules II, Dewey Decimal and Library of Congress Classification Systems, Sears and Library of Congress Subject Headings List; and basics of online cataloging. Ten clock hours of field experience per term.	3	4
LIS 5530	METADATA AND CATALOGING (3) Theories, principles, standards, historical development and practices of metadata on descriptive cataloging of information resources. Includes brief traditional cataloging with an emphasis on metadata for organizing and describing various information resources in paper, electronic and digital formats. Includes 1 lab hour per week. Prerequisites: LIS 5060 or LIMS 5320	3	4
LIS 5540	COLLECTION DEVELOPMENT (3) An introduction to basic principles, practices, problems, and resources needed for selection and acquisition of library information materials.	3	3
LIS 5560	LIBRARY AUTOMATION (3) Theoretical overview of library automation with a focus on major library automation systems	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	such as Integrated Library Management System (ILS) and Online Public Access Cataloging (OPAC). Hands-on practical working exercises on client software which illustrate how information technology is applied to automate library operations such as library materials acquisition, circulation, cataloging, reference services, and information literacy instruction. Also covers planning, implementing and evaluating library automation projects. Prerequisites: LIS 5050 or 5520 or 5600 and ED 5999/499.		

LIS 5570	DIGITIZATION AND DIGITAL REPOSITORIES (3) Introduction to the design and management of a digital repository system for archives, material preservation, and repository management. Commonly used hardware and software, and the transition from paper to electronic records and conversion processes such as, scanning, digitizing, filing, data warehousing, and metadata. Prerequisites: LIS 5050 or 5520 or 5600 and ED 5999/499 or permission of the department.	3	4
LIS 5575	DIGITAL LIBRARY (3) Introduction to the principles, architecture, and practices of digital libraries. Includes design, management and delivery of digital information and services as well as metadata standards.	3	3
LIS 5580	MEASUREMENT AND EVALUATION FOR LIBRARY AND INFORMATION SCIENCE (3) Theoretical knowledge and practical skills necessary to measure and evaluate library and information services. Prerequisites: LIS 5090/LIMS 5310 and LIS 5390/5280.	3	3
LIS 5585	INTRODUCTION TO INFORMATION ANALYTICS (3) Introductory course in information analytics. Fundamental concepts in developing inference using standard analytic techniques. Application of descriptive analytics including data mining. Introduction to predictive analytics including clustering, social network analysis, correlations, association rules and regression. Use of analytic technologies and applications.	3	3
LIS 5590	INTRODUCTION TO INFORMATION VISUALIZATION (3) Introductory course in data visualization. Essential principles and theories of visualization. Knowledge discovery and use of visual representation to describe, explore and effectively communicate meaning in complex data sets. Use of visualization technologies.	3	3
LIS 5600	REFERENCE SOURCES AND METHODS (3) Examination of reference resources and the reference process. Focuses on the disciplinary	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	literature of social studies, humanities, and sciences. Prerequisite: LIS 5070		

LIS 5610	THE LIBRARY IN SOCIETY (3) Study of the foundations of library and information sciences including an examination of historical and current issues related to the role of libraries in society; and a review of changing trends.	3	3
LIS 5640	HUMAN INFORMATION BEHAVIOR (3) Examines human behavior as evidence of needs which require the seeking, searching, using and valuing of information for decision making, planning and problem solving. Seeks to describe and understand a variety of information processes drawing on relevant theories and models of cognitive and social psychology. Discusses implications for effective diagnosis of needs and the design of user-centered information services. Prerequisites: LIS 5050 or consent of the department.	3	3
LIS 5670	INFORMATION LITERACY INSTRUCTION (3) Application of theories and models of instructional design, learning, pedagogy and assessment to the challenges of teaching in the information professions. Case studies of a variety of instructional situations in face and online distance learning in one-on-one reference instruction, staff development workshops, Information Literacy tutorials and online workbook formats. Students will learn to apply a systematic process of assessing learning needs, and designing, teaching and assessing outcomes of instructional modules in a variety of formats. Prerequisites: LIS 5050 and 5070 or consent of the department.	3	3
LIS 5700	HISTORY OF LITERATURE FOR CHILDREN AND YOUNG ADULTS (3) In-depth examination of the history of literature for children and young adults from the 15th to the 20th century. Research the origin of nursery rhymes, fables, fairy tales, folktales, myths, legends, and tall tales from various countries.	3	3
LIS 5710	LITERATURE AND INFORMATION SERVICES FOR YOUNG ADULT (3) Study of literature, traditional and modern, from a young adult's point of view. Emphasis on the selection on the selection and evaluation of literature and resources for use by and with individuals between the ages of 13 - 22. Ten observation hours are required.	3	3
LIS 5720	LITERATURE AND INFORMATION SERVICES FOR CHILDREN (3) Study of literature, traditional and modern, for children. Emphasis is on the selection and evaluation of literature and resources for use by and with individuals between the ages of 3-12. Ten observation hours required.	3	3
LIS 5750	SEMINAR IN MULTICULTURAL MATERIALS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Collection development and use of multicultural materials. Types of multicultural materials, general and specific reference sources for children and adults.		
LIS 5770	<p>STORYTELLING AND FOLK LITERATURE (3)</p> <p>Materials, techniques, and practices in adapting folk and fairy tales, myths, legends, epics, picture books, realistic literature, historical literature to enhance storytelling presentations in a school curriculum and non-school setting.</p>	3	3
LIS 5900	<p>SEMINAR IN TRENDS AND PROBLEMS IN LIBRARIANSHIP (3)</p> <p>Problems, issues, and trends (historical and current) in libraries and librarianship. Topics vary according to interests and needs of students.</p>	3	3
LIS 5910	<p>SEMINAR IN INTERNATIONAL AND COMPARATIVE LIBRARIANSHIP (3)</p> <p>Discussion of issues related to the professions in library and information science in the United States and other countries based upon lectures and readings. In-depth research and writing involved.</p>	3	3
LIS 5920	<p>SURVEY OF TECHNOLOGY FOR LIBRARIES (3)</p> <p>An introduction to the use and the production of different media materials for the library/media center, including new technologies. (Ten clock hours of field experience per term.)</p>	3	4
LIS 5950	<p>INDEPENDENT STUDY (1-3)</p> <p>Independent study of an aspect of media or librarianship of interest to the student. (May be repeated with different content.)</p> <p>Prerequisite: Consent of the department.</p>	1	1
LIS 5970	<p>FIELD PRACTICUM /FIELD (3)</p> <p>Supervised experience in library media centers with appropriate written reports. Nine clock hours of field experience per term. May be repeated in a different setting.</p> <p>Prerequisite: Completion of twenty-eight credit hours in master's degree program and consent of the department.</p>	3	3
LIS 5980	<p>PROJECT SEMINAR (1-6)</p> <p>Guidance in researching and writing final project related to library and information science. This is a variable credit course that may be repeated until research is accepted by the department. Hours arranged. The grade assigned to the course should be T (extended grade).</p> <p>Prerequisite(s): LIS 5090</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
LIS 5989	<p>THESIS SEMINAR (1-6)</p> <p>Guidance in researching and writing thesis related to library and information science. This is a variable credit course that may be repeated until research is accepted by the department. Hours arranged.</p> <p>Prerequisite(s): LIS 5090 or consent of department.</p>	1	1
LIS 5990	<p>MSLS CAPSTONE (1)</p> <p>Provides opportunities for students to reflect on, and "show case" their portfolio, the outcome of the knowledge, skills, professional values and dispositions learned during their MSLS program. Students use this opportunity to demonstrate mastery of all MSLS Program Objectives and Learning Outcomes.</p> <p>Prerequisites: Consent of department.</p>	1	1

Mathematics (MATH)

Course	Course Description	Credit Hrs.	Contact Hrs.
MATH 0880	<p>TUTORIAL ALGEBRA (1)</p> <p>Elementary geometry, signed numbers, percents, ratios, linear equations, exponents, operations on polynomials, and applications. Credit does not count toward graduation. Graphing calculator is required.</p> <p>Prerequisite: placement examination.</p>	1	1
MATH 0910	<p>ILLINOIS TEACHER CERTIFICATION REVIEW OF BASIC SKILLS IN MATHEMATICS (1)</p> <p>Review of mathematics concepts, skills, and problem solving to prepare the basic skills mathematics portion of the state teacher certification examination. May be repeated. Credit may not be used toward graduation.</p> <p>Prerequisites: Completion of mathematics requirements in the student's major, or consent of department</p>	1	1
MATH 0920	<p>ILLINOIS MATHEMATICS TEACHER CERTIFICATION REVIEW (1)</p> <p>Review of mathematics concepts and problem solving to prepare for state teacher certification examination. May be repeated. Credit does not count toward graduation.</p> <p>Prerequisite: MATH 2430/263 or consent of the department.</p>	1	1
MATH 0990	<p>APPLIED INTERMEDIATE ALGEBRA (4 OR 8)</p> <p>Level 1: Elementary geometry, signed numbers, applications of percents, ratios, and linear equations; equations of lines, exponents, operations on polynomials.</p> <p>Level 2: More in-depth study of Level 1 topics; systems of equations, graphing, rational expressions, quadratics and radicals.</p> <p>Credit does not count toward graduation. Graphing calculator is required.</p> <p>Prerequisite: By placement examination in the appropriate level.</p>	4	4
MATH 1010	<p>CONCEPTS OF MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS I /4 (3)</p> <p>Patterns and problem solving, numeration systems, functions, algorithms for whole numbers, integer, decimal, and rational number operations (addition, subtraction, multiplication, division), divisibility tests, GCD, LCM, ratio and proportion, percents, statistical graphs, measures of central tendency and variation.</p>	3	4

MATH 1020	CONCEPTS OF MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS II /4 (3) Points, lines, planes, curves, angles, three-dimensional figures, congruence, similarity, construction, English system, metric system, perimeter, area, volume, Pythagorean	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	theorem, probability. IAI: M1 903. Prerequisite: MATH 1010/140.		
MATH 1040	MATHEMATICS FOR DATA SCIENCE 1 (4) This course will cover sets, Venn diagrams, counting, tree diagrams, applications; percentages, data on spreadsheets, interest rates, mortgages, real-world applications; functions, inequalities, graphs on the Cartesian plane, slope, equations of lines, linear models, graphs of two-variable inequalities; basic non-competitive game theory, Nash equilibrium or graph theory, modelling computer, social, and transportation networks.	4	4
MATH 1080	QUANTITATIVE LITERACY (3) Develops conceptual understanding for problem solving and decision making; uses analytic skills including statistical measures, graphs of functions, estimation, and selection and use of appropriate approaches for formulating and solving real world problems. Graphing calculator required. May be taken before or after MATH 1700/121.	3	3
MATH 1195	COLLEGE ALGEBRA LABORATORY (2) The Lab component is designed for students currently registered in MATH 1200. Individualized and group setting provide additional practice and explanation of topics in MATH 1200. Provides hands-on activities, projects, and practical applications of algebra. Pass/Fail course. Co-requisite(s): MATH 1200	2	2
MATH 1200	COLLEGE ALGEBRA /4 (3) The course is designed to familiarize learners with algebraic manipulations, modelling with functions, translations and reflections of functions, real-world data applications that relate to student lives. Prerequisite(s): Placement Test Co-requisite(s): MATH 1195 as a co-requisite for those who were not placed in MATH 1200.	3	4

MATH 1210	COLLEGE ALGEBRA AND TRIGONOMETRY /4 (3) Exponential and logarithmic functions, systems of equations, trigonometric functions, solution of triangles, mathematical induction, sequences, polar coordinates, and conics. Graphing calculator required. Prerequisite: MATH 1200/162 or by placement examination.	3	4
MATH 1250	PRECALCULUS MATHEMATICS /6 (5)	5	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Sets; real numbers; theory and application of functions and inverse functions; trigonometric functions; complex numbers; exponentials and logarithms; matrices and determinants; vectors. Graphing calculator required. Prerequisite: Consent of the department.		
MATH 1400	BASIC CALCULUS (3) Functions and limits; the derivative and its applications; the integral and its applications. Graphing calculator required. IAI: M1 900. Prerequisite: MATH 1200/162 or 1250/171 or by placement examination.	3	3
MATH 1410	CALCULUS I (4) Limits and continuity, derivatives of algebraic and trigonometric functions, chain rule, applications (such as extreme problems, related rates, graphing), antiderivatives, definite integral, applications (such as area, volume, work, force). Graphing calculator required. IAI: M1 900, EGR 901, MTH 901. Prerequisite: MATH 1210/163 or MATH 1250/171 or by placement examination.	4	4
MATH 1415	CALCULUS FOR LIFE SCIENCES I (4) Sequences, difference equations, discrete time models, limits, continuity, differentiation and anti-differentiation of algebraic, trigonometric, and transcendental functions, chain rule, applied problems on maxima and minima, equilibria and stability, basic differential equations, and the fundamental theorem of calculus. CAS, modeling, and imaging programs. Strong emphasis on biological models using real biological data. Additional course fee. Prerequisites: Math 1210/163 or Math 1250/171; or by placement examination.	4	4

MATH 1420	CALCULUS II (4) Calculus of the exponential, logarithmic, and trigonometric functions, techniques of integration, l'Hopital's rule, improper integrals, infinite series, and polar coordinates. Graphing calculator required. IAI: M1 900, EGR 902, MTH 902. Prerequisite: MATH 1410/261 or by placement examination; MATH 1900/180 (or concurrent enrollment).	4	4
MATH 1500	INTRODUCTION TO FINITE MATHEMATICS (3) Probability; model building; linear programming; matrices. Emphasis on applications in business and social science. Graphing calculator required. IAI: M1 906. Prerequisite: MATH 1200/162 or 1250/171 or by placement examination.	3	3
MATH 1600	BASIC PROBABILITY AND STATISTICS (3) Sample spaces; set functions; probability; random variables; probability distributions;	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	mean, median, and standard deviations; sampling; hypothesis testing; tests concerning means. Graphing calculator required. IAI: M1 902. Prerequisite: Math 1200/162 or 1250/171 or by placement examination.		
MATH 1700	INTRODUCTION TO MATHEMATICAL THOUGHT (3) Mathematical reasoning and solving real world problems. In depth study of three or four of the following topics: geometry, counting techniques and probability, graph theory, logic/set theory, mathematical modeling, game theory, and linear programming. Graphing calculator required. IAI: M1 904.	3	3
MATH 1900	INTRODUCTION TO MATHEMATIC PROFESSIONS (1) A survey of career opportunities for mathematics professionals in industry, government, and education. Overview of the skills, training, strategies, and education required for the various occupations and mathematics curricula. Introduction to the resources available to aid the mathematics major. May not be used to fulfill general education requirements. Prerequisite: MATH 1210/163	1	1
MATH 2200	LINEAR ALGEBRA (3) Matrices and vectors; transformations and matrices; matrix and vector products; determinants; applications. Graphing calculator required. Prerequisite: MATH 1210/163 or 1250/171 or by placement examination.	3	3

MATH 2300	INTRODUCTION TO HIGHER MATHEMATICS (3) Techniques of proof through the study of concepts used in higher mathematics courses. Set theory, logic, epsilon-delta proofs, proof by contradiction, equivalence relations, functions, cardinality, mathematical induction. Prerequisites: Math 1420/262	3	3
MATH 2430	CALCULUS III (4) Parametric equations, vectors and vector functions, calculus of functions of several variables, gradients, multiple integrals, line integrals, Green's theorem. Graphing calculator required. IAI: M1 900, EGR 903, MTH 903. Prerequisite: MATH 1420/262.	4	4
MATH 2550	DIFFERENTIAL EQUATIONS (4) First order differential equations with applications; numerical methods, linear differential equations with applications, power series, and Laplace transforms. IAI: EGR 904 MTH 912.	4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: MATH 2430/263.		
MATH 2800	DISCRETE MATHEMATICS (3) Relations, functions, permutations, combinations, sets, logic, Boolean algebra, graph theory. Credit is given for only one of the following: MATH 300, MATH 303, or MATH 283. IAI: M1 905, CS 915. Prerequisite: CPTR 1100/141; MATH 1200/162 or 1250/171, or HON 1300/130 and HON 1310/131.	3	3
MATH 2810	INTRODUCTION TO RESEARCH IN BIO-MATHEMATICS (3) Introduction to mathematical software in biological modeling, difference equations in Microsoft Excel, matrix methods, eigenvalues, linearization and stability, equilibria. Further topics may include: phylogenetics, population dynamics, and ecology. Data will be collected in the field. Term paper required. Credit not given for both MATH 2810/251 and BIOL 2810/251. Prerequisite: Math 2200/201; Biol 1070/107 and 1080/108 or consent of department.	3	4

MATH 3210	MATHEMATICAL LOGIC (3) A formal study of the propositional calculus and the predicate calculus, including formal semantics and axiomatizations. Completeness theorems for both systems will be proven. Prerequisite: Math 1410/261 and Math 2300/230.	3	3
MATH 3510	MATHEMATICAL METHODS OF PHYSICS I (3) Coordinate systems, vector analysis, boundary value problems, matrices and tensors, complex variables. Credit will not be given to both PHYS 3450/345, and MATH 3510 or MATH 4800. Prerequisites: PHYS 2330/233; MATH 2200/201; MATH 2550/271.	3	3
MATH 3520	MATHEMATICAL METHODS OF PHYSICS II (3) Special functions, Fourier analysis, Green's functions, Calculus of Variations, Non-linear methods and Chaos, Probability. Study of applications of mathematics to physics. Credit not given for both PHYS 4460 and MATH 3520. Prerequisites: PHYS 3450/345 or MATH 3510.	3	3
MATH 3630	REVIEW FOR ACTUARIAL EXAMINATION 100 /3 (2) Specifically designed for preparation for Actuarial Examination 100. Emphasis on problem solving. Practice examinations. Prerequisite: Grade of C or better in MATH 2200/201, 1410/261, 1420/262, 2430/263, and 2550/271.	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MATH 3800	THEORY OF INTEREST (3) Measure of interest, accumulated and present value factors, annuities certain, yield rates, amortization schedules and sinking funds, bonds and related securities. Spread sheets used. Prerequisite: MATH 1420/262	3	3
MATH 3820	VIROLOGY LECTURE AND LABORATORY /6/ (4) Viral structure and function. Characterization of bacteriophage and viruses of clinical importance. Application of modern techniques for isolation and characterization of bacteriophages. Credit will not be given for both BIOL 4250/325 and 5250/425. Additional course fee. Prerequisite: BIOL 3690/269 and CHEM 2510/254 or equivalent.	3	3

MATH 4000	TEACHING MATHEMATICS IN SECONDARY SCHOOLS (GRADES 6 - 12) / FIELD (3) Methods of teaching mathematics in high school grades 9-12 and middle school grades 6-8. Thirty hours of tutoring middle grade and high school grade students. May not be used toward mathematics requirements for a major or minor in mathematics. Prerequisite: MATH 2200/201, MATH 2430/263, MATH 4110/342; admission to College of Education; MATH 0920/092, CAS 2630/363, MATH 4010/347 or CPTR 1100/141; ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in MATH 0920/092, CAS 2630/363, MATH 4010/347 or CPTR 1100/141; ELCF 4500/353 and READ 4100/306); or consent of the department.	3	3
MATH 4005	STUDENT TEACHING AND SEMINAR - SECONDARY LEVEL /FIELD (6) Off-campus placement in secondary schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. May not be used to satisfy mathematics requirements for a major or minor in mathematics. Prerequisite: Admission to the College of Education. Completion of all coursework required in the program with a grade of C or higher; a 2.5 GPA in all coursework; a 2.5 GPA in area of specialization; consent of department; and a passing score on the subject matter/content area test within the last 5 years.	6	6
MATH 4010	TECHNOLOGY IN THE HIGH SCHOOL MATHEMATICS CLASSROOM (3) Appropriate technological tools, including spreadsheets, geometry software, computer algebra systems, statistical packages, graphing calculators, data-collection devices, presentation software. Prerequisite(s): One 300-level or high mathematics course.	3	3
MATH 4020	MATHEMATICS FOR HIGH SCHOOL TEACHERS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Advanced perspective in mathematics for pre-service and in-service high mathematics teachers; topics include geometry, functions, numbering systems, proofs. Course work require writing in the AMS format a significant project and its presentation. Satisfies senior thesis requirement. Prerequisites: MATH 2430/263, MATH 4110/342, and an additional 300-level or higher mathematics course (or concurrent enrollment).		

MATH 4040	NUMBER THEORY FOR MIDDLE SCHOOL TEACHERS (3) Prime numbers. Euclidean algorithm. Greatest common divisors and least common multiples. Modular arithmetic. Diophantine equations. Integration of the content in elementary and middle school. May not be used for graduation credit in mathematics or mathematics secondary education options. Prerequisite: MATH 1020/141 or MATH 1200/162 or equivalent and a 200-level mathematics course.	3	3
MATH 4050	GEOMETRY FOR MIDDLE SCHOOL TEACHERS (3) Incidence relation, angles, congruence, measurement, compass-and-straightedge constructions, circles, similarity, right-triangle trigonometry, area, volume, coordinate geometry in two and three dimensions, polygons, arcs and arc length. Integration of content in the elementary and middle school. May not be used for graduation credit in mathematics or mathematics secondary education options. Prerequisite: MATH 1020/141; or MATH 1200/162 or HON 1300/130 & HON 1310/131; and a 200-level mathematics course.	3	3
MATH 4060	MODERN ALGEBRA FOR MIDDLE SCHOOL TEACHERS (3) An introduction to modern algebra. Topics chosen from: groups, rings, fields and their applications. May not be used for graduation credit in mathematics or mathematics secondary education options. Prerequisite: MATH 1020/141 or MATH 1200/162, or HON 1300/130 & HON 1310/131 or equivalent; and a 200-level mathematics course.	3	3
MATH 4070	HISTORY OF MATHEMATICS FOR MIDDLE SCHOOL TEACHERS (3) The historical basis of numeration, operations, geometry, algebra, trigonometry and calculus. The cultural aspect of mathematics and its contributions to knowledge and learning. Integration of content in the elementary and middle school. May not be used for graduation credit in mathematics or mathematics secondary education options. Prerequisites: Math 1400/209 and Math 4050/305 or equivalent.	3	3
MATH 4110	GEOMETRY (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Incidence geometry, distances, measure, congruences, inequalities, parallel postulate, perpendicular lines and planes, similar triangles, polygons, circles and spheres, construction with ruler and compass. Writing emphasis course. Prerequisite: MATH 1410/261 and MATH 2300/230.		

MATH 4210	ELEMENTARY NUMBER THEORY (3) Properties of integers, divisibility, greatest common divisors, primes, congruences, Diophantine equations, arithmetic functions, quadratic residues. Prerequisite: MATH 1410/261 and MATH 2300/230.	3	3
MATH 4230	MATRICES AND LINEAR TRANSFORMATIONS (3) Vector spaces, bases, dimensionality, linear transformations, determinants, matrices, matrix inversion, rank, equivalence. Prerequisite: MATH 2200/201 and 1420/262.	3	3
MATH 4250	INTRODUCTION TO MODERN ALGEBRA I (3) Basic properties of groups, order, cyclic groups and their structure theorems. Normal subgroups, cosets and Lagrange's theorem, group homomorphisms, factor groups, direct products, and the isomorphism theorems; permutation groups. Basic properties of rings, integral domains, fields, ideals, ring homomorphisms; polynomial and power series rings. Prerequisites: MATH 1420/262, MATH 2200/201 and MATH 2300/230.	3	3
MATH 4260	INTRODUCTION TO MODERN ALGEBRA II (3) Group action, conjugacy classes, class equation, Cauchy's theorem and p-groups, applications of Sylow theorems. Principal ideal domains, Euclidean domains, unique factorization domains. Maximal and prime ideals, rings of matrices, polynomial rings of several variables. At instructor's discretion more topics from finite fields, and/or coding theory, and topics for undergraduate research in algebra. Prerequisites: MATH 4250/361.	3	3
MATH 4410	INTRODUCTION TO REAL VARIABLES (3) Real numbers, real functions, limits, continuity, uniform continuity, differentiability, mean value theorems, theory of the Riemann integral. Prerequisite: MATH 2430/263 and 2300/230.	3	3
MATH 4450	INTRODUCTION TO COMPLEX VARIABLES (3) Complex numbers and complex space, differentiation and integration of elementary functions, infinite series, Taylor and Laurent expansions, Cauchy's theorems and applications.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: MATH 2430/263 and MATH 2300/230.		

MATH 4510	NUMERICAL ANALYSIS I (3) Solution of linear systems by direct and iterative methods, matrix inversion, evaluation of determinants, characteristic values and vectors of matrices, application of boundary value problems in ordinary differential equations, numerical solution of partial differential equations. Prerequisite: MATH 2430/263.	3	3
MATH 4520	NUMERICAL ANALYSIS II (3) Continuation of mathematics 4510/354. Prerequisite: MATH 4510/354.	3	3
MATH 4600	INTRODUCTION TO STATISTICS LECTURE AND LABORATORY /5 (4) Descriptive statistics, discrete and continuous random variables, expectation, distribution functions, central limit theorem, point estimation, confidence intervals, and hypothesis testing. SAS Laboratory. Additional course fee. Prerequisite: MATH 1420/262.	4	5
MATH 4650	PROBABILITY AND MATHEMATICAL STATISTICS (3) Moment generating functions, transformations of random variables, Bayes Theorem, sufficiency, likelihood estimators, Chi-square tests, regressions and contingency tables. SAS used. Prerequisite: MATH 2430/263 and 4600/315.	3	3
MATH 4710	HISTORY OF MATHEMATICS (3) Chronological survey of the growth and contributions of mathematics to knowledge and learning. Prerequisite: MATH 1420/262 and 4110/342, or equivalent.	3	3
MATH 4840	INTRODUCTION TO OPERATIONS RESEARCH (3) Linear programming, game theory, dynamic programming, graph theory and Markov chains. Emphasis on applications in business, industry, and behavioral sciences. Prerequisite: MATH 2200/201 or 1500/214; and MATH 1400/209 or 1410/261.	3	3
MATH 4900	SPECIAL TOPICS IN MATHEMATICS (1-3) Topics of current mathematical interest. May be repeated for credit if different topics	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>are presented.</p> <p>Prerequisite: To be determined by instructor and consent of the department.</p>		
MATH 4920	<p>MATHEMATICS INTERNSHIP (3-6)</p> <p>A student project or activity in a mathematics environment outside the department where the techniques of mathematics are applied in an essential way. Activity to be performed must be approved in advance by the department. A written final report is required. Course may be repeated for a total of up to nine semester hours.</p> <p>Prerequisite: Grade of C or higher in three 300-level mathematics courses earned 80 semester hours toward a baccalaureate degree, and a major in mathematics; or consent of the department.</p>	3	3
MATH 4940	<p>MATHEMATICS SEMINAR (3)</p> <p>Investigation of mathematical models in fields such as natural sciences, business and engineering. Scientific calculators, graphical calculators, and current computer software will be used. Specific topics will vary. Course work require writing in the AMS format a significant project and its presentation. Satisfies senior thesis requirement.</p> <p>Prerequisite: MATH 2430/263 and nine credit hours of mathematics courses numbered 4230/308 or above.</p>	3	3
MATH 5000	<p>CONTINUING EDUCATION TOPICS FOR PRIMARY SCHOOL MATHEMATICS TEACHERS (1-3)</p> <p>An exploration of both content and pedagogical topics for teachers of primary school mathematics. Topics may include new curriculum programs, materials and teaching strategies, calculators and computers, number systems, operations of arithmetic, and problem solving, as well as topics of current interest. A hands-on approach using manipulative and concrete models will be a focus for the course. May be repeated for up to a maximum of six credit hours. Cannot be used to satisfy requirements for certification or for a bachelor's or master's degree.</p> <p>Prerequisite: Standard Teaching Certificate.</p>	1	1
MATH 5005	<p>CONTINUING EDUCATION TOPICS FOR MIDDLE SCHOOL MATHEMATICS TEACHERS (1-3)</p> <p>An exploration of both content and pedagogical topics for teachers of middle school or junior high school mathematics. Topics may include new curriculum programs, materials and teaching strategies, calculators and computers, geometry, probability and statistics, relations, equations and problem solving, as well as other topics of current interest. May be repeated for up to a maximum of six credit hours. Cannot be used to satisfy requirements for certification or for a bachelor's or master's degree.</p> <p>Prerequisite: Standard Teaching Certificate</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
MATH 5010	<p>A REVIEW OF MATHEMATICAL TOPICS (3)</p> <p>A review of the basic elements of calculus, linear algebra, and the nature of proof. Cannot be used for Master's degree.</p> <p>Prerequisite: Bachelor's degree and consent of the department.</p>	3	3
MATH 5020	<p>RECENT TRENDS IN MATHEMATICS (3)</p> <p>Course for in-service teachers. Changes in the teaching, philosophy, and course content of pre-collegiate mathematics. Cannot be used for Master's degree.</p> <p>Prerequisite: Bachelor's degree and/or consent of the department.</p>	3	3
MATH 5040	<p>NUMBER THEORY FOR MIDDLE SCHOOL TEACHERS (3)</p> <p>Prime numbers. Euclidean algorithm. Greatest common divisors and least common multiples. Modular arithmetic. Diophantine equations. Integration of the content in elementary and middle school. May not be used for graduation credit in mathematics or mathematics secondary education options.</p> <p>Prerequisite: MATH 1020/141 or MATH 1200/162 or equivalent and a 200-level mathematics course.</p>	3	3
MATH 5050	<p>GEOMETRY FOR MIDDLE SCHOOL TEACHERS (3)</p> <p>Incidence relation, angles, congruence, measurement, compass-and-straightedge constructions, circles, arcs and arc length, polygons, similarity, right-triangle trigonometry, area, volume, coordinate geometry in two and three dimensions.</p> <p>Integration of content in the elementary and middle school. Cannot be used for Master's degree.</p> <p>Prerequisite: MATH 1020/141 or MATH 1200/162 or HON 1300/130 and 1310/131; and a 2000-level mathematics course.</p>	3	3
MATH 5060	<p>MODERN ALGEBRA FOR MIDDLE SCHOOL TEACHERS (3)</p> <p>Groups, rings, fields and their applications. Integration of content in the elementary and middle school. Cannot be used for Master's degree.</p> <p>Prerequisite: MATH 1210/141 or MATH 1200/162 or HON 1300/130 & 1310/131 or equivalent; and a 200-level mathematics course.</p>	3	3

MATH 5070	HISTORY OF MATHEMATICS FOR MIDDLE SCHOOL TEACHERS (3)	3	3
	The historical basis of numeration, operations, geometry, algebra, trigonometry, and calculus. The cultural aspect of mathematics and its contributions to knowledge and learning. Integration of content in the elementary and middle school. May not be used for graduation credit in mathematics or mathematics secondary education options.		

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: MATH 1400/209 and MATH 4050/305 or equivalent		
MATH 5080	PROBABILITY AND STATISTICS FOR TEACHERS (3)	3	3
	Basic elements of probability and statistics with special emphasis on teaching strategies. Cannot be used for Master's degree. Prerequisite: Bachelor's degree and consent of the department.		
MATH 5090	CALCULUS FOR TEACHERS I (3)	3	3
	A review of the basic elements of calculus with special emphasis on teaching strategies. Cannot be used for Master's degree. Prerequisite: Bachelor's degree and consent of the department.		
MATH 5095	CALCULUS FOR TEACHERS II (3)	3	3
	A continuation of MATH 5090/309. Cannot be used for Master's degree. Prerequisite: MATH 5090/309 or consent of the department.		
MATH 5120	CONCEPTS OF GEOMETRY I (3)	3	3
	Axiom systems, Euclidean geometry, non-Euclidean geometry, theory of incidence, theory of order, affine geometries, similarity and congruence, models of geometries, distance and measurement, ruler and compass constructions. Prerequisite: MATH 4110/342.		
MATH 5130	PROJECTIVE GEOMETRY (3)	3	3
	Analytic and axiomatic projections, theory of conic sections, Pascal's and Branchon's theorems, linear transformations. Prerequisite: MATH 4110/342.		

MATH 5140	DIFFERENTIAL GEOMETRY (3) Theory of curves and surfaces in Euclidean space, Frenet-Serret formulas, Gaussian curvature, geodesics. Prerequisite: MATH 4410/358.	3	3
MATH 5180	POINT SET TOPOLOGY (3) Concept of topology, topological and metric spaces, continuity, connectedness, generalized limits, separation concepts. Prerequisite: Consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MATH 5210	NUMBER THEORY (3) Selected topics in classical, analytic, and algebraic number theory. Prerequisite: MATH 4210/327 or equivalent.	3	3
MATH 5220	MODERN ALGEBRA I (3) Group Theory: group action, Sylow theorems, simple and solvable groups. Field Theory: Galois correspondence, radical extensions, algebraic and transcendental extensions, finite fields. Prerequisites: MATH 4250/361.	3	3
MATH 5230	MODERN ALGEBRA II (3) Continuation of MATH 5220/420. Prerequisite: MATH 5220/420.	3	3
MATH 5245	COMPLEX ANALYSIS II (3) Harmonic functions and the Dirichlet problem. Introduction to Riemann surfaces. Negative curvature and Picard's Big Theorem. Further topics may include: Hardy spaces, Corona theorem, a deeper study of Riemann surfaces, the uniformization theorem. Prerequisites: Math 5440/422	3	3

MATH 5250	COMMUTATIVE ALGEBRA (3) Introduction to commutative rings and modules over commutative rings. Chain conditions, Noetherian and Artinian rings. Localization. Finitely generated algebras over a field, varieties. Further topics may include: discrete valuation rings and Dedekind domains, completions, Nullstellansatz. Prerequisites: Math 5220/420, Math 5230/421.	3	3
MATH 5310	MODERN APPLIED ALGEBRA (3) Algebraic theory with applications to theoretical computing. Topics include finite state automata, Turing machines, computability, the theoretical limits of computers, and coding theory. Prerequisite: MATH 4250/361.	3	3
MATH 5320	INTRODUCTION TO COMPUTATIONAL ALGEBRAIC GEOMETRY (3) Geometry of curves/surfaces defined by polynomial equations. Emphasis on concrete computations with polynomials using computer packages, interplay between algebra and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	geometry as well as algebra and biology. Algebra and topology presented as needed. Prerequisites: MATH 5220/420.		
MATH 5410	THEORY AND APPLICATION OF INFINITE SERIES (3) Infinite series of real and complex terms including the summability methods of Abel and Cesaro; tests for convergence of series of positive constants including those of Cauchy, Maclaurin, Gauss; alternating series; conditional convergence and Riemann's theorem; absolute and uniform convergence; theorems of Weierstrass, Cauchy, Abel, Levi and Sternitz; introduction to the theory of divergent series. Prerequisite: MATH 4410/358.	3	3
MATH 5420	ANALYSIS I (3) Functions of bounded variation, Riemann-Stieljes integral, topology of the real line, measure theory, measurable functions, Lebesgue integral, other selected topics. Prerequisites: MATH 4410/358.	3	3

MATH 5430	ANALYSIS II (3) Continuation of Math 5420/415: Radon-Nikodym theorem, L_p spaces, Riesz Representation theorem, functions of several variables, inverse and implicit function theorems, smooth manifolds, tangent and cotangent bundles, vector bundles, differential forms, pullback, wedge product, integration, Poincare lemma. Prerequisites: MATH 5420/415.	3	3
MATH 5440	COMPLEX VARIABLES I (3) Complex numbers and polygenic and monogenic functions, theory of residues, Taylor and Laurent series, Cauchy-Riemann and Laplace equations. Prerequisite: MATH 4450/356 or 4410/358.	3	3
MATH 5470	FUNCTIONAL ANALYSIS (3) Hahn-Banach theorem, weak topologies, operators on Hilbert and Banach spaces, normal, self-adjoint and compact operators, geometric and spectral analysis of linear operators, generalized functions. At instructor's discretion: applications to Fourier series, numerical analysis, probability and dynamics, or differential equations will be discussed. Prerequisites: MATH 5420/415.	3	3
MATH 5510	ADVANCED ORDINARY DIFFERENTIAL EQUATIONS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Boundary value problems, linear differential equations with periodic coefficients, nonlinear differential equations, perturbation theory, Poincare's method. Prerequisite: MATH 2550/271 and 4410/358		
MATH 5520	PARTIAL DIFFERENTIAL EQUATIONS (3) Classical solutions of first and second order partial differential equations, Bessel and Legendre functions, orthogonal functions, solutions of boundary value problems by the separation of variables and integral transformations, Laplace's equation, wave equation. Prerequisite: MATH 2550/271 and 4400/358	3	3

MATH 5550	ADVANCED NUMERICAL METHODS (3) Difference equations, iteration, Aitken's delta square method, Steffenson's method, Bairstow's method, Bernoulli's method, and the quotient-difference algorithm. Additional topics may include Mesh-free methods, finite element methods, spectral methods, Galerkin type methods, and fast Fourier transform methods. Prerequisites: MATH 2550/271, 4410/358 or 4510/354.	3	3
MATH 5560	INTERPOLATION AND APPROXIMATION (3) Interpolation via polynomials, orthogonal families of polynomials, spline interpolation, least squares methods, and Fourier methods. Additional topics may include radial basis function methods, and convolution kernel based methods. Prerequisites: MATH 5550/441.	3	3
MATH 5610	MATHEMATICAL STATISTICS I (3) Random variables, conditional probability, multidimensional distributions, functions of random variables, central limit theorem, limiting distributions. Option of partially fulfilling the requirements of the course with an industrial or Government partner. Prerequisite(s): MATH 4600/315	3	3
MATH 5620	MATHEMATICAL STATISTICS II (3) Test of hypothesis, point estimation, confidence intervals, sufficient statistics, Rao Blackwell theorem, multivariate analysis. Prerequisite: MATH 5610/471.	3	3
MATH 5630	BAYESIAN STATISTICS (3) Bayesian networks, Bayes' rule to transform prior probabilities into posterior probabilities, Bayesian methods to several practical problems, end-to-end Bayesian analyses from framing the question to building models to eliciting prior probabilities to	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	implementing the final posterior distribution in applicable software. Credible regions, Bayesian comparisons of means and proportions, Bayesian regression and inference using multiple models, and Bayesian prediction. Credit cannot be received for both MATH 5630 and CPTR 5630; they are equivalent courses. Prerequisite(s): Consent of department.		

MATH 5710	MATHEMATICS CURRICULUM IN GRADES 7-12 (3) The history of curriculum, content, and trends in mathematics of grades 7-12; study and analysis of major reports, recommendations, and theories in mathematics curricula and teaching and learning; issues and trends in assessment practices; study and analysis of reform movements and their effect in curricular designs, practices, and beliefs of mathematics and mathematics teaching and learning. Prerequisites: Consent of the Graduate Adviser.	3	3
MATH 5780	RESEARCH AND PRACTICES IN MATHEMATICS EDUCATION (3) Survey and analysis of research in the field of mathematics education; issues, research, and practices in teaching and learning of mathematics; critiques and conduct of research in the teaching and learning of mathematics. Prerequisites: Consent of the Graduate Adviser.	3	3
MATH 5810	MATHEMATICAL MODELS AND APPLICATIONS (3) Modern application of mathematics in such fields as economics, industrial management, psychology, political science, biology, ecology, and geography for high school classroom utilization. Prerequisite: High school mathematics teaching experience and consent of the department.	3	3
MATH 5820	GEOMATICS (3) Mathematics of surveying and geodesy. Topics include: surveying mathematics, correction for varying index of refraction with altitude, spherical trigonometry, the direct and inverse geodetic problems, Vincenty's and Sodano's methods, GPS and time of arrival algorithm. Prerequisite: CPTR 4600/357 or consent of department.	3	3
MATH 5825	MACHINE LEARNING IMPLEMENTATION (3) Overview of learning theory, reinforcement learning and adaptive control, supervised learning and unsupervised learning, and application and implementation of machine learning. Credit cannot be received for both MATH 5825 and CPTR 5360; they are equivalent courses.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): CPTR 4320/372 or CPTR 5680/447; or consent of department.		

MATH 5830	DEEP LEARNING IMPLEMENTATION (3) Overview of deep learning including feature learning and neural computation, algorithms, applications and software implementation, and advances in Artificial Intelligence. Credit cannot be received for both MATH 5830 and CPTR 5365; they are equivalent courses. Prerequisite(s): CPTR 4320/372 or CPTR 5680/447; or consent of department.	3	3
MATH 5920	GRADUATE SEMINAR (3) Conducted by graduate faculty of department. The course may be repeated under a different topic with the permission of the department. Prerequisite: Twenty-one graduate level credit hours in mathematics and consent of the department.	3	3
MATH 5950	MASTERS' PROJECT (3) Research under the supervision of a regular faculty member leading to the completion of a Master's project. Prerequisites: Approval of the Graduate Advisor.	3	3
MATH 5980	MASTER'S THESIS (3-6) Research under the supervision of a thesis committee led by a regular faculty member of the department leading to a successful viva voce and completion of a thesis. The formalities of theses are governed by Graduate School's and departmental policies and regulations. Refer to the Graduate Student Handbook. Option of partially fulfilling the requirements of the thesis with an industrial or Government partner. Register for six (6) credit hours in one semester or over two semesters for three (3) credit hours in each semester. University continued registration policy applies. Prerequisites: Approval of the Graduate Advisor.	3	3

Management (MGMT)

Course	Course Description	Credit Hrs.	Contact Hrs.
MGMT 1020	CAREER FLUENCY (3) The course prepares students with the necessary skills to engage in the career planning and search process, including resume building, personal and Internet-based networking, and employer communications and interviewing. Emphasis will be placed on business soft skills, interpersonal behavior, problem solving, and decision-making that aid in job placement and retention.	3	3

MGMT 1030	INTRODUCTION TO MODERN BUSINESS SYSTEMS (3) Overview of the modern business as a system, its components and functions, as well as associated career options. Includes an introduction to basic business and economic theories, discussions of current business laws, financial statements and analysis, and business software including spreadsheets. Lab includes a focus on business power skills: business writing, verbal communication, presentation skills and business etiquette. Course designated as a freshman seminar course for College of Business.	3	3
MGMT 1045	INTRODUCTION TO ENTREPRENEURSHIP (3) This course provides students with a context for learning the basic principles of entrepreneurship. Students will explore how start-ups work in the world; understand concepts behind starting their own business while developing and refining their own business development acumen	3	3
MGMT 2520	SMALL BUSINESS MANAGEMENT AND ENTREPRENEURSHIP (3) Study of the unique problems of organizing, developing, and operating a small business in the urban environment. Emphasis on financial and marketing strategies for small businesses. Students will develop business proposals for new business ventures. Credit not given for both MGMT 2520/252 and MGMT 209. Prerequisite: Junior standing.	3	3
MGMT 3010	PRINCIPLES OF MANAGEMENT (3) Introduction to the methods of planning, organizing, leading, and controlling business processes. Covers wide array of topics including decision-making, environments, culture, change, and business ethics. Writing emphasis course.	3	3
MGMT 3020	ORGANIZATION BEHAVIOR (3) Focuses on the human dimensions of management. Topics covered include motivation, leadership, job design, conflict management, communication, and culture.	3	3
MGMT 3240	OPERATIONS/PRODUCTION MANAGEMENT (3) The purpose of this course is to acquaint the student with the fundamentals of production and operations management. Various techniques, both managerial and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>quantitative, are presented to cover all four stages of POM: strategic, tactical, operational, and control. Topics include forecasting; capacity, location and layout planning, linear programming, inventory management, material requirement planning, scheduling, workforce management, project management, and quality management. Credit not given for both INSY 224 and MGMT 3240/224.</p> <p>Prerequisite: MATH 1500/214; QBA 2000/200; or consent of the department.</p>		
MGMT 3570	<p>MANAGEMENT PROCESSES IN NONPROFIT ORGANIZATIONS (3)</p> <p>Decision making, planning, and control processes in nonprofit organizations.</p> <p>Prerequisite: Junior standing.</p>	3	3
MGMT 3600	<p>HUMAN RESOURCE MANAGEMENT (3)</p> <p>Focuses on viewing the organization's personnel as a resource that can impact the performance of the organization. The methods and strategies of acquiring, utilizing, and developing human resources are studied. Affirmative action, equal employment opportunity laws, and sexual harassment are also examined.</p> <p>Prerequisite: MGMT 3010/249; INSY 1370/137.</p>	3	3
MGMT 3620	<p>INDUSTRIAL RELATIONS (3)</p> <p>In-depth analysis of labor-management relations, including labor unions, collective bargaining, grievance handling, and settlement of labor disputes.</p> <p>Prerequisite: MGMT 3010/249.</p>	3	3
MGMT 3640	<p>ORGANIZATION THEORY (3)</p> <p>Study of the history of management thought and theory. Focuses on classical and contemporary views of organization such as bureaucracy, open systems, and contingency theories.</p> <p>Prerequisite: MGMT 3010/249.</p>	3	3
MGMT 3730	<p>REAL ESTATE MANAGEMENT (3)</p> <p>Principles of real estate management and their application in the urban environment.</p> <p>Prerequisite: Junior standing.</p>	3	3
MGMT 3755	<p>SOCIAL ENTREPRENEURSHIP (3)</p> <p>Planning and operation of business enterprises with a socially beneficial mission. Students will explore the tension and balance between operational performance for sustainability and the achievement of a social good.</p> <p>Prerequisite: MGMT 2520</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MGMT 4100	<p>FIELD EXPERIENCE IN SMALL BUSINESS (3)</p> <p>Methodologies for identifying and solving unique small business problems. Discussion will emphasize consulting and evaluating techniques. Students will work in teams to develop case studies of actual small urban businesses.</p> <p>Prerequisite: Admitted major or minor. Senior standing and completion of all business core courses.</p>	3	3
MGMT 4505	<p>BUSINESS PLAN DEVELOPMENT (3)</p> <p>Development and presentation of a comprehensive business plan that integrates the marketing, operational, and financial elements. Drafts and oral presentations of various sections of the plan will be submitted and presented throughout the course, culminated by a formal presentation to business professionals.</p> <p>Prerequisite: FIN 2660</p>	3	3
MGMT 4610	<p>CONTEMPORARY ISSUES IN PERSONNEL MANAGEMENT (3)</p> <p>An in-depth practical analysis of the issues faced by personnel managers as a result of changes in the work force, government regulations, and the environment. Topics covered include job satisfaction, women in management, minorities, the disadvantaged, EEOC, OSHA, and affirmative action.</p> <p>Prerequisite: MGMT 3600/260; INSY 1370/137.</p>	3	3
MGMT 4850	<p>INTERNATIONAL BUSINESS (3)</p> <p>Basics of international or multinational management. Differences between conducting business in the United States and in other countries; analysis of the strategies involved. Writing emphasis course.</p> <p>Prerequisite: Completion of FIN 2660/266, MKTG 3110/276 and MGMT 3010/249, and satisfaction of all requirements for admission to the College of Business.</p>	3	3
MGMT 4890	<p>BUSINESS POLICY AND STRATEGY (3)</p> <p>The capstone course of the Business curriculum. Integrates knowledge of functional areas. Focuses on industry analysis, company analysis, global competition and the design and implementation of strategy. Additional course fee.</p> <p>Prerequisite(s): Admitted Business major or minor. Senior standing.</p>	3	3

MGMT 4900	SPECIAL TOPICS IN MANAGEMENT (1-3) An exploration of special topics or current issues in the field of management. Offered irregularly. May be repeated for a maximum of six credit hours under different topics. Prerequisite: MGMT 3010/ 249 or consent of the instructor.	1	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
MGMT 4990	INDEPENDENT STUDY AND SPECIAL PROBLEMS (3) Designed for independent research and study of special management problems. A comprehensive research paper is required. Maximum of two enrollments, not in the same term, for a total of six credit hours. Prerequisite: Senior standing and consent of the department.	3	3
MGMT 5100	LEADERSHIP & MANAGEMENT OF ORGANIZATIONS (3) This course offers opportunity for an extensive examination of leadership in organizations and provides a set of experiences that are designed to enhance student self-awareness and capacity for effective leadership. It is a course that involves personal exploration, understanding and development with ultimate goal for students to make successive approximations towards becoming a more effective leader in their life and in their organization. Prerequisite(s): Completion of all Foundation Courses.	3	3
MGMT 5200	OPERATIONS & SUPPLY CHAIN MANAGEMENT (3) Operations Management is concerned with the planning and decision-making activities associated with the management of an organization's operations. The organization may be either a provider of services, a goods producer, or a combination of both. The basic goals of this course are: to help the students gain an exposure to the spectrum of operations management planning and decision-making activities; help students to obtain insights into the basic trade-offs associated with operations management decisions; and to introduce a variety of tools and techniques for helping operations managers implement their decisions and reach their goals. Prerequisite: ACCT 5100	3	3

MGMT 5300	GLOBAL BUSINESS MANAGEMENT (3) This course focuses on international business opportunities, managing in foreign countries, the global business environment, the global cultural environment, assessing global market opportunities, developing global management strategies, and the handling of finance and accounting functions in foreign environments. This course also explores developing consumer and industrial products for global markets, export trade and logistics. Prerequisite: FIN 5100	3	3
MGMT 5400	BUSINESS LAW FOR MANAGERS (1.5) Business Law for Managers provides the graduate student of business with a general overview of the legal system as that institution relates to the manager's role in the business community. The course's primary focus is on the law of contracts, torts, sales, employment law and business information. This course also includes an in depth focus on corporate (entity) governance and operations.	1.500	1.500

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: MGMT 5100		
MGMT 5500	BUSINESS ETHICS AND SOCIAL RESPONSIBILITY (1.5) The purpose of this course is to help students improve their ability to make ethical decisions in business by providing them with a framework that they can use to identify analyze and resolve ethical issues in business decision making. Issues such as conflicts between personal values and organizational goals; the role of sustainability in business strategy; and the importance of stakeholder relationships, corporate governance, and the development of ethics programs and an ethical culture in an organization will also be discussed. Prerequisite: MGMT 5100	1.500	1.500
MGMT 5510	MANAGEMENT PROCESS FOR NON-PROFIT ORGANIZATIONS (3) This course is designed to provide an understanding of the nonprofit sector and the processes to start-up and sustain a nonprofit organization from a management perspective. Emphasis will be placed on strategic and business planning for a nonprofit organization. Subjects to be covered include program development, organizational design and processes, program evaluation, recruiting a board of directors, incorporating a nonprofit, state and federal tax exemptions, budgeting, fundraising, grant writing, social impact and social entrepreneurship. Prerequisite(s): FIN 5100, MGMT 5100, and MGMT 5500.	3	3

MGMT 5700	ENTREPRENEURIAL MANAGEMENT (3) This course focuses on the effective management of an entrepreneurial venture, including the unique challenges of dealing with the challenges of a startup. Milestone topics include effective decision-making, team building, brand value, strategic planning, marketing, and entrepreneurial finance. Prerequisite(s): FIN 5100 and MKTG 5100	3	3
MGMT 5800	STRATEGIC MANAGEMENT (3) This course attempts to increase our understanding and provide insight into the most fundamental question in strategic management about what determines the success and failure of companies around the globe. Thus the course focuses on the major strategic challenges confront organizations that compete in the global economy. An organization's strategy provides a "road map" and "theory" of how to gain competitive advantage and compete successfully in the marketplace. Strategic Management is the process that top level managers, the executives, develop and implement this strategy. Prerequisite(s): MGMT 5100, MGMT 5200, and MGMT 5300.	3	3

Military Science (MI S)

Course	Course Description	Credit Hrs.	Contact Hrs.
MI S 1010	FOUNDATIONS OF OFFICERSHIP /2 (1) Issues and competencies central to a commissioned officer's responsibilities. Framework for understanding officership, leadership, Army values and "life skills" such as physical fitness and time management.	1	2
MI S 1020	BASIC LEADERSHIP /2 (1) Basic leadership fundamentals such as problem solving, communications, briefings, effective writing, goal setting, and techniques for improving listening and speaking skills. Introduction to counseling.	1	2
MI S 1510	PHYSICAL READINESS I /3 (1) Series of four progressive Military Physical Readiness Training courses specifically tailored to provide and develop the stamina, endurance, strength, flexibility, reaction time, coordination, speed, self discipline and self confidence required in performing professional military skills. Also provide the knowledge to plan, conduct and execute an unit level Physical Fitness Program. May be repeated for a maximum of 2 credit hours.	1	3

MI S 2010	INDIVIDUAL LEADERSHIP STUDIES /3 (2) Successful leadership characteristics through observation and experiential learning exercises through observation and discussion in small groups.	2	3
MI S 2020	LEADERSHIP AND TEAMWORK /3 (2) How to build successful teams, influence action, communicate effectively and achieve goals, time decision, and creative problem solving.	2	3
MI S 2510	PHYSICAL READINESS II /3 (1) Continuation of Physical Readiness I. May be repeated for a maximum of 2 credit hours.) Prerequisite: Sophomore standing	1	3
MI S 2600	U.S. MILITARY HISTORY 1650 TO PRESENT (3) Exploration of U.S. Military History from 1650 to the present. Analysis of the development of technological innovations and their impact on the major conflicts throughout the history of the US military. Leaders, strategists, and soldiers who waged these wars and how they have shaped history and the modern world.	3	3
MI S 3010	LEADERSHIP AND PROBLEM SOLVING /4 (3) Self-assessment of leadership style and development of personal fitness regimen. Plan and conduct individual/small unit tactical training while testing reasoning and problem-solving	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	techniques.		
MI S 3020	LEADERSHIP AND ETHICS /4 (3) Communications, values, and ethics in effective leadership. Ethical decision-making, consideration of others, and spirituality in the military. Prerequisite: MI S 3010/301.	3	4
MI S 3110	LEADERSHIP AND MANAGEMENT /4 (3) Develops proficiency in planning executing complex operations, functioning as staff members, and mentoring subordinates. Training management, methods of staff collaboration, and developmental counseling techniques. Prerequisite: MI S 3010/301, 3020/302.	3	4

MI S 3120	OFFICERSHIP /4 (3) Case study of military law and practical exercises on establishing an ethical command climate. Senior leadership project requires planning, organization, collaboration; analysis and demonstration of leadership skills. Prerequisite: MI S 3010/301, 3020/302, 3110/311.	3	4
MI S 3510	PHYSICAL READINESS III /3 (1) Continuation of Physical Readiness II. May be repeated for a maximum of 2 credit hours.) Prerequisite: Junior standing	1	3
MI S 3610	PHYSICAL READINESS IV /3 (1) Continuation of Physical Readiness III. May be repeated for a maximum of 2 credit hours.) Prerequisite: Senior standing	1	3
MI S 3990	MILITARY THEORY - INDEPENDENT STUDY (1) Intensive research and study of one or more selected topics. The topics and research methodology are determined in consultation with the instructor. May be repeated for maximum of six credit hours.	1	1

Middle School Education (MIDS)

Course	Course Description	Credit Hrs.	Contact Hrs.
MIDS 3010	STANDARDS-BASED EXPLORATION OF MIDDLE SCHOOL MATHEMATICS TOPICS (3) Integrating mathematical knowledge of standards and skills to apply problem solving skills to real world problems that encompass national, state, and local standards at the intermediate and middle school level. Prerequisite: MATH 1010/140.	3	4
MIDS 3020	STANDARDS-BASED EXPLORATION OF MIDDLE SCHOOL SOCIAL STUDIES TOPICS /4 (3) Integrating social science knowledge of standards and skills to apply problem solving skills to real world problems that encompass national, state, and local standards at the intermediate and middle school level. Prerequisite: Completion of 6 hours in the Social Studies General Education requirements.	3	4

MIDS 4020	TEACHING WRITING IN THE MIDDLE SCHOOL (3) Exploration of literacy processes in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing to intermediate and middle school students. Credit will be given for only one of the following: MIDS 4020/ 302 or ELED 4020/ 302. Students must be admitted to the College of Education before taking the following courses. Prerequisite: Successful completion of the English Qualifying Examination.	3	3
MIDS 4160	TEACHING CREATIVE ARTS IN THE MIDDLE SCHOOL /4/ LABORATORY (3) Techniques, methods, materials, and content for teaching creative arts in intermediate and middle school settings. Emphasis will be placed on integrating the following into content areas: literature, music, crafts, arts, and rhythms. Credit will be given for only one of the following: MIDS 4160/ 320, ELED 4190/ 320, or ELED 220. Prerequisite: Admission to the College of Education; Completion of ENG 1260/ 126, ART 1100/ 101 or MUS 1134/ 134; Completion of one of the following: ELCF 4440/ 344; ELED 3010/ 201; or BIL 2000/ 200.	3	4
MIDS 4200	STUDENT TEACHING IN MIDDLE SCHOOL EDUCATION, SEMESTER I (3) Supervised hands-on experience in an elementary classroom with intermediate and middle school emphasis designed for students to apply teaching and learning strategies acquired in methods courses. Course content includes: classroom management; school policies, rules, and laws; teaching strategies; dispositions; and technology. One hundred clock hours in the field. To be taken the long semester prior to student teaching. Credit will be given for only one of the following: MIDS 4200/374 or ELED 4200/374. Prerequisites: Admission to the College of Education; completion of methods course/s	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	appropriate to concentration/s; passing score on the Illinois Content Area Certification Test; consent of the department.		
MIDS 4210	STUDENT TEACHING IN MIDDLE SCHOOL EDUCATION, SEMESTER II (6) Placement in middle grade level classroom/s. University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to 6 credit hours may be taken with student teaching but may not include required professional education courses. Credit will be given for only one of the following: MIDS 4210/375, ELED 4210/375 or ELED 285. Prerequisites: MIDS 4200/374; completion of all required professional education courses; consent of the department.	6	6

MIDS 4220	TEACHING MATHEMATICS IN THE MIDDLE SCHOOL /4/ LABORATORY (3) Techniques, methods, and materials for teaching mathematics to diverse learners in middle level education. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (mathematics must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen hours in a middle level mathematics classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 207, ELED 4170/307, ELED 5170/307G or MIDS 4220/310, MIDS 5220/310G. Prerequisite: Admission to the College of Education; Completion of Mathematics General Education Requirement (6 Hours); MIDS 3010/201; Completion of one of the following: ELCF 4440/344; ELED 3010/201; or BIL 2000/200.	3	4
MIDS 4230	TEACHING SCIENCE IN THE MIDDLE SCHOOL /4/ LABORATORY (3) Techniques, methods, and materials for teaching science to diverse learners in middle level education. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (science must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen hours in a middle level science classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 214, ELED 4140/304, ELED 5140/304G or MIDS 4230/315, MIDS 5230/315G. Prerequisite: Admission to the College of Education; Completion of Natural Science General Education Requirement (12 Hours); Completion of one of the following: ELCF 4440/ 344; ELED 3010/ 201; or BIL 2000/ 200.	3	4
MIDS 4240	TEACHING SOCIAL STUDIES IN THE MIDDLE SCHOOL /4/ LABORATORY (3) Techniques, methods, and materials for teaching social studies concepts to diverse learners in the middle level education. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (social studies must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen clock hours in a middle level social studies classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 215, ELED	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	4150/305, ELED 5150/305G or MIDS 4240/325, MIDS 5240/325G. Prerequisites: Admission to the College of Education; completion of Social Studies General Education requirements (12 hours); MIDS 202; completion of one of the following: ELCF 4440/344, ELED 3010/201 or BIL 2000/200.		

MIDS 4250	<p>WORKSHOP METHODS OF READING AND LANGUAGE ARTS IN THE MIDDLE SCHOOL /4/ LABORATORY (3)</p> <p>Provides preservice and inservice teachers with knowledge of methods of reading instruction in three areas: (1) word recognition, (2) vocabulary, and (3) comprehension. Credit will only be given for one of the following: MIDS 4250/330 or READ 4210/310.</p> <p>Prerequisite: Admission to the College of Education; READ 4160/370; Completion of one of the following: ELCF 4440/344; ELED 3010/201; or BIL 2000/200.</p>	3	4
MIDS 5000	<p>THE MIDDLE MATTERS: STANDARDS-BASED EXPLORATION OF MIDDLE LEVEL INTEGRATED TOPICS (3)</p> <p>Integrating content, skills and pedagogical content knowledge of standards and current middle level research to apply problem-solving skills to real world problems that encompass national, state, and local standards at the intermediate and middle school level.</p> <p>Prerequisite: Restricted to master's degree candidates or consent of the department.</p>	3	3
MIDS 5020	<p>TEACHING WRITING IN THE MIDDLE SCHOOL (3)</p> <p>Exploration of literacy processes in emergent writers; influence of writing on reading processes; instructional strategies and approaches for teaching writing to intermediate and middle school students. Credit will be given for only one of the following: MIDS 4020/302 or ELED 4020/302.</p> <p>Prerequisite: Successful completion of the English Qualifying Examination.</p>	3	3
MIDS 5160	<p>TEACHING CREATIVE ARTS IN THE MIDDLE SCHOOL /LABORATORY/4/ (3)</p> <p>Techniques, methods, materials, and content for teaching creative arts in intermediate and middle school settings. Emphasis will be placed on integrating the following into content areas: literature, music, crafts, arts, and rhythms. Credit will be given for only one of the following: MIDS 5160/320, ELED 5190/320, or ELED 220.</p> <p>Prerequisite: Admission to the College of Education; Completion of ENG 1260/126, ART 1100/101 or MUS 1134/134; Completion of one of the following: ELCF 5440/344; ELED 3010/201; or BIL 2000/200.</p>	3	4
MIDS 5200	<p>STUDENT TEACHING IN MIDDLE SCHOOL EDUCATION, SEMESTER I (3)</p> <p>Supervised hands-on experience in an elementary classroom with intermediate and middle school emphasis designed for students to apply teaching and learning strategies</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>acquired in methods courses. Course content includes: classroom management; school policies, rules, and laws; teaching strategies; dispositions; and technology. One hundred clock hours in field. To be taken the long semester prior to student teaching. Credit will be given for only one of the following: MIDS 5200/374 or ELED 5200/374.</p> <p>Prerequisites: Admission to the College of Education; completion of methods course/s appropriate to concentration/s; passing score on the Illinois Content Area Certification Test; consent of the department.</p>		
MIDS 5210	<p>STUDENT TEACHING IN MIDDLE SCHOOL EDUCATION, SEMESTER II (6)</p> <p>Placement in middle grade level classroom/s. University and cooperating school supervision. Five full days per week for 16 weeks in the classroom plus weekly seminar held on-site or on-campus. Up to 6 credit hours may be taken with student teaching but may not include required professional education courses. Credit will be given for only one of the following: MIDS 5210/375G, ELED 5210/375G or ELED 285.</p> <p>Prerequisites: MIDS 5200/374G; completion of all required professional education courses; consent of the department.</p>	6	6
MIDS 5220	<p>TEACHING MATHEMATICS IN THE MIDDLE SCHOOL LABORATORY /4/ (3)</p> <p>Techniques, methods, and materials for teaching mathematics to diverse learners in middle level education. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (mathematics must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen hours in a middle level mathematics classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 207, ELED 4170/307, ELED 5170/307G or MIDS 4220/310, MIDS 5220/310G.</p> <p>Prerequisite: Admission to the College of Education; Completion of Mathematics General Education Requirement (6 Hours); MIDS 3010/201; Completion of one of the following: ELCF 4440/344; ELED 3010/201; or BIL 2000/200.</p>	3	4
MIDS 5230	<p>TEACHING SCIENCE IN THE MIDDLE SCHOOL /4/ LABORATORY (3)</p> <p>Techniques, methods, and materials for teaching science to diverse learners in middle level education. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (science must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen hours in a middle level science classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 214, ELED 4140/304, ELED 5140/304G, or MIDS 4230/315, MIDS 5230/315G.</p> <p>Prerequisite: Admission to the College of Education; Completion of Natural Science General Education Requirement (12 Hours); Completion of one of the following: ELCF 5440/344; ELED 3010/201; or BIL 2000/200.</p>	3	4
MIDS 5240	<p>TEACHING SOCIAL STUDIES IN THE MIDDLE SCHOOL /4/ LABORATORY (3)</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Techniques, methods, and materials for teaching social studies concepts to diverse learners in the middle level education. Required field experience tutoring and/or whole class teaching</p> <p>Option A: one full-day, one day per week (social studies must be taught that day), for eight weeks in a middle level classroom; Option B: fifteen clock hours in a middle level social studies classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: ELED 215, ELED 4150/305, ELED 5150/305G or MIDS 4240/325, MIDS 5240/325G.</p> <p>Prerequisites: Admission to the College of Education; completion of Social Studies General Education requirements (12 hours); MIDS 3020/202; completion of one of the following: ELCF 5440/344, ELED 3010/201 or BIL 2000/200.</p>		
MIDS 5250	<p>WORKSHOP METHODS OF READING AND LANGUAGE ARTS IN THE MIDDLE SCHOOL LABORATORY/4/ (3)</p> <p>Provides preservice and inservice teachers with knowledge of methods of reading instruction in three areas: (1) word recognition, (2) vocabulary, and (3) comprehension. Credit will only be given for one of the following: MIDS 4250/330 or READ 4210/310.</p> <p>Prerequisite: Admission to the College of Education; READ 4160/370; Completion of one of the following: ELCF 5440/344; ELED 3010/201; or BIL 2000/200.</p>	3	4
MIDS 5800	<p>INTERNSHIP AND SEMINAR IN MIDDLE LEVEL TEACHING /FIELD (6)</p> <p>Five full days/seminar one hour per week/16 weeks Placement in elementary field-based classroom with an emphasis in intermediate and middle school settings. University and cooperating school supervision will occur for the five full days over 16 weeks in the classroom plus one weekly seminar held on-site or oncampus.</p> <p>Prerequisite: Admission to the College of Education and the Master of Arts program at the Middle Level; completion of all other coursework in the program; a 3.0 grade point average in all master's level course work in the program; and consent of department.</p>	6	3
MIDS 5970	<p>RESEARCH ON THE MIDDLE LEVEL SCHOOL (3)</p> <p>The study of research methods and topics pertaining to middle schools culminating in writing a research paper on middle level education issues.</p>	3	3

Marketing (MKTG)

Course	Course Description	Credit Hrs.	Contact Hrs.
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MKTG 3110	<p>PRINCIPLES OF MARKETING (3)</p> <p>Description and analysis of marketing from a managerial systems perspective. Emphasis on vocabulary, principles, concepts and strategies relative to customer selection and satisfaction via the right product, distribution channels, promotion and price.</p> <p>Prerequisite: Junior standing.</p>	3	3
MKTG 3200	<p>PRINCIPLES OF SALES (3)</p> <p>Introductory course in the principles and concepts of sales, the strategy and management of sales, and current sales practices and trends. Includes customer analysis, sales openings, effective communications, handling objections, sales closes, and improving customer satisfactions.</p>	3	3
MKTG 3600	<p>BUSINESS TO BUSINESS SALES (3)</p> <p>Introduces the fundamentals on building and managing relationships with business customers. Covers business-to-business management issues, with an emphasis on topics at the mid-to-upper management level. Includes cold-calling, qualifying prospects, maximizing referrals, developing relationships, organizational buyer behavior, methods of assessing business market opportunities, and business marketing strategies.</p>	3	3
MKTG 3620	<p>PRINCIPLES OF ADVERTISING (3)</p> <p>An introductory course in advertising focusing attention on general principles and advertising techniques. Social and economic role of advertising; planning the advertising campaign; the role of research and other methods of gathering information; creating messages; and using advertising effectively.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3630	<p>PRINCIPLES OF ADVERTISING (3)</p> <p>An introductory course in advertising focusing attention on general principles and advertising techniques. Social and economic role of advertising; planning the advertising campaign; the role of research and other methods of gathering information; creating messages; and using advertising effectively.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3650	<p>RETAIL SALES AND MERCHANDISING (3)</p> <p>Introduces marketing and management principles, as well as ways in which goods, services and ideas are promoted. Includes retail promotional planning such as communication theory, corporate and business image, target markets and competitive marketplace stance.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MKTG 3705	<p>ENTREPRENEURIAL SALES & MARKETING (3)</p> <p>Planning and execution of a sales and marketing strategy, including basic market analysis and segmentation, in the entrepreneurial business setting. The use of guerilla marketing techniques as well as the internet and social media technology, will be explored.</p> <p>Prerequisite: MGMT 2520</p>	3	3
MKTG 3750	<p>CHANNEL OF DISTRIBUTION ANALYSIS (3)</p> <p>Management of the channel of distribution as part of the marketing mix. Channel of distribution for both consumer and industrial goods will be analyzed with detailed study of two major middlemen, retailers and wholesalers.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3770	<p>MARKETING COMMUNICATIONS AND PROMOTION (3)</p> <p>Management of the overall promotional effort as part of the marketing mix. Special emphasis on the interrelationship and coordination of advertising, personal selling, sales promotion, and public relations. Detailed examination of techniques and procedures used in the communication process.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3780	<p>CONSUMER BEHAVIOR (3)</p> <p>Description and analysis of consumer motivation and buying behavior from a business perspective. Emphasis on cognition, affect, behavior, environmental influences, and the decision process. Buyer behavior models and theories are explored.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3790	<p>SALES ADMINISTRATION AND CONTROL (3)</p> <p>Principles and techniques in the management of the sales effort. Management of the sales force including selection, recruiting, training, motivation, sales forecasting, sales budgets, relation of selling to advertising and sales promotion.</p> <p>Prerequisite: MKTG 3110/276.</p>	3	3
MKTG 3840	<p>PHYSICAL DISTRIBUTION AND MARKETING LOGISTICS (3)</p> <p>An examination of the issues relating to the transportation, inventory, purchasing, storing and control of products in a marketing channel.</p> <p>Prerequisite: MKTG 3110/276</p>	3	3

MKTG 4200	ADVANCED SALES TECHNIQUES (3) Advanced selling course in the principles and concepts of sales with a focus on	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	relationship and consultative selling. Includes value-added, major account and team selling as well as negotiating skills. Lab includes video-taped role-play presentations; written sales proposals and computer simulation on major account selling. Prerequisite: MKTG 3200		
MKTG 4820	INTERNATIONAL MARKETING (3) Exploration of the marketing of products and services in more than one nation. Emphasis placed on marketing opportunities, market entry strategies, and the application of the marketing mix in the foreign environment. Prerequisite: MKTG 3110/276, FIN 2660/266, and senior standing.	3	3
MKTG 4830	MARKETING RESEARCH (3) Principles, procedures, and techniques involved in planning research studies and in gathering, analyzing and interpreting research data used in the solution of marketing problems. Writing emphasis course. Prerequisite: MKGT 3110/276, QBA 2000/200.	3	3
MKTG 4880	ADVANCED MARKETING MANAGEMENT (3) A case method course dealing with the problem solving and decision making activities of the marketing executive. Particular attention is given to planning and organizing marketing strategy and understanding concepts. Writing emphasis course. Prerequisite: Admitted major or minor. Senior standing plus completion of MKTG 3110/276 and 9 hours of marketing.	3	3
MKTG 4900	SPECIAL TOPICS IN MARKETING (1-3) An exploration of special topics or current issues in the field of marketing. Offered irregularly. May be repeated for a maximum of six credit hours under different topics. Prerequisite: MKTG 3110/276 or consent of the instructor.	1	1

MKTG 4990	INDEPENDENT STUDY AND SPECIAL PROBLEMS (3) Designed for independent research and study of special marketing problems. A comprehensive research paper is required. Maximum of two enrollments, not in the same term, for a total of six credit hours. Prerequisite: Senior standing and consent of the department.	3	3
MKTG 5100	SALES & MARKETING MANAGEMENT (3) This course addresses the design and implementation of a firm's marketing strategy by creating, communicating and delivering value to customers and stakeholders. Key concepts include marketing analysis (customer, competition, company and context); the	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	marketing mix (product strategy, pricing, advertising and promotion, and distribution); segmentation, targeting and positioning; and sales management. Through case discussions, students will experience the challenges and opportunities facing marketing managers and will develop, present, and defend their recommendations, as well as critically evaluate the recommendations of others. Prerequisite: Completion of all Foundation Courses.		

Music (MUS)

Course	Course Description	Credit Hrs.	Contact Hrs.
MUS 1100	<p>STRINGS (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1
MUS 1101	<p>TRUMPET OR CORNET (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1
MUS 1102	<p>FRENCH HORN (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1
MUS 1105	<p>TROMBONE (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1
MUS 1106	<p>TUBA (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1
MUS 1107	<p>JAZZ PIANO (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>	2	1

MUS 1108	FLUTE (2)	2	1
<p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>			

Course	Course Description	Credit Hrs.	Contact Hrs.
MUS 1109	CLARINET (2)	2	1
<p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>			
MUS 1110	FUNDAMENTALS OF MUSIC (3)	3	3
<p>Mechanics of music: notation, scales, intervals, melody, and rhythm. Beginning sightsinging and ear training.</p>			
MUS 1111	INTRODUCTION TO THEORY I (3)	3	3
<p>Designed for the prospective music major who does not meet the minimum requirements for MUSM 1111. A study of scales, intervals, triads, rhythms, sight-singing, score reading and conducting. (No credit will be given toward music major.) Additional course fee.</p>			
MUS 1112	INTRODUCTION TO THEORY II (3)	3	3
<p>Designed for the prospective music major who does not meet the minimum requirements for MUSM 1111/111. A study of scales, intervals, triads, rhythms, sight singing, score reading and conducting. (No credit will be given toward music major.) Additional course fee.</p> <p>Prerequisite: MUS 1111/111 or consent of the instructor.</p>			
MUS 1116	CLASS VOICE I (3)	3	3
<p>Basic techniques of singing. No prior musical experience required. Additional course fee.</p>			
MUS 1117	CLASS VOICE II (3)	3	3
<p>Further development of the singing voice. Additional course fee.</p>			
MUS 1118	SAXOPHONE (2)	2	1
<p>Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee.</p> <p>Prerequisite: Placement by audition.</p>			

MUS 1119	OBOE (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1132	BASSOON (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.		
MUS 1133	PERCUSSION (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1134	HISTORY AND APPRECIATION OF MUSIC (3) Elements of music. Critical listening and discussion. (Enrichment core course.) IAI: F1 900	3	3
MUS 1139	PIANO (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1143	VOICE (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1144	GUITAR (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1

MUS 1145	ORGAN (2) Individual instruction. Two hours credit for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1146	STEEL PAN (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1147	AFRICAN DRUM (2)	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.		
MUS 1148	BASS (ACOUSTIC/ELECTRIC) (2) Individual instruction. Two credit hours for one hour lesson per week. May be repeated for credit. Recital performance required. Additional course fee. Prerequisite: Placement by audition.	2	1
MUS 1149	CLASS GUITAR (3) Development of basic music reading skills and guitar techniques. No prior musical experience required. Prerequisite: Student must provide her/his own instrument.	3	3
MUS 1191	CLASS PIANO I (3) Development of basic music reading skills and fundamental keyboard techniques. No prior musical experience required. Additional course fee.	3	3
MUS 1192	CLASS PIANO II (3) Further development of music reading skills and keyboard techniques, including additional chord study. Additional course fee. Prerequisite: MUS 1191/191 or consent of the department.	3	3

MUS 2050	INTRODUCTION TO SOUND ART (3) Explores sound as a medium for creative expression. Topics include digital field recording and editing, physics of sound, history of sound art, and contemporary sound-based practices. Students produce creative projects and participate in a public art exhibition. Additional course fee. Prerequisite(s): ENG 1270/127 or 1230/123.	3	6
MUS 2100	MUSIC TECHNOLOGY I (3) Introduction to computer based personal recording studio and sequencing applications with attention to audio equipment for live sound reinforcement, including: music programming software, microphones, mixers, amplifiers and speakers.	3	3
MUS 2150	INTRODUCTION TO MUSIC BUSINESS (3) A survey of the various areas of the music industry.	3	3
MUS 2215	AFRICAN AMERICAN MUSIC (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Black music history, composers, compositions, and performing artists. (This course satisfies the elective course requirements for the African American Studies major or minor.)		
MUS 2216	JAZZ MUSIC HISTORY (3) A survey course on the history of jazz music from 1900 to present.	3	3
MUS 2217	POP MUSIC HISTORY (3) A survey course on the history of popular music from 1950 to present.	3	3
MUS 2221	GOSPEL MUSIC HISTORY (3) A survey course on the history, development and aesthetics of Gospel music while exploring sociological, political and religious influences on its progression.	3	3
MUS 2223	MUSIC AND WORSHIP (3) An introduction to the philosophy and study of church music and worship. Students will examine the development and functional use of music in worship and explore philosophical, musical and artistic choices for corporate worship.	3	3

MUS 2285	WORLD MUSIC CULTURES (3) A survey of the music of several non-Western cultures: India, the Middle East, China, Japan, Indonesia, Africa, Europe (folk music), Latin America, native North America, Polynesia, and Australia. (Enrichment core course.)	3	3
MUS 5040	MUSIC OF AFRICA (3) A survey of African music, including the traditional and popular musical styles from the Northern and Sub-Saharan regions. Writing emphasis course. Prerequisite: Consent of department or admission to MAT: Mus K-12 program.	3	3

Music Applied (MUSA)

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSA 1100	FLUTE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1108/108 and MUSA 1100/100. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1101	OBOE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1119/119 and MUSA 1101/101. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1102	CLARINET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1109/109 and MUSA 1102/102. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1103	SAXOPHONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1118/118 and MUSA 1103/103. IAI: MUS 909 Prerequisite: Music Major Status.	2	1

MUSA 1104	BASSOON /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1132/132 and MUSA 1104/104. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1105	TRUMPET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1101/101 and MUSA 1105/105. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1106	FRENCH HORN /1 (2)	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1102/102 and MUSA 1106/106. IAI: MUS 909 Prerequisite: Music Major Status.		
MUSA 1107	TROMBONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1105/105 and MUSA 1107/107. IAI: MUS 909 Prerequisite: Music Major Status.	2	1
MUSA 1108	BARITONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Music Major Status.	2	1
MUSA 1109	TUBA /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1106/106 and MUSA 1109/109. IAI: MUS 909 Prerequisite: Music Major Status.	2	1

MUSA 1110	VIOLIN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Music Major Status.	2	1
MUSA 1111	VIOLA /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Music Major Status.	2	1
MUSA 1112	CELLO /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Music Major Status.	2	1
MUSA 1113	DOUBLE BASS /1 (2)	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1148/148 and MUSA 1113/113. IAI: MUS 909. Prerequisite: Music Major Status.		
MUSA 1114	GUITAR /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1144/144 and MUSA 1114/114. IAI: MUS 909. Prerequisite: Music Major Status.	2	1
MUSA 1115	PERCUSSION /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1133/133 and MUSA 1115/115. IAI: MUS 909. Prerequisite: Music Major Status.	2	1

MUSA 1116	AFRICAN DRUM /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1147/147 and MUSA 1116/116. IAI: MUS 909. Prerequisite: Music Major Status.	2	1
MUSA 1117	STEEL PAN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1146/146 and MUSA 1117/117. IAI: MUS 909. Prerequisite: Music Major Status.	2	1
MUSA 1120	PIANO /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1139/139 and MUSA 1120/120. IAI: MUS 909. Prerequisite: Music Major Status.	2	1
MUSA 1121	ORGAN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	will be given credit for both MUS 1145/145 and MUSA 1121/121. IAI: MUS 909. Prerequisite: Music Major Status.		
MUSA 1124	VOICE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Music majors will be given credit for both MUS 1143/143 and MUSA 1124/124. IAI: MUS 909. Prerequisite: Music Major Status.	2	1
MUSA 1130	JAZZ IMPROVISATION /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for a maximum of 4 hours credit. Prerequisite: Music Major Status.	2	1

MUSA 1131	JAZZ SAXOPHONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1
MUSA 1132	JAZZ TRUMPET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1
MUSA 1133	JAZZ TROMBONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1
MUSA 1134	JAZZ PIANO /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1
MUSA 1135	JAZZ GUITAR /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit.	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Music Major Status.		
MUSA 1136	JAZZ BASS /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1

MUSA 1137	DRUMSET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Music Major Status.	2	1
MUSA 1138	JAZZ VOICE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Consent of the department by placement audition.	2	1
MUSA 2200	FLUTE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2201	OBOE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2202	CLARINET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2203	SAXOPHONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSA 2204	BASSOON /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1

MUSA 2205	TRUMPET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2206	FRENCH HORN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2207	TROMBONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2208	BARITONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2209	TUBA /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2210	VIOLIN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2211	VIOLA /1 (2)	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>		
MUSA 2212	<p>CELLO /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2213	<p>DOUBLE BASS /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2214	<p>GUITAR /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2215	<p>PERCUSSION /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2216	<p>AFRICAN DRUM /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2217	<p>STEEL PAN /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p> <p>Prerequisite: Successful completion of the 2000 level advancement hearing.</p>	2	1
MUSA 2220	<p>PIANO /1 (2)</p> <p>Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee.</p>	2	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Successful completion of the 2000 level advancement hearing.		
MUSA 2221	ORGAN /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2224	VOICE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2230	JAZZ IMPROVISATION /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for a maximum of 4 hours credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2231	JAZZ SAXOPHONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2232	JAZZ TRUMPET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2233	JAZZ TROMBONE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1

MUSA 2234	JAZZ PIANO /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
MUSA 2235	JAZZ GUITAR /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2236	JAZZ BASS /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2237	DRUMSET /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Prerequisite: Successful completion of the 2000 level advancement hearing.	2	1
MUSA 2238	JAZZ VOICE /1 (2) Individual instruction. Two hours credit for one hour lesson per week. Recital performance required. May be repeated for credit. Additional course fee. Prerequisite: Minimum of 8 credit hours (4 semesters) of MUSA 1(xxx) and consent of the department. Successful completion of the 2000 level advancement performance review.	2	1

Music Ensemble (MUSE)

Course	Course Description	Credit Hrs.	Contact Hrs.
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MUSE 1110	CONCERT BAND LECTURE AND STUDIO /4 (1) Skills, techniques, and materials for band performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	4
MUSE 1115	CHAMBER ENSEMBLE /3 (1) Skills, techniques, and materials for chamber ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisites: Placement by audition.	1	3
MUSE 1116	WOODWIND ENSEMBLE LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for woodwind ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1117	BRASS ENSEMBLE LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for brass ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1118	PERCUSSION ENSEMBLE LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for percussion ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1126	GUITAR ENSEMBLE LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for guitar ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1130	JAZZ BAND LECTURE AND STUDIO /4 (1) Skills, techniques, and materials for jazz ensemble performance. Public performance. May be repeated for credit. Prerequisite: Placement by audition.	1	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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MUSE 1134	JAZZ COMBO LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for small jazz ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1136	VOCAL JAZZ ENSEMBLE LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for vocal jazz ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1140	CONCERT CHOIR LECTURE AND STUDIO /4 (1) Skills, techniques, and materials for choral performance. Public performance. May be repeated for credit. Prerequisite: Placement by audition.	1	4
MUSE 1144	GOSPEL CHOIR LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for gospel choral performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1148	CHAMBER CHOIR LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for small choral ensemble performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1151	STEEL BAND LECTURE AND STUDIO /3 (1) Skills, techniques, and materials for steel band performance. Public performance. May be repeated for credit. Additional course fee. Prerequisite: Placement by audition.	1	3
MUSE 1160	OPERA WORKSHOP /2 (1) Skills, techniques and materials for opera workshop performance. Public performance. May be repeated for credit. Prerequisite: Placement by audition.	1	2
MUSE 1170	MUSICAL THEATRE /2 (1)	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Skills, techniques and materials for musical theatre performance. Public performance. May be repeated for credit.</p> <p>Prerequisite: Placement by audition.</p>		
MUSE 1180	<p>MUSIC PRODUCTION GROUP /3 (1)</p> <p>Skills, techniques and materials for producing and performing commercial and creative music. Public performance. May be repeated for credit.</p> <p>Prerequisite(s): Placement by audition.</p>	1	3

Music Major (MUSM)

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSM 1000	FRESHMAN SEMINAR: MUSIC /1 (1) Orientation to music department facilities, degree requirements, and program policies. Introduction to basic skills essential to a successful college experience in music including: music practice and performance; music computer software; library resources; and effective use of oral, electronic and written language skills. For all Music first time freshman and transfer students with less than 45 hours of transfer credit.	1	1
MUSM 1092	ILLINOIS MUSIC TEACHER CERTIFICATION REVIEW (1) Review of music theory, aural skills, and music education methods to prepare for state certification examination. Prerequisites: MUSM 1114/114, 1118/118, 4061/361, and 4062, or 4063/363 (or concurrent enrollment); admission to the College of Education.	1	1
MUSM 1111	MUSIC THEORY I LECTURE AND STUDIO /3 (2) Summary of fundamentals and terminology of music; study of the basic elements through analysis and development of written skills. Prerequisite: Music Major Status.	2	3
MUSM 1112	MUSIC THEORY II LECTURE AND STUDIO /3 (2) Summary of fundamentals and terminology of music; study of the basic elements through analysis and development of written skills. Additional course fee. Prerequisite: MUSM 1111/111.	2	3
MUSM 1113	MUSIC THEORY III LECTURE AND STUDIO /3 (2) Summary of fundamentals and terminology of music; study of the basic elements through analysis and development of written skills. Prerequisite: MUSM 1112/112.	2	3
MUSM 1114	MUSIC THEORY IV LECTURE AND STUDIO /3 (2) Summary of fundamentals and terminology of music; study of the basic elements through analysis and development of written skills. Additional course fee. Prerequisite: MUSM 1113/113.	2	3

MUSM 1115	AURAL AND KEYBOARD SKILLS I LECTURE AND STUDIO /3 (2) Development of aural perception and abilities in sight-singing; application of harmonic concepts to the keyboard.	2	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Music Major Status.		
MUSM 1116	AURAL AND KEYBOARD SKILLS II LECTURE AND STUDIO /3 (2) Development of aural perception and abilities in sight-singing; application of harmonic concepts to the keyboard. Additional course fee. Prerequisites: MUSM 1115/115.	2	3
MUSM 1117	AURAL AND KEYBOARD SKILLS III LECTURE AND STUDIO /3 (2) Development of aural perception and abilities in sight-singing; application of harmonic concepts to the keyboard. Additional course fee. Prerequisite: MUSM 1116/116.	2	3
MUSM 1118	AURAL AND KEYBOARD SKILLS IV LECTURE AND STUDIO /3 (2) Development of aural perception and abilities in sight-singing; application of harmonic concepts to the keyboard. Additional course fee. Prerequisite: MUSM 1117/117.	2	3
MUSM 1182	PIANO ACCOMPANYING /4 (1) Study of vocal, instrumental, and choral accompanying. Includes rehearsals, studio accompanying, and accompanying in recital. May be repeated four times for credit in lieu of large ensemble. Prerequisite: Sophomore in piano performance or music education with piano concentration.	1	4
MUSM 1261	INTRODUCTION TO MUSIC EDUCATION /2 (2) Introduction to teaching and the role of an educator with specific emphasis on music education. Ten hours of early field experience. Credit not given for both ELCF 1520 and MUSM 1261.	2	2

MUSM 1800	PERFORMANCE CLASS (0) Attendance and/or performance at departmentally sponsored recitals, concerts, or clinics is required of all music majors in each Fall and Spring semester of enrollment. Full-time enrollment requires a minimum of 10 attendances. Part-time enrollment requires a minimum of 5 attendances.	0	0
MUSM 2000	INDEPENDENT STUDY (1-3) Individually supervised study of selected topics. May be repeated for credit. Prerequisite: Consent of department.	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSM 2201	WOODWIND INSTRUMENTS LECTURE AND STUDIO /3 (2) Fundamentals of woodwind instrument performance and pedagogy for secondary education; basic goals and teaching techniques; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Instruments studied include: flute, clarinet, oboe, saxophone, and bassoon. Prerequisite: MUSM 1111/111.	2	3
MUSM 2202	BRASS INSTRUMENTS LECTURE AND STUDIO /3 (2) Fundamentals of brass instrument performance and pedagogy for secondary education; basic goals and teaching techniques; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Instruments studied include: trumpet, French horn, trombone, baritone, and tuba. Additional course fee. Prerequisite: MUSM 1111/111.	2	3
MUSM 2203	STRING INSTRUMENTS LECTURE AND STUDIO /3 (2) Fundamental of string instrument performance and pedagogy for secondary education; basic goals and teaching techniques; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Instruments studied include: violin, viola, cello, and double bass. Additional course fee. Prerequisite: MUSM 1111/111.	2	3

MUSM 2204	PERCUSSION INSTRUMENTS LECTURE AND STUDIO /3 (2) Fundamentals of percussion instrument performance and pedagogy for secondary education; basic goals and teaching techniques; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Instruments studied include: snare drum, orchestral instruments, mallet instruments, timpani, drumset, Latin and marching percussion. Additional course fee. Prerequisite: MUSM 1111/111.	2	3
MUSM 2206	CHORAL METHODS LECTURE ANDSTUDIO /3 (2) Pedagogy for choral teaching at the elementary and secondary level; basic goals, teaching techniques, and evaluation of vocal ranges; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Additional course fee. Prerequisite: MUSM 1261, sophomore, junior or senior standing.	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSM 2207	JAZZ METHODS LECTURE AND STUDIO /3 (2) Fundamentals and pedagogy for teaching jazz at the secondary level; basic goals and teaching techniques; diagnosis and solutions for typical developmental problems; investigation of source literature, materials, recordings, solo and ensemble literature. Prerequisite: MUSM 1261, sophomore, junior or senior standing.	2	3
MUSM 2218	COMPOSITION I /1 (2) Introduction to composition. Interrelationship and organization of pitch and rhythm. Analysis and composition utilizing simpler forms. Individual instruction. Additional course fee. Prerequisite: MUSM 1114/114.	2	1
MUSM 2219	COMPOSITION II /1 (2) Introduction to composition. Interrelationship and organization of pitch and rhythm. Analysis and composition utilizing the simpler forms. Individual instruction. Additional course fee. Prerequisite: MUSM 2218/218.	2	1

MUSM 2241	DICTION I LECTURE AND STUDIO /3 (2) English and German diction related to singing. Credit not given for both MUS 2296/296 and MUSM 2241/241.	2	3
MUSM 2242	DICTION II LECTURE AND STUDIO /3 (2) French and Italian diction related to singing. Credit not given for both MUS 2297/297 and MUSM 2242/242.	2	3
MUSM 3000	INDEPENDENT STUDY (1-3) Individually supervised study of selected topics. May be repeated for credit. Prerequisite: Consent of Department	1	1
MUSM 3020	MUSIC HISTORY AND LITERATURE I /3 (3) Music history and literature from Antiquity through the Classical Era. Prerequisites: MUSM 1112; ENG 1280 or equivalent.	3	3
MUSM 3021	MUSIC HISTORY AND LITERATURE II /3 (3) Music history and literature from the Romantic Era to the present (A writing emphasis course).	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: MUSM 3020		
MUSM 3111	THEORY AND ARRANGING FOR CONTEMPORARY MUSIC /3 (3) A study of the basic concepts of music theory and arranging for popular, jazz, gospel and world music; arranging practices will focus on contemporary music instruments, technology and vocals. Prerequisite(s): MUSM 1113 and MUSM 1117	3	3
MUSM 3115	SONGWRITING /3 (3) Songwriting for commercial music. Prerequisite(s): MUSM 1113 and MUSM 1117	3	3

MUSM 3310	FORM AND ANALYSIS /3 (3) Structure and design of music; emphasis on instrumental and choral forms of master works. Additional course fee. Prerequisite: MUSM 1114/114 and 1118/118.	3	3
MUSM 3311	COUNTERPOINT /3 (3) Contrapuntal techniques of the 18th and 19th centuries. Examples from literature. Analysis and composition exercises. Prerequisites: MUSM 1114/114 and 1118/118.	3	3
MUSM 3318	COMPOSITION III /1 (2) Analysis and composition of music for various media utilizing complex form and structure. Individual instruction. Additional course fee. Prerequisite: MUSM 2219/219.	2	1
MUSM 3319	COMPOSITION IV /1 (2) Analysis and composition of music for various media utilizing complex form and structure. Individual instruction. Additional course fee. Prerequisite: MUSM 3318/318.	2	1
MUSM 3330	JAZZ PEDAGOGY (3) Basic approaches to teaching jazz; private and group methods and various pedagogical approaches explored; history and literature of jazz repertoire analyzed. Prerequisite: Eight credit hours of applied lessons in major instrument or vocal area; junior or senior standing.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
MUSM 3800	JUNIOR RECITAL (0) Prerequisite: Junior standing and consent of applied instructor.	0	0
MUSM 4014	ORCHESTRATION /3 (3) Ranges, sonorities, and characteristics of writing and arranging for vocal and instrumental music; study of representative works from various periods; exercises in arranging for small and large vocal and instrumental ensembles; exercises in using computer notation software. Additional course fee. Prerequisite: MUSM 1114/114 and 1118/118.	3	3

MUSM 4040	CONDUCTING LECTURE AND STUDIO /3 (2) Techniques of band and choral conducting; rudiments of the baton, instrumentation, score reading, style, and expression; consideration of rehearsal techniques. Prerequisite: MUSM 1113/113, MUSM 1117/117, MUSM 3111 or MUSM 4014/314 and MUSM 3021.	2	3
MUSM 4061	METHODS OF TEACHING MUSIC IN ELEMENTARY SCHOOLS /FIELD /3 (3) Methods of teaching music in elementary school grades K-5. Twenty hours of elementary school music field experience. Prerequisites: Admission to College of Education; Successful completion of MUSM 1114/114 and MUSM 1118/118.	3	3
MUSM 4063	METHODS OF TEACHING MUSIC IN SECONDARY SCHOOL /3 (3) Methods of teaching music in the secondary school grades 9-12. Twenty hours of secondary school music field experience. Prerequisites: Admission to College of Education; Successful completion of MUSM 1114/114 and MUSM 1118/118.	3	3
MUSM 4064	METHODS OF TEACHING INSTRUMENTAL MUSIC IN SECONDARY SCHOOLS/FIELD (3) Methods of teaching instrumental music in middle school grades 6-8 and high school grades 9-12. Twenty-five hours of tutoring middle grade and high school grade students. Prerequisite: Admission to College of Education, ELCF 5500/353 and READ 4100/306 (or concurrent enrollment in ELCF 5500/353 and READ 4100/306), and consent of the department.	3	3
MUSM 4076	STUDENT TEACHING AND SEMINAR: K-12 /FIELD (6) Off-campus placement in elementary or secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>16 weeks. No other courses may be taken during the semester of student teaching. Credit given for only one of the following: MUSM 4075/375, and MUSM 4076/376.</p> <p>Prerequisite: Admission to the College of Education; completion of all coursework in the approved program; successful completion of proficiency exams in music theory, aural and keyboard skills, and applied instrumental or vocal area; 2.5 grade point average in area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>		
MUSM 4800	<p>SENIOR RECITAL (0)</p> <p>A minimum of 25 minutes of solo repertoire in the applied area. The senior recital is the capstone experience for all music majors in the BA or BME programs.</p> <p>Prerequisite: Senior standing; Consent of Applied Instructor; Successful completion of MUSM 1114/114 and MUSM 1118/118.</p>	0	0
MUSM 4900	<p>MUSIC INTERNSHIP (3-6)</p> <p>Supervised experience working in a music setting. Options include the following: recording studio; professional ensemble; educational, arts, or union professional organizations. May be repeated for a maximum of six credit hours.</p> <p>Prerequisite(s): Consent of department.</p>	3	3
MUSM 5000	<p>INDEPENDENT STUDY (1-3)</p> <p>Individually supervised study of selected topics. May be repeated for credit.</p> <p>Prerequisite: Consent of department or admission to the Master of Arts in Teaching: Music K-12 program.</p>	1	1

Nursing (NURS)

Course	Course Description	Credit Hrs.	Contact Hrs.
NURS 2190	<p>INTRODUCTION TO NUTRITION (3)</p> <p>Study of nutrients, their function, food sources, and utilization. Current issues in nutrition explored. Based on adult needs and the needs of individuals throughout the life cycle.</p> <p>Prerequisite: CHEM 1050/105.</p>	3	3

NURS 2250	HEALTH CARE ETHICS (3) Exploration of ethical theory as a framework for professional judgment and decision making. Examination of ethical dilemmas frequently encountered in the health professions. Credit not given for both NURS 2275/250 and H SC 2250/250. Prerequisite: None	3	3
NURS 2350	DIMENSIONS OF SPIRITUALITY (3) The concept of spirituality as a dimension of personal well being is examined as a lifelong developmental process which involves the human capacity of self-transcendence through the experience of a higher power. Tools and resources for spiritual growth are identified and utilized in developing and implementing a plan for personal spiritual growth.	3	3
NURS 3020	NURSING PATHOPHYSIOLOGY (3) Altered physiological and pathologic aspect of human disease across the life span. Critical thinking in the process of integrating elements of pathophysiology and nursing in the management of illness and health promotion. Prerequisite(s): Admission into the Professional Nursing Program. Co-requisite(s): NURS 3150	3	3
NURS 3051	FUNDAMENTALS OF NURSING (6) Nursing skills, health assessment techniques and critical thinking in the laboratory and selected community settings. Introduction to the process of decision-making as it relates to application of the nursing process and development of the fundamental nursing concepts, theory and skill development for beginning nursing students. Course includes the nurse client relationship, intra-professional team communication, health informatics, safety, nutrition, health prevention and health promotion. Prerequisite(s): Admission into the Nursing Program. Co-requisite(s): NURS 3101	6	6
NURS 3100	INTRODUCTION TO PROFESSIONAL NURSING FOR LICENSED PRACTICAL NURSES (LPNs) (3) Introduction to the philosophy and conceptual framework of the professional nursing program at Chicago State University. Concepts germane to current health care trends are	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	explored as they relate to the role of the professional nurse. Examination of concepts such as health promotion, communication, therapeutic nursing interventions, critical thinking, and teaching-learning. Prerequisites: Admission into the nursing program.		

NURS 3101	NURSING SEMINAR I (1) The course is designed for the beginning nursing student to synthesize professional nursing content from theory to practice. The introduction and foundation for professionalism and professional values will be established. The course will utilize critical thinking to meet the objectives and learning outcomes of the junior level. Prerequisite(s): Admission into the Nursing Program. Co-requisite(s): NURS 3050	1	1
NURS 3102	NURSING SEMINAR II (1) The course is designed for the nursing student to synthesize, professional nursing content from theory to practice. The course will utilize critical thinking to meet the objectives and learning outcomes of the initial junior level nursing, to increase knowledge and understanding, professional issues related to application to nursing practice. Prerequisite(s): NURS 3101 Co-requisite(s): NURS 3325 and NURS 3326	1	1
NURS 3140	THEORY AND PROFESSIONAL ISSUES IN NURSING (2) The course introduces students to the introductory concepts and theoretical foundations for professional nursing and advanced practice. The role of theory in the advancement of nursing science, professional practice, safety, quality promotion of health and wellness is addressed. The conceptual framework for the nursing program is discussed. Examination of concepts such as health promotion, communication, therapeutic nursing interventions, critical thinking and teaching-learning are addressed. Prerequisite(s): Admission into the Professional Nursing Program. Co-requisite(s): NURS 3051	2	2
NURS 3151	HEALTH ASSESSMENT (3) The nursing process and the role of the professional nurse in relation to health assessment. Selected methods of inquiry and investigation in gathering necessary physiological, psychological logical, cultural and spiritual data. Students are required to perform a complete health assessment. Prerequisite(s): Admission into the Nursing Program. Co-requisite(s): NURS 3020	3	3
NURS 3200	RESEARCH METHODS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Introduction to the principles and the principles and the strategies of scientific research in the health professions. Covers the fundamentals of designing a research problem, designing a study, measuring variables, selecting a sample, analyzing data and critiquing published research.</p> <p>Prerequisite: NURS 2150/203, 2300/206, 3000/240, 2200/274, 3050/290, 2100/295, 3150/301; PSYC 4190/357. Co-requisites: NURS 0950/095, 3250/340, 3300/376.</p>		
NURS 3310	<p>HIV IN PEOPLE OF COLOR (3)</p> <p>Impact of HIV on minority populations. Examination of psychosocial issues, access to treatment, economic issues, and demographics, including special populations such as teenagers, elders and pregnant women. Credit not given for both H SC 3310/310 and NURS 3310/310.</p> <p>Prerequisite: Consent of health sciences program coordinator/department of nursing.</p>	3	3
NURS 3324	<p>NURSING AND PHARMACOLOGIC INTERVENTIONS (3)</p> <p>Introduction to basic pharmacology. Emphasis on the development of critical thinking skills in the administration of pharmacologic agents.</p> <p>Prerequisite(s): NURS 3020</p>	3	3
NURS 3325	<p>COMPREHENSIVE CARE OF ADULTS (8)</p> <p>This course will provide students opportunities to apply their medical/surgical nursing concepts and skills, to young through older adult clients, utilizing the nursing process and critical thinking skills. Emphasis will be placed on prevention of illness; and promotion and maintenance of psychological and psycho-social integrity in clients-beginning with stable, chronic and less complex health conditions and advancing to acute, unstable and complex health conditions. Clinical nursing care will take place in a variety of healthcare settings.</p> <p>Prerequisite(s): NURS 3051 Co-requisite(s): NURS 3326</p>	8	8
NURS 3326	<p>MENTAL HEALTH NURSING (5)</p> <p>Secondary and tertiary care to individuals and groups of clients with mental disorders in acute and community health care settings across the life span. Critical thinking, the nursing process, communication, group theory, ad culture. Exploration of current research and public policy.</p> <p>Prerequisite(s): NURS 3051 Co-requisite(s): NURS 3102 and NURS 3325</p>	5	5
NURS 3350	<p>SPIRITUAL CARE (3)</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Dimensions of spiritual nursing care to persons throughout the life span along the health illness continuum.</p> <p>Prerequisite: NURS 2150/ 203, 3000/ 240, 2200/ 274, 3050/ 290, 2100/ 295, 3150/ 301, HSC 3210/321 or consent of the department.</p>		
NURS 3375	<p>HEALTH POLICY AND ADMINISTRATION (3)</p> <p>Designed to introduce student to the components and functions of health care systems. The main focus will be on the U.S. health care system, however approaches to health care in other countries will be discussed. Attention will be given to health care professionals interacting with health care systems. Health care administration will be examined in context of economics, fianancing and helath services research. Credit not given to both NURS 3375/2375 and H SC 3375.</p>	3	3
NURS 3400	<p>PROFESSIONAL DEVELOPMENT FOR THE RN STUDENT (3)</p> <p>Development of a professional portfolio. Review of skills necessary to be successful in a baccalaureate degree program. Professional socialization through the exploration of professional goals.</p> <p>Prerequisites: For RN students only. NURS 2200/274, 3150/301 and consent of the department.</p>	3	3
NURS 3450	<p>HEALTH PROMOTION FOR REGISTERED NURSES (3)</p> <p>The identification and implementation of health promotion strategies for individuals, families, and community wellness.</p> <p>Prerequisites: For RN students only. NURS 2200/274, 3150/301, 3400/343 and consent of the department.</p>	3	3
NURS 3500	<p>NURSING INFORMATICS (3)</p> <p>This course explores various applications of informatics as well as current trends for health care delivery across a variety of settings. Students will analyze and evaluate health information systems related to patient care, as well as the impact on the delivery of care in all practice settings. Clinical applications of technology will be emphasized with various populations including those in clinical settings, rural communities and at risk populations and communities.</p> <p>Prerequisite(s): NURS 3400/343.</p>	3	3

NURS 4051	CARE OF CHILDREN AND FAMILY (4) Focus on the nursing process in the care of well, accurately ill, and chronically ill infants, children and adolescents. Clinical experiences in clinics, emergency rooms, in-patient units and other community- based facilities. Promotion and maintenance of wellness in	4	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	pediatric clients. Prerequisite(s): NURS 3102, NURS 3324 and NURS 3325 Co-requisite(s): NURS 4201		
NURS 4150	SPECIAL TOPICS IN NURSING (1-3) Selected topics of current interest in the field of nursing. Prerequisite: Senior standing in the department.	1	1
NURS 4201	NURSING SEMINAR III (1) The course is designed for the beginning nursing student to synthesize professional nursing content from theory to practice. The course will utilize critical thinking to meet the objective and learning outcomes of the senior level, as well as synthesize and analyze professional issues and concepts in nursing practice. Prerequisite(s): NURS 3102, NURS 3324 and NURS 3325 Co-requisite(s): NURS 4210 and NURS 4051	1	1
NURS 4202	NURSING SEMINAR IV (1) The course is designed for the senior graduate nurse to intergrate professional issues for entry into professional nursing practice. The course is designed to synthesize professional nursing content from theory to practice. The course will utilize critical thinking to meet the objective and learning outcomes of the senior level, as well as synthesize and analyze professional issues and concepts in nursing practice and in preparation for licensure in the profession of nursing, Prerequisite(s): NURS 4051, NURS 4201 and NURS 4210 Co-requisite (s): NURS 4250 and NURS 4300	1	1

NURS 4210	MATERNAL CHILD NURSING (4) Holistic integration of major concepts and theories used in the care of developing/expanding families from diverse cultures. Application of the nursing process, critical thinking and problem solving for families during childbirth through health promotion, health maintenance and health restoration. Prerequisite(s): NURS 3324, NURS 3325 and NURS 3326 Co-requisite(s): NURS 4201	4	4
NURS 4251	NURSING CARE OF POPULATIONS COMMUNITY (5) Application of concepts from nursing in public health in the area of populations and communities. Use of core public health functions in developing collaborative partnerships with healthcare professionals, institutions, local governments and community organizations. Application of the nursing process using leadership, scientific methods, critical thinking and public health concepts in the care of populations and	5	5

Course	Course Description	Credit Hrs.	Contact Hrs.
	communities. Prerequisite(s): NURS 4051 and NURS 4210 Co-requisite(s): NURS 4202		
NURS 4301	NURSING LEADERSHIP AND MANAGEMENT (4) Course emphasizes nursing theory in leadership, delegation and management with a field immersion experience into the nursing clinical and leadership roles. Health policy, finance, organizational structure and regulation will be addressed. Prerequisite(s): NURS 4051 and NURS 4210 Co-requisites(s): NURS 4251 and NURS 4202	4	4
NURS 4379	NCLEX PREPARATION LECTURE AND LABORATORY /3 (1) Preparation for the National Council Licensure Examination - Registered Nurse. Includes content review, test-taking strategies, and personal preparation. Co-requisite: NURS 0950, 4150,4383.	1	3
NURS 4383	NURSING SEMINAR (1) Exploration of issues and trends in nursing research, education, and practice in a rapidly changing health care system and society Prerequisite: Senior standing in the department. Co-requisite: NURS 0950, 4200, 4300. (RN students: 4150, 4600.)	1	1

NURS 4400	<p>ADVANCED THERAPEUTICS AND PRIORITIZATION IN COMPLEX HEALTH CONDITIONS (2)</p> <p>The course is designed for the senior level nursing student to apply, synthesize, analyze professional theory content and prioritization care, delegation and practice. Therapeutic interventions applicable to improving patient health outcomes for clients with complex needs. The course will utilize critical thinking to meet the objectives and learning outcomes of the senior level and professional issues and concepts in nursing practice.</p> <p>Prerequisite(s): NURS 3325 Co-requisite(s): NURS 4201</p>	2	2
NURS 4450	<p>INDEPENDENT STUDY AND SPECIAL PROBLEMS (1-3)</p> <p>Designed for independent research and study of special nursing/health problems. May be repeated for maximum of six credit hours under different topics.</p> <p>Prerequisite: Consent of the department.</p>	1	1
NURS 5000	<p>PHILOSOPHICAL & THEORETICAL FOUNDATION OF NURSING PRACTICE (3)</p> <p>This course analyzes the history of philosophy of science as a basis for knowledge and</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>academic critiquing nursing theory, research, and practice through differing philosophical and ethical perspectives.</p> <p>Prerequisites: Admission to the Master's program.</p>		
NURS 5112	<p>ENVIRONMENTAL HEALTH AND SAFETY (3)</p> <p>This course covers the relationship between environmental exposures and diseases. Air pollution control, water pollution control, occupational health and safety, food safety, hazardous and solid waste management issues are discussed. The role of regulatory agencies, individuals and community groups in the management of environmental hazards and toxins are explored.</p> <p>Prerequisites: Consent of the Chairperson or Program Director.</p>	3	3

NURS 5117	RESEARCH METHODS IN HEALTH SCIENCES (3) This course covers the principles and strategies of scientific research in the health professions. The course covers the fundamentals of defining a research problem, designing a study, measuring variables, selecting a sample, analyzing data. Emphasis is placed on developing skills needed for analyzing research and assessment of health behaviors and the selection of health problems and design of research proposals for individual student research projects. Prerequisites: NURS 5000 or consent of the Chairperson or Program Director.	3	3
NURS 5122	PRACTICUM I (3) The practicum provides an integral part of professional education that complements and supports the learning process in the classroom. The experience provides the student with opportunities to apply knowledge and skills learned in the classroom to a variety of field work situations and to test new approaches and techniques in solving problems. The practicum is a meaningful learning experience that contributes positively to the student's professional development and nursing practice. A faculty member will coordinate the field work experience in collaboration with the site preceptors. A minimum of 500 hours is required. Prerequisites: Completion of all program course work or consent of program coordinator and instructor.	3	3
NURS 5123	PRACTICUM II (3) The practicum provides an integral part of professional education that complements and supports the learning process in the classroom. The experience provides the student with opportunities to apply knowledge and skills learned in the classroom to a variety of field work situations and to test new approaches and techniques in solving problems. The practicum is a meaningful learning experience that contributes positively to the student's professional development and nursing practice. A faculty member will coordinate the field work experience in collaboration with the site preceptors. A minimum of 500 hours is required. Course may be repeated once with consent of department chairperson.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of all program course work or consent of program coordinator and instructor.		

NURS 5124	<p>THESIS PROPOSAL RESEARCH AND DEFENSE (3)</p> <p>Students will participate in an independent research project under the supervision of a research mentor. The project will focus on individual and community health interest and problems through literature search, defining of the problem, use of theoretical and conceptual framework, methodology for data collection, analysis, findings, discussion implications and conclusion.</p> <p>Prerequisite: Completion of program course work and consent of program coordinator and instructor.</p>	3	3
NURS 5125	<p>THESIS RESEARCH AND DEFENSE (3)</p> <p>Students will participate in an independent research project under the supervision of a research mentor. The project will focus on individual and community health interest and problems through literature search, defining of the problem, use of theoretical and conceptual framework, methodology for data collection, analysis, findings, discussion implications and conclusion.</p> <p>Prerequisites: Completion of all course work.</p>	3	3
NURS 5127	<p>EXECUTIVE LEADERSHIP AND ADMINISTRATION IN HEALTH CARE (3)</p> <p>This course covers the theories and principles of leadership/management, analysis and synthesis of the relationship of leadership/management the health care delivery system, evidence-based practice, future trends and professional education.</p> <p>Prerequisites: NURS 5000, NURS 5111, NURS 5115, NURS 5117, NURS 5135, NURS 5145</p>	3	3
NURS 5131	<p>HEALTH ECONOMICS & FINANCIAL MANAGEMENT (3)</p> <p>This course presents economic analysis and the use of managerial economics to study the health care system: demand for medical services; role of health insurance; productivity and cost measurement; labor markets and competition. It examines the principles, models and practical methods for the economic evaluation of health care services, the finance in health care and recent developments in financial management of health care organizations. Applications of financial management techniques to specific problems facing health care managers, budgeting, cost behavior and forecasting, revenue and expense analysis; and strategic planning in health care agencies will be discussed.</p> <p>Prerequisites: NURS 5000 or consent of the Chairperson or Program Director.</p>	3	3
NURS 5134	<p>GLOBAL HEALTH (3)</p> <p>This course explores the historical evolution of global health. The public health and economic implications of globalization will be explored from epidemiological</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>perspectives. Emphasis is placed upon understanding of the problems of planning and managing the World Health Organization primary health care programs, particularly among people in developing nations where there are relatively high rates of infant mortality, protein energy malnutrition, financial constraints and weak public health infrastructures. Students will not receive credit for both courses. Students can only take this course once.</p> <p>Prerequisites: Consent of the Chairperson or the Program Director.</p>		
NURS 5135	<p>NURSING INFORMATICS (3)</p> <p>This course is designed to expand theory into practice, the nature of nursing, information and communication technology. It provides the nurse the tools and skills to collect, process, manage and communicate patient care data with a collaborative care delivery framework utilizing integrated networks. The goal is to communicate critical information to achieve health promotion, health restoration and maintenance as well as wellness of patient, family and community.</p> <p>Prerequisite: NURS 5000, NURS 5111, NURS 5117; or consent of the program coordinator and instructor.</p>	3	3
NURS 5140	<p>HEALTH CARE INFORMATION SYSTEMS (3)</p> <p>This course provides information on the fundamentals of the health care information system and how data are transformed into information and then again transformed into knowledge through integrated computer systems. The goal of this course is to prepare the students to be effective collaborators with the members of the health care team who do have the specialized healthcare skills, but are lacking in the technical insights.</p> <p>Prerequisites: NURS 5110, NURS 5111, and NURS 5114; or consent of Chairperson or Program Director.</p>	3	3
NURS 5141	<p>APPLICATION OF GEOGRAPHICAL INFORMATION SYSTEMS IN HEALTH (3)</p> <p>This course provides information on how to integrate geographic information system design principles into the many applications areas found in the health care system. The goal of this course is to help students develop the skills needed to identify problems and develop solutions using mapping software to present findings graphically.</p> <p>Prerequisites: NURS 5000, NURS 5111, NURS 5112, and NURS 5117.</p>	3	3
NURS 5142	<p>ADVANCED PATHOPHYSIOLOGY (3)</p> <p>The course will examine the principles of physiologic function at all levels of organization from cell to organ systems as they affect human function. The course will use homeostasis as a model to account for regulatory and compensatory functions in health. Students will develop the necessary theoretical and empirical foundation for subsequent understanding of the diagnosis and management of human responses to disease and non disease-based etiologies.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: NURS 5000 and NURS 5111		
NURS 5143	<p>PHARMACOTHERAPEUTICS (3)</p> <p>Course includes both pharmacotherapeutics and pharmacokinetics of broad categories of pharmacologic agents. Covers principles of pharmacodynamics, pharmacokinetics, adverse drug reactions, special population's considerations, in addition to the regulations relevant to prescriptive authority for advanced practice nurses. Consideration of current health status, ethnic/racial backgrounds, socioeconomic status, cultural/spiritual implications, gender, and changes which occur across the lifespan are addressed.</p> <p>Prerequisites: NURS 5000, NURS 5111, NURS 5113, NURS 5115, NURS 5117, NURS 5135, NURS 5142, NURS 5145 and NURS 5146.</p>	3	3
NURS 5144	<p>ADVANCED PHYSICAL ASSESSMENT (3)</p> <p>The purpose of this course is to establish differential diagnoses based on logical diagnostic reasoning for health maintenance, disease prevention and early detection. Content builds on previously acquired knowledge and skills of advanced physiology and pathophysiology, advanced pharmacology and the domains and competencies common to the advanced practice roles.</p> <p>Prerequisite: NURS 5000, NURS 5142, NURS 5143 or consent of program coordinator and instructor</p>	3	3
NURS 5145	<p>ETHICS, POLICY, ORGANIZATION & FINANCING OF HEALTH CARE (3)</p> <p>This course will cover ethical and legal issues in research and health care, quality cost effective care, design and implementation of care in a variety of health care systems, and the executive leadership role of a nurse in managing human, fiscal, and physical health care resources. The course will also present how health policy is formulated, how to affect this process and how it impacts clinical practice and health care delivery.</p> <p>Prerequisite: NURS 5000, NURS 5111, NURS 5117; or consent of department</p>	3	3
NURS 5146	<p>HEALTH PROMOTION AND DISEASE PREVENTION (3)</p> <p>This course will emphasize the promotion of health, prevention of illness and identification of environmental factors that impact health status, promotion of healthy lifestyle, self care, holism, risk reduction, maximizing quality life. Maintenance of function across the health-illness continuum with clients: the individual, family, or community.</p>	3	3

Occupational Therapy (O T)

Course	Course Description	Credit Hrs.	Contact Hrs.
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O T 2010	INTRODUCTION TO OCCUPATIONAL THERAPY LECTURE/FIELD /4 (3) An overview of occupational therapy philosophy, principles and practice is presented. May include experiential learning activities as well as field observation of occupational therapy programs.	3	4
O T 4100	FOUNDATION PRINCIPLES IN OCCUPATIONAL THERAPY (3) Examines the philosophical base and historical development of occupational therapy and the impact on current OT practice. Establishes a foundation for how theory, frames of reference and models guide occupational therapy practice. Prerequisite: Admission to the professional program	3	3
O T 4110	CONTEXTS OF OCCUPATIONAL THERAPY SERVICE DELIVERY (2) Examines the contextual influences of service delivery models and systems on the practice of occupational therapy. Explores the occupational needs of populations within the context of their physical, social and cultural environments. Prerequisite: OT 4100/302	3	3
O T 4140	Evaluation and Intervention I: Occupational performance Across the Life Span /10 (5) Introduction to client centered approaches to evaluation, intervention, discharge and advocacy directed towards restoring, maintaining and promoting occupational function in individuals and populations. Emphasizes the range of human performance across the life span and the influences of contexts in well populations. Includes five hours of Level I fieldwork. Prerequisite: Admission to the professional O T program. Co-requisite: O T 4160/363	5	10
O T 4141	EVALUATION & INTERVENTION II: DEVELOPMENTAL, BEHAVIORAL & COGNITIVE FRAMES OF REFERENCE /FIELD (5) Continuation of Evaluation I. Emphasizes the use of developmental, behavioral and cognitive frames of reference within OT process to restore, maintain and promote occupational function in individuals and populations. Includes level I fieldwork and senior capstone requirement. Prerequisite: O T 4100/302 and O T 4140/345 Co-requisite: O T 4161/364	5	10
O T 4150	HUMAN OCCUPATION I (3) The exploration of occupation and how it is impacted across the life span. Emphasis on task analysis and how occupation creates meaning and influences health within various contexts.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Admission to the professional program.		
O T 4151	HUMAN OCCUPATION II /LECTURE AND LABORATORY/ 4 (3) Continuation of Human Occupation I. Group process, leadership and planning occupationbased interventions. Prerequisite: OT 4150/358	3	4
O T 4160	Health Conditions I / 3 (3) Analysis of a variety of health conditions that result from lifestyle choices and chronic illness and the impact on occupational performance. Includes terminology, etiology, symptomology, prognosis and appropriate interventions. Case studies and problem-based learning. Prerequisites: Admission to the professional program. Co-requisite: O T 4140	3	3
O T 4161	HEALTH CONDITIONS II (3) Continuation of Health Conditions I. Emphasis on health conditions related to genetics, development and behavioral health of individuals served in the community and the effect on occupational performance. Course involves case studies and problem based learning. Prerequisite: O T 4140/345, O T 4160/363. Co-requisite: O T 4141	3	3
O T 5100	FOUNDATION PRINCIPLES IN OCCUPATIONAL THERAPY (3) Examines the philosophical base and historical development of occupational therapy and the impact on current OT practice. Establishes a foundation for how theory, frames of reference and models guide occupational therapy practice. Prerequisite: Admission to the professional program	3	3
O T 5110	CONTEXTS OF OCCUPATIONAL THERAPY SERVICE DELIVERY (2) Examines the contextual influences of service delivery models and systems on the practice of occupational therapy. Explores the occupational needs of populations within the context of their physical, social and cultural environments. Prerequisite: OT 5100/302G	3	3

O T 5140	Evaluation and Intervention I: Occupational performance Across the Life Span /10 (5)	5	10
	Introduction to client centered approaches to evaluation, intervention, discharge and advocacy directed towards restoring, maintaining and promoting occupational function in individuals and populations. Emphasizes the range of human performance across the life span and the influences of contexts in well populations. Includes five hours of Level I		

Course	Course Description	Credit Hrs.	Contact Hrs.
	fieldwork. Prerequisite: Admission to the professional O T program. Co-requisite: O T 5160/363G		
O T 5141	EVALUATION & INTERVENTION II: DEVELOPMENTAL , BEHAVIORAL, AND COGNITIVE FRAMES OF REFERENCE /10 (5) Continuation of Evaluation I. Emphasizes the use of developmental, behavioral and cognitive frames of reference within OT process to restore, maintain and promote occupational function in individuals and populations. Includes five hours of Level I Fieldwork per week. Prerequisite: OT 5140/345G Co-requisite: OT 5161	5	10
O T 5150	HUMAN OCCUPATION I (3) The exploration of occupation and how it is impacted across the life span. Emphasis on task analysis and how occupation creates meaning and influences health within various contexts. Prerequisite: Admission to the professional program.	3	3
O T 5151	HUMAN OCCUPATION II/4 (3) Continuation of Human Occupation I. Group process, leadership and planning occupationbased interventions. Prerequisite: OT 5150/358G	3	4
O T 5160	Health Conditions I / 3 (3) Analysis of a variety of health conditions that result from lifestyle choices and chronic illness and the impact on occupational performance. Includes terminology, etiology, symptomology, prognosis and appropriate interventions. Case studies and problem-based learning. Prerequisites: Admission to the professional program Co-requisite: O T 5140	3	3

O T 5161	HEALTH CONDITIONS II (3) Continuation of Health Conditions I. Emphasis on health conditions related to genetics, development and behavioral health of individuals served in the community and the effect on occupational performance. Course involves case studies and problem based learning. Prerequisite: O T 5140 and O T 5160. Co-requisite: O T 5141.	3	3
O T 5211	PROGRAM PLANNING FOR POPULATIONS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Analysis of how management principles are applied to the development and delivery of occupational therapy services. Determine programmatic needs and resources necessary for effective occupational therapy service delivery and implement an occupation-centered program for populations across the health and illness continuum. Prerequisites: OT 4110/305 or 5110/305G.		
O T 5220	Client Factors I: Sensory Motor/3 (3) Examines the neurobiological concepts, motor and sensory body functions and structures that influence performance of occupations. Compares normal and abnormal sensory motor factors. Prerequisite: O T 5140/345G, O T 5150/358G, and O T 5160/363G	3	3
O T 5221	CLIENT FACTORS II: PERCEPTION AND COGNITION (3) Examination of the neurobiological concepts of cognition and perception, and its influence on performance. Normal and abnormal cognitive and perceptual function will be explored. Prerequisite: OT 5220/410	3	3
O T 5230	Research Methods in Occupational Therapy/3 (3) Fundamentals of research methodology and exploration of the qualitative and quantitative methods used in occupational therapy. Emphasis on critical analysis of research necessary for evidenced-based practice. Prerequisites: O T 5100/302G, O T 5140/345G, and O T 5150/358G	3	3

O T 5231	RESEARCH PROJECT I: PROJECT DEFINITION (3) Defining a researchable question, constructing a rationale, conducting an independent literature review, formulating a hypothesis and implementing methodology of study for a beginning level research project in collaboration with faculty. May be repeated once for a total of six hours. Prerequisite: OT 5230/405	3	3
O T 5232	RESEARCH METHODS II: RESEARCH DATA COLLECTION (3) Continuation of Research Project I., Data collection, data analysis, formulating conclusions and scholarly presentation of the research project. Prerequisites: OT 5231/415	3	3
O T 5242	Evaluation & Intervention III: Biomechanical, Sensory Processing & Rehabilitative Frames of Reference / 7 (5) Continuation of Evaluation and Intervention II (O T 4141/346,5141/346G). Emphasizes the	5	7

Course	Course Description	Credit Hrs.	Contact Hrs.
	use of biomenchanical theory, sensory processing and rehabilitative frames of references within O T to restore, maintain and promote occupational function in individuals and populations. Includes 8 hours of Level I fieldwork. Prerequisites: O T 4110/305 or 5110/305G, O T 4141/346 or 5141/346G, O T 4151/359 or 5151/359G and O T 5220/410. Co-requisite: O T 5262/435.		
O T 5243	EVALUATION & INTERVENTION IV: NEURODEVELOPMENTAL, MOTOR CONTROL, MOTOR LEARNING & MULTICONTEXT TREATMENT FRAMES REFERENCES/7 (5) Continuation of Evaluation & Intervention III. Emphasis on neurodevelopmental, motor control, motor learning and multicontext treatment frames of references within OT to restore, maintain and promote occupational functioning using a client centered approach. Includes 8 hours of Level I Fieldwork. Prerequisite: O T 5242/425 and O T 5262/435 Co-requisite: O T 5221 and O T 5263	5	7

O T 5262	Health Conditions III / 3 (5) Continuation of Health Conditions II (O T 4161/364,5161/364G). Emphasis on health conditions associated with trauma, neuromuscular disorders, systemic conditions or psychiatric diagnoses and how they effect individuals as they engage in occupational performance. Course involves studies and problem-based learning. Prerequisites: O T 4141/346 or 5141/346G and O T 4161/364 or 5161/364G Co-requisite: O T 5242/425.	3	3
O T 5263	HEALTH CONDITIONS IV (3) Continuation of Health Conditions III. Emphasis on health conditions associated with severe trauma, multiple system disorders and end of life issues and how they affect individuals as they engage in occupational performance. Course involves case studies and problem based learning. Prerequisites: O T 5242/425 and O T 5262/435. Co-requisite: O T 5243	3	3
O T 5352	HUMAN OCCUPATION III: TECHNOLOGY (3) Methods of selecting and adapting technology to promote participation in occupation. Includes the selection of specific high and low technologies as well as methods for adapting, customizing and teaching necessary to incorporate technology into daily routines. Prerequisite: O T 4151/359, O T 5151/359G and O T 5243/426	3	3
O T 5370	LEVEL II FIELDWORK - ROTATION I (5) In-depth practical experience in the evaluation and intervention process of occupational	5	5

Course	Course Description	Credit Hrs.	Contact Hrs.
	performance with individuals and populations. Prerequisites: OT 5232/416 and OT 5352/450		
O T 5371	LEVEL II FIELDWORK - ROTATION II In-depth practical experience in the evaluation and intervention process of occupational performance with individuals and populations. Includes forty (40) hours of fieldwork. Prerequisites: OT 5370/460	5	

O T 5372	<p>FIELDWORK SEMINAR (1)</p> <p>Examination of the professional responsibilities required in fieldwork education, supervision and strategies for insuring ongoing professional competence.</p> <p>Prerequisites: OT 5232/416 and OT 5352/450</p>	1	1
O T 5373	<p>LEVEL II FIELDWORK ROTATION - ELECTIVE (2)</p> <p>In-depth practical experience in evaluation and intervention process of occupational performance in a non-traditional or speciality setting. Includes 216 field work hours.</p> <p>Prerequisites: O T 5232/416, O T 5243/426 and O T 5263/436</p>	2	2
O T 5380	<p>PRACTICE SPECIALIZATION IN OCCUPATIONAL THERAPY</p> <p>Introduces specialization and emergina areas of practice in occupational therapy.</p> <p>Prerequisites: OT 5371/461 or consent of the program director.</p>	3	3
O T 5395	<p>GRADUATE SYMPOSIUM (4)</p> <p>A capstone course that integrates the process of evaluation and intervention of OT practice for individuals and populations. Students required to critique their knowledge, fieldwork experiences and the impact on their preparation as a professional. This course includes computerized practice exams and the comprehensive exit examination.</p> <p>Prerequisites: Level II Fieldwork: Rotation OT 5371/461.</p>	4	4
O T 5481	<p>ADAPTIVE SKILLS FOR LEARNERS WITH SPECIAL NEEDS (3)</p> <p>This interdisciplinary course is designed to focus on methods and strategies for assisting learners with special needs develop critical adaptive skills. Emphasis will be placed on strategies for assessing and teaching functional academic and life skills needed by students to live independently in their home, school, and community settings. A case-study, remedial plan, and adapted lesson plan are completed in this course under the supervision of the departmental faculty.</p> <p>Prerequisite(s): Graduate Standing, SED 5301/301G, SED 5304/304G, SED 5476/476, SED 5477/477 and Admission to the College of Education or permission of the Chair of</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Occupational Therapy or Admission to the Master of Occupational Therapy Program.		

Physical Education (P E)

Course	Course Description	Credit Hrs.	Contact Hrs.
P E 1040	YOGA ACTIVITY /2 (1) An introduction to Hatha Yoga, which is a system of exercising and breathing techniques. May be repeated for grade and credit.	1	2
P E 1060	INTRO TO HIP-HOP DANCE (1) Fundamentals, technique and history of Hip-hop dance.	1	2
P E 1070	FOLK AND ETHNIC DANCE ACTIVITY /2 (1) Folk dances of various countries applicable to use in school educational and recreational programs. Introduction to ethnic dances through various forms of rhythmic movement.	1	2
P E 1130	BEGINNING JAZZ DANCE ACTIVITY /2 (1) An introductory course designed to explore the history and various styles of jazz dance as an art form of American heritage. May be repeated for grade and credit.	1	2
P E 1200	BEGINNING SWIMMING ACTIVITY /2 (1) Fundamental skills. American Red Cross tests.	1	2
P E 1230	FITNESS AND CONDITIONING ACTIVITY /2 (1) Fitness and conditioning of the body through weight training, exercising and jogging. Individualized programs will be recorded. May be repeated for grade and credit.	1	2
P E 1270	INTRODUCTION TO BALLET (1) Provides beginning students with fundamentals of ballet, including terminology, technique and performance. May be repeated for grade and credit.	1	2
P E 1290	Modern Dance (1) Dance as a mode of creative self-expression. May be repeated for grade and credit.	1	2
P E 1300	TAP AND CHARACTER DANCE ACTIVITY /2 (1) A comprehensive course including tap, softshoe, clog, and character dance. May be repeated for grade and credit.	1	2
P E 1420	AEROBIC DANCE ACTIVITY /2 (1) Aerobic exercises with vigorous dance movements to strengthen the cardiovascular system. May be repeated for grade and credit.	1	2

P E 1450	JAZZ-X-RCISE ACTIVITY /2 (1) Focuses on muscle tone and strength development through choreographed calisthenics. May be repeated for grade and credit.	1	2
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Course	Course Description	Credit Hrs.	Contact Hrs.
P E 1600	STEP AEROBICS ACTIVITY /2 (1) Practical application of the Health & Wellness course. Frequency, duration and intensity training principles effectively instructed with the use of steps. A cardiovascular workout to improve fitness and control weight. May be repeated for grade and credit.	1	2
P E 1620	POWER WALKING ACTIVITY /2 (1) Practical application of the activity guidelines for personal fitness. Experience the various skills and intensities designed for walking off weight. Students learn to design a walking program they can enjoy for a lifetime. May be repeated for grade and credit.	1	2
P E 1700	MULTIPLE FITNESS TRAINING ACTIVITIES (1) Experience various fitness activities for the purpose of creating an active lifestyle. The benefits of cross training are achieved as students experience a different fitness modality every 3 weeks. These activities include, but are not limited to, weight training, step aerobics, spinning and kick boxing.	1	2
P E 1900	SEMINAR IN PHYSICAL EDUCATION (1) Opportunities to familiarize freshmen and transfer students with the campus, university, College of Education and HPER Department policies and procedures. May not be counted for degree credit. Prerequisites: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.	1	1
P E 2010	Introduction to Physical Education: History and Philosophy (2) Examination of the purpose and value of physical activity from historical and philosophical perspectives in order to compare and contrast trends from ancient civilizations to current, modern times. Writing emphasis course. Prerequisites: Intended or accepted PE major	2	3
P E 2040	HEALTH & PHYSICAL EDUCATION FOR ELEMENTARY TEACHERS (3) Principles and practices required for the teaching and learning of health and physical education concepts developmentally appropriate for grades K-8. Content focus includes movement skills, health-related physical fitness, team building, and personal and community health. Designated for pre-service teachers outside of the physical education major.	3	3

P E 2070	USE OF TECHNOLOGY FOR PHYSICAL EDUCATION AND RECREATION PROFESSIONALS /4/ (3) Application of computer technology use for the physical education teacher and the recreational professional. Use of word processing, spread sheet, presentation software, web page building, grading software and other profession-specific software.	3	4
P E 2090	DANCE PERFORMANCE STUDY /ACTIVITY 2-4 (1-2)	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	Provides opportunities to perform with a company of dancers who plan, rehearse, and perform informal and formal dance presentations. May be repeated for up to ten credit hours. Prerequisite: Consent of the instructor.		
P E 2100	NON-TRADITIONAL GAMES & SPORTS (3) This course will focus on the teaching of a variety of non-traditional sports and activities that can be taught in K-12 schools. Students will learn the procedures of various games and sports and how to teach the activities to K-12 students. Prerequisite(s): Intended physical education and recreation majors.	3	3
P E 2110	AFRICAN AMERICAN DANCE HISTORY (3) Explores the contributions of African Americans in dance from the Middle Passage to the present. A look at the choreographic works of dance legends Katherine Dunham, Pearl Primus, and Alvin Ailey to contemporary artists Jawole Zollar and Bill T. Jones.	3	3
P E 2140	METHODS OF INSTRUCTION IN MOVEMENT CONCEPTS AND DANCE (2) Skills for the teaching of space awareness, effort concepts, relationships, traveling, rhythmic experiences, folk dances, and creative experiences to enhance the range and quality of skill development. Peer teaching, lesson planning, and skills testing are emphasized. Credit cannot be given for both P E 156 and P E 2140.	3	4
P E 2300	DIETETICS, PHYSICAL FITNESS AND WEIGHT CONTROL ACTIVITY /5 (4) A course designed for the control of gross body weight and improvement of physical condition (wellness) through diet analysis, physical fitness understanding and exercise.	4	5

P E 2360	AQUATICS FOR PHYSICAL EDUCATION AND RECREATION PROFESSIONALS ACTIVITY /4 (2) This course is designed for physical education and recreation majors who may be expected to teach aquatics. It includes progressive swimming instruction, observation and participation in other aquatic activities and peer teaching. Students have option to apply for Red Cross Water Safety Instructor Certification. Credit not given for both PE 2360/236 and REC 2360/236. Prerequisite: Intended physical education and recreation majors.	2	4
P E 2363	MOTOR LEARNING AND DEVELOPMENT (4) Study of the effects of growth and maturation on human development over a lifespan and how individuals acquire new motor skills or refine or adjust existing motor skills. Students will learn the sequential progression of fundamental motor skills, environmental factors (e.g. practice effects) from infancy to adulthood that influence the teaching and learning of motor skills.	4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
P E 2380	METHODS OF INSTRUCTION IN TEAM AND LIFETIME SPORTS (3) Instruction in basic skills, rules, terminology, strategies, and teaching techniques for a variety of team and lifetime sports: invasion, striking/fielding, target, net/wall. Peer teaching, lesson planning, skills testing, and game play are emphasized.	3	4
P E 2500	ASSESSMENT IN PHYSICAL EDUCATION (2) Address strategies and techniques used in assessment of elementary, middle, and secondary level students in a physical activity setting. Various instruments will be examined, developed, and administered to peers for evaluation and understanding of the feasibility and performance of the assessments.	2	2
P E 2610	PRINCIPLES OF PHYSICAL FITNESS LECTURE AND LABORATORY /4 (2) Presentation of fundamental fitness principles, experiencing of basic fitness activities for K-12 students, and incorporation of fitness into the physical education program. Introduction to heart rate monitors and TriFit machine technology.	2	4
P E 2611	PRINCIPLES OF GROUP FITNESS (2) Skills for the teaching of group fitness incorporating a variety of formats related to current trends. Peer teaching emphasized.	2	2
P E 2640	MOTOR LEARNING (3) Introduction to the major theoretical frameworks concerning motor skill acquisition. This course will focus on the factors that affect learning and control of motor skills.	3	3

P E 2800	BEHAVIOR MANAGEMENT IN PHYSICAL EDUCATION (2) Principles and practices for creating an ideal learning environment that is safe, structured, consistent and motivating. Proven best teaching practices for effectively managing behavior will be explored. Emphasis on understanding cultural differences in managing behavior and the design, implementation and evaluation of management plans to reduce behavior problems and increase appropriate conduct. Fifteen hours field experience in teacher aiding. Prerequisite(s): P E 1950/195	2	2
P E 2850	INTRODUCTION TO PHYSICAL EDUCATION (3) Introduction to the fundamental scientific and scholarly disciplines in the field of physical education. Introduction to educational learning theory, teacher dispositions, lesson plan construction and Illinois Learning Standards. Principles and practices for creating an ideal learning environment that is safe, structured, consistent and motivating. Proven best teaching practices for effectively managing behavior will be explored. Emphasis on understanding cultural differences in managing behavior and the design, implementation and evaluation of management plans to reduce behavior problems and increase appropriate conduct. Thirty-five (35) hours field experience in teacher aiding.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
P E 2980	SPECIAL TOPICS IN PHYSICAL EDUCATION (1-3) Study of a selected subject. Prerequisite: Consent of the department.	1	
P E 3010	APPLIED BIOMECHANICS LECTURE AND LABORATORY /4 (3) Structure and function of body muscles. Relationship to physical activity and performance. Additional course fee. Prerequisite: ZOOL 2050/250 or consent of the department.	3	4
P E 3030	PHYSIOLOGY OF EXERCISE LABORATORY /4 (3) Physiology of muscular movement relating to changes in the organism during and following exercise with emphasis upon the significance of such changes. Prerequisite: PSLY 2040/204 or consent of the department.	3	4

P E 3040	ADAPTED PHYSICAL EDUCATION /FIELD (3) Offers content on providing physical activity for persons with disabilities. The course will provide lectures on: characteristics of selected disabilities; federal and state laws for educating persons with disabilities; appropriate teaching and coaching strategies; equipment and behavior management strategies; and disability simulations. Fifteen hours in teaching aiding. Prerequisite: S ED 4301/301 or consent of the department.	3	3
P E 3092	ILLINOIS PHYSICAL EDUCATION TEACHER CERTIFICATION REVIEW (1) Review of physical education theory and practice in preparation for the State Teacher Certification Examination. May not be counted for degree credit. Prerequisite: Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.	1	1
P E 3280	PSYCHOSOCIAL ASPECTS OF PHYSICAL ACTIVITY (3) Study of the psychological and social factors that influence physical activity as they relate to the teaching of physical education and the coaching of sports. Prerequisite: PSYC 2040/204.	3	3
P E 3410	PERSONAL TRAINING CERTIFICATION (3) Lecture, discussion, and activity sessions in areas required for working with apparently healthy adults. Topics include: screening and evaluating, exercise program designs, exercise techniques, nutrition, and motivational and leadership skills.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: CPR certification		
P E 3520	CURRICULUM DESIGN IN PHYSICAL EDUCATION (2) Introduction to curriculum theory, physical education curriculum models, and curriculum design, along with practical and theoretical issues and concerns. (A writing emphasis course.)	2	2
P E 3800	INSTRUCTOR CANDIDATE TRAINING (1) Successful completion of this course is a prerequisite to all instructor-level American Red Cross (ARC) certifications. Content includes the organization's role of an instructor and methodology generic to all ARC instructor certification classes.	1	1

P E 3810	FIRST AID AND CPR INSTRUCTOR CERTIFICATION (1-2) Successful completion of this course will qualify the student to instruct American Red Cross certification classes in first aid and CPR. Prerequisite: ICT certification, certification in specific basic class(es).	1	1
P E 3820	WATER SAFETY INSTRUCTOR CERTIFICATION (2) Successful completion of the course will qualify the student to teach and certify in: the Learn to Swim program (I-VII); and the infant and preschool aquatic program. Prerequisite: Demonstrate quality strokes, 50 yards front and back crawl, breast, side, elementary back and 10-yard butterfly; community lifesaving certification; instructor candidate training certification.	2	2
P E 3830	LIFEGUARDING INSTRUCTOR CERTIFICATION (3) Successful completion of this course will qualify the student to teach and certify in basic lifeguarding; lifeguard training; modules in water front, water park; and CPR for the professional rescuer. Prerequisite: Lifeguard training certification, CPR for the professional rescuer certification, basic first aid certification (may be part of class), and ICT certification.	2	2
P E 4022	MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION LABORATORY /4 (3) Study, interpretation and practice in evaluative techniques. Additional course fee. Prerequisite(s): Math 1010/140, PE 2500 or concurrent enrollment or consent of department.	3	4
P E 4050	TECHNIQUES OF OFFICIATING FIELD /15 CLOCK HOURS (2)	2	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	Interpretation and application of the principles, rules and techniques of officiating team sports and individual and dual activities. Fifteen field hours include observation and aiding.		
P E 4070	CHILDREN AND YOUTH IN SPORT AND RECREATION (3) The consequence of participation in organized sport for children and youth will be examined from historical, developmental, philosophical, psychological, physiological, and sociological perspectives. The course will focus on the ethics, problems and controversies of children's participation in sport.	3	3

P E 4250	THEORIES & PRINCIPLES OF COACHING (3) Introduction to the principles of coaching youth and interscholastic athletes that are applicable across all sports. Focus on the American Sport Education Program (ASEP) philosophy of "Athletes First, Winning Second," and how one can put that approach into action. This course is one part of the ASEP coaching certification program - see P E or Recreation program descriptions for more information. Prerequisite: Active CSU email account.	3	3
P E 4420	GROUP EXERCISE CERTIFICATION /3 (2) Lecture, discussion and activity sessions in areas required for the proper and safe teaching of exercise classes. Lecture sessions include exercise programming, teaching methods, exercise physiology, applied anatomy, and fitness assessment. Activity sessions include stretching, conditioning, aerobic exercise, and fitness assessment. Prerequisite: Cardiopulmonary resuscitation.	2	3
P E 4520	INTERNSHIP IN PHYSICAL EDUCATION (3) Supervised internship experience totaling one hundred clock hours in the field. Fifty hours must be completed at both the elementary/middle school and high school student teaching site. To be taken the long semester before student teaching. A writing emphasis course. Prerequisites: Admission to the College of Education and Completion of either P E 4530/353 or 4540/354, ED 5450/450 or 5510/451.	3	3
P E 4530	METHODS AND PRACTICUM IN PHYSICAL EDUCATION IN THE ELEMENTARY/MIDDLE SCHOOL /FIELD (3) Exploration of the teaching skills required for effectively teaching physical education at the elementary/middle school. Determining skill proficiency levels, planning, organizing, establishing an environment for learning, strategies for maintaining appropriate behavior, assessing student learning, and teaching children with disabilities and from various cultural backgrounds are emphasized. A writing emphasis course. Course offered in spring term only. Prerequisite: Admission to the College of Education.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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P E 4540	METHODS AND PRACTICUM IN PHYSICAL EDUCATION IN THE SECONDARY SCHOOL /FIELD (3) Examination of the instructional, managerial, and social task systems that comprise the ecology of the classroom for the effective teaching of physical education at the secondary level. Teaching special populations and students of various cultural backgrounds is emphasized. A writing emphasis course. Prerequisite: Admission to the College of Education, ELCF 4500/353 or ED 4500 and READ 4100/306, or concurrent registration with ELCF 4500/353 and READ 4100/306.	3	3
P E 4750	STUDENT TEACHING IN K-12 PHYSICAL EDUCATION / FIELD (6) Off-campus placement in elementary/middle and high school: eight weeks teaching in an elementary school (grades K-8) or middle school (grades 5-8); eight weeks teaching in a high school (grades 9-12). University and cooperating school supervision. Five full days including seminar for 16 weeks. Credit not given for both P E 292 or 293 and P E 4750/375. No other in the specific requirements for the degree may be taken during the semester of student teaching. Up to 6 additional credit hours may be taken during the student teaching semester from an approved list designated by the department. A capstone project is required. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.	6	6
P E 4850	ADVENTURE CHALLENGE EDUCATION IN RECREATION & PHYSICAL EDUCATION (3) Use of a variety of leisure education environments for teaching and leading group activities in physical education and recreation, emphasizing trust, cooperation, problem solving, and physically challenging experience. (This course is the same as REC 4850/385).	3	3
P E 4950	CAPSTONE PROJECT (1) Designed to develop and synthesize learning in major. Project includes substantial written paper on a topic or creative work. Analysis and integration of what was learned in candidates major of study. Prerequisites: Senior standing; consent of department.	1	1
P E 4999	INDEPENDENT STUDY (1-4) Designed to investigate individual student-related problems in physical education and its related areas with the possibility of interdisciplinary research. May be repeated for credit. Prerequisite(s): Junior or senior standing or graduate student; permission of instructor, and consent of the department.	1	1
P E 5000	RESEARCH METHODS IN PHYSICAL EDUCATION AND SPORT (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Survey of research methods. Techniques of research, research design, statistical analysis theory and research ethics in physical education and sport. Identification and critique of research design, developing a research proposal. May not be taken concurrently with PE 5230.		
P E 5010	WORKSHOP IN OUTDOOR EDUCATION: WILDERNESS CANOE CAMPING /FIELD (3) A six day wilderness experience in the Boundary Water Canoe Area of the United States and Canada. Emphasis will be placed on canoeing skills, campsite organization, wilderness survival skills, and ecology.	3	3
P E 5011	APPLIED BIOMECHANICS /4/ (3) Structure and function of body muscles. Relationship to physical activity and performance. Prerequisite: BE 5010, ZOOL 2050/250 or consent of the department.	3	4
P E 5020	402 INTRODUCTION TO OUTDOOR EDUCATION /FIELD (3) Methods of organizing, and acquiring basic knowledge and skills of various forms of outdoor education activities. Thirty clock hours of field experience per term.	3	3
P E 5022	MEASUREMENT AND EVALUATION IN PHYSICALEDUCATION LECTURE AND LABORATORY /4 (3) Study, interpretation and practices in evaluative techniques. Prerequisite: Consent of the department.	3	4
P E 5030	MOTOR LEARNING (3) Instruction in fundamental processes underlying the learning and performance of all kinds of movement skills while exploring learning of skilled actions and how teacher, coach, or therapist can apply principles of motor learning and performance.	3	3
P E 5032	APPLIED ASSESSMENT IN PHYSICAL EDUCATION (3) Apply tests, measurements and statistical analysis in the evaluation of physical fitness, psychomotor skills, cognitive knowledge and effective behaviors in physical education. Students will assess the efficacy of their teaching and programs using applied systematic observation tools and technology and assessment strategies.	3	3

P E 5033	PHYSIOLOGY OF EXERCISE LECTURE AND LABORATORY /4 (3)	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Physiology of muscular movement relating to changes in the organism during and following exercise with emphasis upon the significance of such changes at various age levels.</p> <p>Prerequisite: PSLY 2040/204; consent of the department.</p>		
P E 5034	<p>PSYCHOLOGY OF EXERCISE (3)</p> <p>Introduce students to health, leisure, and exercise behavior change strategies and provide knowledge and skills necessary to improve the initiation and adherence of lifetime health and physical activity behaviors among individuals and groups. This course offers a comprehensive inquiry into individual behaviors and lifestyles that affect physical and mental health from a health promotion, exercise science, and psychological perspective. A secondary purpose of this course is to explore the relationship between exercise and mental health.</p>	3	3
P E 5040	<p>ANALYSIS OF HUMAN MOTION (3)</p> <p>Advanced kinesiological study with application to teaching methods and problems in sports, body mechanics, and conditioning.</p>	3	3
P E 5050	<p>SOCIOLOGY OF SPORT (3)</p> <p>A focus on sport as a social phenomenon and on the social and cultural structures, patterns, and organizations or groups engaged in sport.</p>	3	3
P E 5055	<p>TECHNIQUES OF OFFICIATING ACTIVITY /15/ (2)</p> <p>Interpretation and application of the principles, rules and techniques of officiating team sports and individual and dual activities. Fifteen clock hours of field observation and aiding.</p>	2	2
P E 5060	<p>PHYSIOLOGY AND MECHANICAL ASPECTS OF COACHING (3)</p> <p>A study of the human body as related to the heart, lungs, conditioning, stress and mechanics of movement and anatomy as a benefit to coaching.</p> <p>Prerequisite: PE 5011/301, 5033/303 or consent of the department.</p>	3	3
P E 5077	<p>CHILDREN AND YOUTH IN SPORT AND RECREATION (3)</p> <p>The consequences of participation in organized sport for children and youth will be examined from historical, developmental, philosophical, psychological, physiological, and sociological perspectives. The course will focus on the ethics, problems, and controversies of children's participation in sport. Credit not given for both PE 5077/307 and REC 5070/307.</p>	3	3
P E 5080		3	3

P E 5090	PSYCHOLOGY OF SPORT (3) Practical problems associated with coaching and training a competitive athlete through high school and college years. Physical, intellectual, and psychological phases of an athlete's life as being relative to the contingency of high performance.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
P E 5100	METHODS OF TEACHING ADAPTED PHYSICAL EDUCATION (3) Materials and techniques for designing and implementing a program of adapted physical education for handicapped children and adolescents.	3	3
P E 5110	ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3) Facilities, equipment, space, time, costs, staff, faculty, administration, budget, buildings, and grounds, etc. involved in the promotion of a physical education program.	3	3
P E 5150	CURRENT ISSUES IN PHYSICAL EDUCATION AND ATHLETICS (3) The study of current issues as they relate to the fields of physical education and athletics.	3	3
P E 5160	PHYSICAL EDUCATION CURRICULUM (3) Curriculum construction; content, analysis and evaluation. An examination and comparative study of existing curricula.	3	3
P E 5220	ADVENTURE EDUCATION IN THE SCHOOLS (3) An analysis of various types of nontraditional, yet physically challenging, physical activities with emphasis on cooperation, problem solving and noncompetitive techniques.	3	3
P E 5230	RESEARCH STATISTICS AND REPORTING IN PHYSICAL EDUCATION AND SPORT (3) An overview of statistical analysis and reporting of data. Overview and use of computers to analyze data. Development of results and discussion sections of a research report. May not be taken concurrently with PE 5000/400, 5240/424, 5250/425, and 5260/426. Prerequisite: PE 5000/400.	3	3
P E 5240	CAPSTONE PROJECT I (1) Independent study in research and the writing of a capstone project related to physical education for the practitioner. Focuses on the development of a research problem. Writing of an introduction/literature review, statement of the problem, and research question or hypothesis. Development of a method section. May be taken concurrently with P E 5250/425 and/or P E 5260/426. Credit not given for both P E 5240/424 and 414. Project not intended for publication or public dissemination. IRB requirements apply as appropriate. Prerequisite: PE 5000/400 and PE 5230/423; consent of department.	1	1

P E 5250	CAPSTONE PROJECT II (1) Independent study in research and the writing of a capstone project related to physical education for the practitioner. Focuses on the development of a research problem. Data collection, analysis and writing of the results section of a research project. Not intended for publication or public dissemination. IRB requirements apply as appropriate. Prerequisite: P E 5240/424; or concurrent enrollment.	1	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
P E 5255	THEORIES & PRINCIPLES OF COACHING (3) Introduction to the principles of coaching youth and interscholastic athletes that are applicable across all sports. Focus on the American Sport Education Program (ASEP) philosophy of "Athletes First, Winning Second," and how one can put that approach into action. This course is one part of the ASEP coaching certification program - see P E or Recreation program descriptions for more information. Prerequisite: Active CSU email account.	3	3
P E 5260	CAPSTONE PROJECT III (1) Independent study in research and the writing of a capstone project related to physical education for the practitioner. Focuses on drawing conclusions from data analyses. Writing of the discussion sections and completion of the research project. Not intended for publication or public dissemination. IRB requirements apply as appropriate. Prerequisite: P E 5250/425; or concurrent enrollment.	1	1
P E 5270	EPIDEMIOLOGY OF PHYSICAL ACTIVITY (3) Survey of health-related aspects of exercise and physical activity from the perspective of the science of epidemiology, including biological mechanisms for healthy adaptations to physical activity and exercise, prevalence rates of leading risk factors of illness and death in the United States, and determinants of physical activity participation.	3	3
P E 5310	CRITICAL STUDY OF SPORT IN CINEMA (3) To critically watch sport movies in order to identify important societal issues rather than watch sport movies solely for entertainment. Prerequisite: Graduate student status.	3	3

P E 5340	THEORY AND PRINCIPLES OF PHYSICAL FITNESS (3) This course is a lecture laboratory class designed to provide an understanding of the theory and principles behind fitness training, its effects on the body and its place in a healthy lifestyle.	3	3
P E 5406	ANALYSIS OF TEACHING IN PHYSICAL EDUCATION (3) A study of the major issues in RT-PE, the major questions pursued, methodologies used to address these issues, and the significant findings reported regarding these issues. Analysis and critique of the research on teaching in physical education.	3	3
P E 5410	PERSONAL TRAINING CERTIFICATION (3) Lecture, discussion, and activity sessions in areas required for working with apparently healthy adults. Topics include: screening and evaluating, exercise program designs, exercise	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	techniques, nutrition, motivational and leadership skills. Prerequisite: CPR Certification.		
P E 5420	GROUP EXERCISE INSTRUCTOR CERTIFICATION (2) Lecture, discussion and activity sessions in areas required for the proper and safe teaching of exercise class. Lecture sessions include exercise programming, teaching methods, exercise physiology, applied anatomy, and fitness assessment. Activity sessions include stretching, conditioning, aerobic exercise, and fitness assessment. Prerequisite: Cardiopulmonary resuscitation certification.	2	3
P E 5520	INTERNSHIP IN PHYSICAL EDUCATION (3) Supervised internship experience totaling one hundred clock hours in the field. Fifty hours must be completed at both the elementary/middle school and high school student teaching site. To be taken the long semester before student teaching. Prerequisites: Admission to the College of Education and Completion of either P E 5530/353G or 5540/354G, ED 5450/450 or ED 5510/451.	3	3

P E 5530	METHODS AND PRACTICUM IN PHYSICAL EDUCATION IN THE ELEMENTARY/MIDDLE SCHOOL/FIELD (3) Exploration of the teaching skills required for effectively teaching physical education at the elementary/middle school. Determining skill proficiency levels, planning, organizing, establishing an environment for learning, strategies for maintaining appropriate behavior, assessing student learning, and teaching children with disabilities and from various cultural backgrounds are emphasized. A writing emphasis course. Course offered in spring term only. Prerequisite: Admission to the College of Education.	3	3
P E 5540	METHODS AND PRACTICUM IN PHYSICAL EDUCATION IN THE SECONDARY SCHOOL /FIELD (3) Examination of the instructional, managerial, and social task systems that comprise the ecology of the classroom for the effective teaching of physical education at the secondary level. Teaching special populations and students of various cultural backgrounds is emphasized. A writing emphasis course. Prerequisites: Admission to the College of Education, ELCF 5500/353G or ED 5500 and READ 5100/306G, or concurrent registration with ELCF 5500/353G and READ 5100/306G.	3	3
P E 5750	STUDENT TEACHING IN K-12 PHYSICAL EDUCATION /FIELD (6) Off-campus placement in elementary, middle, or high schools in two or more grade levels: eight weeks teaching in an elementary school (grades K-8) or middle school (grades 5-8); eight weeks teaching in a high school (grades 9-12). University and cooperating school	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit will not be given for both P E 292 or 293 and P E 5750. A capstone project is required. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.		
P E 5810	FIRST AID AND CPR INSTRUCTOR CERTIFICATION (1-2) Successful completion of this course will qualify the student to instruct ARC certification classes in first aid and CPR. Prerequisite: ICT Certification, certification in specific basic class(es).	1	1

P E 5820	<p>WATER SAFETY INSTRUCTOR CERTIFICATION (2)</p> <p>Successful completion of the course will qualify the student to teach and certify in: the Learn to Swim Program (I-VII); and, Infant and Preschool Aquatic Program (PAP).</p> <p>Prerequisite: Demonstrate quality strokes, 50 yards front and back crawl, breast, side, elementary back and 10 yard butterfly; community lifesaving certification; instructor candidate training certification.</p>	2	2
P E 5830	<p>LIFEGUARDING INSTRUCTOR CERTIFICATION (3)</p> <p>Successful completion of the course will qualify the student to teach and certify in: Basic LIFEGUARDING; Lifeguard Training; modules (in waterfront, water park); CPR for the Professional Rescuer.</p> <p>Prerequisite: Lifeguard Training certification, CPR for the Professional Rescuer certification, and Basic First Aid certification(may be part of class), and ICT certification.</p>	2	2
P E 5840	<p>INSTRUCTOR TRAINER CERTIFICATION (3)</p> <p>Instructor Trainer Candidate course, full specialty class observations, full specialty class coteaching (cadre), observed solo teaching (cadre). Successful completion qualifies the student to teach and certify instructor-level ARC certification classes in the specialty area.</p> <p>Prerequisite: Currently authorized to teach in desired specialty area, pre-interview questions, letter of recommendation, observation of teaching, 30-40 minute interview, acceptance as Instructor Trainer Candidate.</p>	3	3
P E 5850	<p>ADVENTURE CHALLENGE EDUCATION IN RECREATION & PHYSICAL EDUCATION (3)</p> <p>Use of a variety of leisure education environments for teaching and leading group activities in physical education and recreation, emphasizing trust, cooperation, problem solving, and physically challenging experience. (This course is the same as REC 4850/385).</p>	3	3
P E 5860	<p>WORKSHOP IN AMERICAN RED CROSS INSTRUCTOR CERTIFICATION/2 - 6/ (1-3)</p>	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	Certification in an American Red Cross specialty area(s) i.e. lifeguarding, WSI, instructor trainer, first aid, CPR. May be repeated for credit up to three credit hours.		

P E 5900	CAPSTONE PROJECT (3) Independent study in research and the writing of a capstone project related to physical education for the practitioner. Focuses on the development of a research problem, methods section, data collection, analysis and writing of the results, and discussion sections of a research project. IRB requirements apply as appropriate. Prerequisite(s): PE 5000 and PE 5230	3	3
P E 5910	THESIS (1-6) Independent study in research and the writing of a thesis related to physical education. Prerequisite: PE 5000/400, 5230/423, and consent of the department.	1	1
P E 5950	CONTINUING PROFESSIONAL DEVELOPMENT (1) Attendance and participation at a prescribed number of research, technology or methodology sessions at professional conventions.	1	1
P E 5960	AQUATIC CERTIFICATION & SWIMMING POOL MANAGEMENT (3) Course will take student through the entire Red Cross swimming certification from beginning to advanced safety skills including advanced life saving. Course will also include proper management of waterfront/swimming pool facilities from pool maintenance to personnel considerations. Prerequisite: Student must have graduate status and pass a preliminary swimming test which may be waived provided adequate verification of swimming skills can be demonstrated.	3	3
P E 5970	WORKSHOP IN ATHLETIC EXCELLENCE (1-3) Devoted to the objective of assisting athletic coaches at all competitive levels in conducting a successful program in their specific sport. The workshop may be general in nature, applicable to all sports or designed for a specific sport. (May be repeated, but a maximum of three credit hours may be applied towards the degree.)	1	1
P E 5980	WORKSHOP IN PHYSICAL EDUCATION (1-3) This course accommodates the many and varied experiences either too specific, too timely, or too intense to be covered in the traditional course format. Topics may vary from term to term based upon relevance and need. (Additional fees may be required; may be repeated, but a maximum of three credit hours may be applied toward the degree.)	1	1
P E 5988	WORKSHOP IN PHYSICAL EDUCATION (1-3) Designed for teachers to study selected contemporary issues, trends and problems in	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>physical education. For intended and accepted physical education majors.</p> <p>Prerequisite: Consent of the department.</p>		
P E 5990	<p>SEMINAR IN PHYSICAL EDUCATION (1-3)</p> <p>This course is devoted to a study of a pertinent issue or topic in an area of physical education. Topics may vary from term to term based upon relevance and need. (Additional fees may be required; may be repeated if topics are different, but a maximum of three credit hours may be applied toward the degree.)</p>	1	1
P E 5999	<p>INDEPENDENT STUDY (1-3)</p> <p>Investigate individual student-related problems in physical education and related areas.</p> <p>Prerequisite: Undergraduate Jr./Sr. or graduate status; permission of instructor and consent of the department.</p>	1	1

Physical Therapy (P T)

Course	Course Description	Credit Hrs.	Contact Hrs.
P T 1101		2	2
P T 1103		1	3
P T 2299		1	1
P T 3301	FOUNDATIONS OF PHYSICAL THERAPY LECTURE AND FIELD /5 (3) Students in the Pre-Physical Therapy program will complete a senior capstone project in the semester of their graduation. The project will demonstrate the student's ability to review and analyze current literature in physical therapy. The pre-physical therapy student must select their capstone project topic during the H SC 3316 - Medical Science course. The topic must be a defined disease condition. In P T 3301 - Foundation of Physical Therapy, the student will undertake an in-depth review of the literature on the physical therapy management of the selected disease condition during the H SC 3316 - Medical Science.	3	5
P T 3302		3	7
P T 3304		3	7
P T 3306		5	15
P T 3308		3	8
P T 3310		7	20
P T 3312		3	5
P T 3314		3	5
P T 3316		3	6
P T 3320		1	2
P T 3322		1	4
P T 3324		2	5
P T 3330		4	8
P T 3332		1	4
P T 3334		1	2
P T 3340		1	3
P T 3350		1	1
P T 3352		1	1
P T 3354		1	1

P T 3356		2	2
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Physical Science (PH S)

Course	Course Description	Credit Hrs.	Contact Hrs.
PH S 1000	SCIENCE, SOCIETY AND SURVIVAL (3) Science and its relationship with society today. Emphasis on environment and conflicts between technology and survival. (Enrichment core course.) IAI: P1 901	3	3
PH S 1010	ENERGY IN TODAY'S WORLD (3) Energy resources and conversion, with a focus on the generation of electrical energy. Applications range from electric oars to nuclear fusion generating plants. Effects of large scale energy conversion on humans in terms of resource depletion, pollution and the increasing dependence upon automation. (Enrichment core course.) IAI: P1 901	3	3
PH S 1060	DISCOVERING OCEANOGRAPHY (3) The fundamental, geological, chemical and physical marine processes, necessary to understand and interpret the ocean's environment and it's human impact.	3	3
PH S 1080	CRITICAL THINKING ABOUT TECHNOLOGY (3) Areas of current interest in science and technology will be used as the focal point for development of critical thinking skills, including critical reading, analysis of problems, and reasoning. Topics of focus will vary by instructor and what is in the public eye. (Critical thinking course.)	3	3
PH S 1100	PRACTICAL PHYSICS I LECTURE & LABORATORY (3) Fundamentals of physics are applied to everyday life. Basic principles such as kinematics, thermodynamics, electricity, and radiation are covered, along with an introduction to the scientific worldview. Additional course fee. IAI: P9 900L	3	4
PH S 1130	PRACTICAL CHEMISTRY I LECTURE & LABORATORY (3) Fundamentals of chemistry are applied to everyday life. Basic principles such as atoms, molecules, periodic properties, and organic chemistry are applied to consumer products, soaps, polymers, viscosity, and water. Credit cannot be earned for both PH S 103 and 1130/113. (Enrichment core course.) Additional course fee. IAI: P1 903L	3	4
PH S 1140	PRACTICAL EARTH AND SPACE SCIENCE I LECTURE & LABORATORY (3) Introduction to the study of continents, oceans, and the atmosphere; weather and climate of planet Earth, along with an introduction to astronomy and space science. Enrichment core course. Additional course fee. IAI: P1 905L	3	4

PH S 1150	BASIC ASTRONOMY (3) Introductory laboratory and lecture class in astronomy. Focus on the physical principles of the solar system stars, galaxies and cosmology. Examination of humanity's place in the	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	universe. Co-requisite: any 1000-level or above Math class.		
PH S 1800	FORENSIC CHEMISTRY (3) Application of physical science to analyzing evidence in criminal investigations. Topics covered in this interdisciplinary lecture/laboratory course include organic and inorganic analysis of samples, forensic toxicology, forensic blood analysis, fingerprints, firearms and impressions, drug analysis, arson investigations, DNA, and an introduction to microscopes and modern chemical instrumentation. Emphasis placed on understanding the science behind the techniques used in evaluating evidence.	3	4
PH S 1850	GLOBAL CLIMATE CHANGE (3) Principles from chemistry and urban ecology to examine global climate change and its impact on society. Current literature supporting and opposing climate change will be reviewed. The impact of human activity on climatic change and the benefits of sustainable practices will be explored.	3	3
PH S 2110	PRACTICAL PHYSICS II FOR TEACHERS (3) Continuation of Physical Science 1100/110. Kinematics, dynamics, heat and temperature, electricity and magnetism, and geometical and physical optics. Dual emphasis on content and on teaching methods for a standards -based science classroom. PREREQUISITE: Physical Science 1100/110	3	4
PH S 2113	PRACTICAL CHEMISTRY II / (3) Continuation of Physical Science 1130/113. Chemical safety, nuclear science, color science, molecular structures, chemical separations, electrochemistry, solution preparation, environmental chemistry, stoichiometry, and nutrition. Dual emphasis on content and on teaching methods for a standards-based science classroom. Prerequisite: Physical Science 1130/113; Co-requisite: any 1000-level or above Math class.	3	4
PH S 2120	AFRICAN AMERICANS IN SCIENCE AND SOCIETY (3) Contributions made by African Americans in math, physics, chemistry, engineering, medicine, and sociology. Exploration of the relationship between the scientist and society.	3	3

PH S 5980	SELECTED TOPICS IN PHYSICAL SCIENCE (1-9) An exploration of both content specific and pedagogical topics for elementary and high school teachers in physical science. May be repeated under different topics for a maximum total of nine credit hours.	1	1
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Pharmacy (PHAR)

Course	Course Description	Credit Hrs.	Contact Hrs.
PHAR 6110	PHARMACY PHYSIOLOGY (5) Fundamental principles of normal physiological function of the human body for the pharmacy student. Topics include all major organ systems and will include the relationship between anatomy and physiology, as well as, allow for interpretation of pathophysiological states. Prerequisites: Admission into the Doctor of Pharmacy Program.	5	5
PHAR 6111	PHARMACEUTICAL DOSAGE FORMS I - SOLID DOSAGE FORMS (3) Physiochemical properties for the formulation, preparation, stability, and performance of solid pharmaceutical dosage forms. The mathematical calculations for the dosage forms will also be incorporated into the lecture and laboratory sessions. A weekly laboratory session allows for application of pharmaceutical properties and calculations to pharmaceutical compounding. Prerequisites: Admission into the Doctor of Pharmacy Program.	3	5
PHAR 6112	PHARMACEUTICAL DOSAGE FORMS II - NON-SOLID DOSAGE (3) Physiochemical properties for the formulation, preparation, stability, and performance of non-solid pharmaceutical dosage forms. The mathematical calculations for the dosage forms will also be incorporated into the lecture and laboratory sessions. A weekly laboratory session allows for application of pharmaceutical properties and calculations to pharmaceutical compounding. Prerequisites: Completion of PHAR 6111 or consent of instructor.	3	5
PHAR 6113	PHARMACEUTICAL BIOCHEMISTRY I-MACROMOLECULES AND METABOLISM (3) Structure/function relationship for biologically important molecules. Topics include anabolic and catabolic pathways of human metabolism for proteins/carbohydrates/lipids as well as the function of those macromolecules in normal and abnormal physiological function. Prerequisites: Admission into the Doctor of Pharmacy Programs.	3	3

PHAR 6114	PHARMACEUTICAL BIOCHEMISTRY II-MOLECULAR BIOLOGY AND PHARMACOGENETICS (3) A continuation of PHAR 6113 with focus on basic genetics, regulation of metabolic function, and principles of gene expression. The application of genetic principles to pathophysiological states and medication use will also be discussed. Prerequisites: Completion of PHAR 6113 or consent of instructor.	3	3
PHAR 6115	MICROBIOLOGY AND IMMUNOLOGY (4)	4	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Fundamental principles of clinical microbiology with emphasis on prevention, control, and rational management of pathogenic organisms. Additionally covers basic principles of immunology including: cells and organs of the immune system, activation of the immune system, and the role of the immune system in response to infectious disease. Other topics include organ transplant, autoimmunity, immune suppression, and hypersensitivity. Prerequisites: Admission into the Doctor of Pharmacy Program.		
PHAR 6120	INTRODUCTION TO PHARMACY AND HEALTH CARE SYSTEMS (3) Structure and composition of the United States health care delivery system. Political and economic issues are introduced and their implications for the practice of pharmacy. The history of pharmacy, its role in the health care system, and interactions with other health care professionals is discussed. Prerequisites: Admission into the Doctor of Pharmacy Program.	3	3
PHAR 6121	PROFESSIONAL PRACTICE I-INTRODUCTION TO PHARMACY PRACTICE (3) Factors that influence contemporary pharmacy practice, roles, responsibilities and expectations are explored. Includes medical terminology and commonly prescribed drugs dispensed in a community pharmacy practice setting. A four (4) hour weekly introductory pharmacy practice experience in a community pharmacy allows for application of principles. Prerequisites: Admission into the Doctor of Pharmacy Program.	3	6

PHAR 6122	<p>PROFESSIONAL PRACTICE II-PUBLIC HEALTH: POLICY, PREVENTION AND WELLNESS (2)</p> <p>Principles of the United States public health system for the pharmacist. Focus on public health policy, health promotion and disease prevention initiatives. Population-specific applications, quality improvement strategies and research processes utilized to identify and solve public health problems are discussed. A four (4) hour weekly service-learning practicum in a community-based public health services center allows for application of principles.</p> <p>Prerequisites: Completion of PHAR 6121 or consent of instructor.</p>	2	6
PHAR 6123	<p>RESEARCH METHODS AND PHARMACOEPIDEMIOLOGY (3)</p> <p>Introduction to the statistical concepts and methods utilized when applying statistics to health and pharmacy-related decision-making and patient care. Application of principles of epidemiology to the study of drug use and outcomes in large populations included. Common methods of conducting epidemiologic research in pharmacy practice will be covered.</p> <p>Prerequisites: Admission into the Doctor of Pharmacy Program.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PHAR 6124	<p>PATIENT ASSESSMENT (2)</p> <p>Introduction to concepts and skills used by pharmacists to provide patient-centered care. Patient interviewing, medication history taking, triage, critical thinking and physical assessment technique development are included. The application of these skills in pharmacy practice settings is emphasized and reinforced in laboratory sessions.</p> <p>Prerequisites: Admission into the Doctor of Pharmacy Program.</p>	2	4
PHAR 6211	<p>PRINCIPLES OF PHARMACOKINETICS (3)</p> <p>Principles of biopharmaceutics and pharmacokinetics including calculation and interpretation of kinetic data. Additional topics include factors that determine drug disposition, design and adjustment of dosing regimens, and prediction of drug interactions.</p> <p>Prerequisites: Admission into the Doctor of Pharmacy Program.</p>	3	4

PHAR 6213	PHARMACEUTICAL DOSAGE FORMS III-STERILE PRODUCTS (2) Physiochemical properties for the formulation, preparation, stability, and performance of sterile dosage forms. The mathematical calculations for the dosage forms will also be incorporated into the lecture and laboratory sessions. A weekly laboratory session allows for application of pharmaceutical properties and calculations to sterile product preparation. Prerequisites: Completion of PHAR 6112 or consent of instructor.	2	4
PHAR 6222	LITERATURE EVALUATION AND EVIDENCE-BASED MEDICINE (2) Overview of drug information resources and systematic approaches for critical evaluation of the medical literature. Problem-based learning strategies will be utilized to assist in combining clinical expertise, patient characteristics and medical evidence for clinical decision-making and effective communication of information. Prerequisites: Completion of PHAR 6123 or consent of instructor.	2	2
PHAR 6223	PROFESSIONAL PRACTICE III-INSTITUTIONAL ORIENTATION (1) Orientation to introductory pharmacy practice experience in an institutional pharmacy setting allows for application of principles. Prerequisites: Completion of PHAR 6122 or consent of instructor.	1	40
PHAR 6224	PROFESSIONAL PRACTICE IV-INSTITUTIONAL (2) Exploration of medication use processes in institutional pharmacy practice settings. Technology, patient safety principles, pharmaceutical compounding (sterile and nonsterile), operational issues and formulary management are emphasized . An eight (8)	2	9

Course	Course Description	Credit Hrs.	Contact Hrs.
	hour weekly introductory pharmacy practice experience in an institutional pharmacy settings allows for application of principles. Prerequisites: Completion of PHAR 6223 or consent of instructor.		

PHAR 6225	<p>APPLIED PATIENT CARE I (3)</p> <p>Application of patient and health professional behavioral science principles, social issues and patient-centered pharmacy care principles, pharmaceutical knowledge and effective professional communication. Laboratory sessions will focus on immunization certification and delivery, basic life support certification, medical chart review, patient interviewing, medication therapy problem solving, devices and OTC product selection. Issues related to cultural competency are included.</p> <p>Prerequisites: Completion of PHAR 6121, PHAR 6122 and second-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	3	7
PHAR 6226	<p>APPLIED PATIENT CARE II (3)</p> <p>Application of patient-centered pharmacy care principles, pharmaceutical knowledge and effective professional communication techniques to solve prescription problems and provide drug therapy management in ambulatory pharmacy environments. Laboratory sessions will focus on medication dispensing (prescription and OTC), patient counseling, medical chart review, medication-related problem solving, medication dosage forms, health professional communications, medication error prevention and administration.</p> <p>Prerequisites: Completion of PHAR 6121, PHAR 6122, PHAR 6225 and second-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	3	5
PHAR 6227	<p>PHARMACY LAW AND ETHICS (3)</p> <p>Federal and state statutes and regulations pertaining to the practice of pharmacy, licensing of pharmacists and supportive personnel, and drug distribution. Case law, standards of care and the ethical dilemmas encountered during the provision of care in a variety of patient populations are included. Issues relative to business activities and professional ethics are also covered.</p> <p>Prerequisites: Second-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	3	3
PHAR 6231	<p>DRUG ACTION, STRUCTURE, AND THERAPEUTICS I-INTRODUCTION (3)</p> <p>Integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Introduction to pathology and disease states, ADME principles and drug design, receptor theory and signaling mechanisms, and logical patient evaluation.</p> <p>Prerequisites: Second-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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PHAR 6232	<p>DRUG ACTION, STRUCTURE, AND THERAPEUTICS II-NUTRITION, ANS, AND CARDIOVASCULAR AND RENAL I (4)</p> <p>Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Focus on patient nutrition/fluid/electrolyte requirements, autonomic nervous system, and therapy for cardiovascular and renal disorders.</p> <p>Prerequisites: Completion of PHAR 6231 or consent of DAST Coordinator.</p>	4	5
PHAR 6233	<p>DRUG ACTION, STRUCTURE, AND THERAPEUTICS III-CARDIOVASCULAR AND RENAL II (4)</p> <p>Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Completion of therapy for cardiovascular and renal disorders.</p> <p>Prerequisites: Completion of PHAR 6232 or consent of DAST coordinator.</p>	4	5
PHAR 6234	<p>DRUG ACTION, STRUCTURE, AND THERAPEUTICS IV-ENDOCRINE, PULMONARY, AND GENITOURINARY (4)</p> <p>Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Focus on therapy of endocrine, pulmonary, and genitourinary disorders.</p> <p>Prerequisites: Completion of PHAR or consent of DAST coordinator.</p>	4	5
PHAR 6321	<p>PHARMACY PRACTICE MANAGEMENT (3)</p> <p>Introduction of pharmacy operations management, pharmacy financial resources oversight, personnel management and human resources, medication-use process management, compensation mechanisms for pharmacy services, medication safety initiatives, error prevention strategies, developing and marketing of services, innovative services provision and related issues in professional pharmacy practice.</p> <p>Prerequisites: Third-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	3	3
PHAR 6322	<p>DISEASE AND MEDICATION THERAPY MANAGEMENT I (3)</p> <p>Management of major disease states and medication therapy. Application of knowledge and skills in the following areas will be emphasized: patient interviewing, information gathering, drug therapy planning and problem solving, therapeutic monitoring, therapeutic interventions, and documentation. Workshop sessions will focus on knowledge reinforcement in addition to physical assessment, patient counseling, clinical services reimbursement, and health care provider communication (written and oral) activities.</p> <p>Prerequisites: Completion of PHAR 6231, PHAR 6232, PHAR 6233, PHAR 6234 and third-</p>	3	5

Course	Course Description	Credit Hrs.	Contact Hrs.
	year standing in the Doctor of Pharmacy program or consent of instructor.		
PHAR 6323	<p>DISEASE AND MEDICATION THERAPY MANAGEMENT II (2)</p> <p>Management of major disease states and medication therapy with an emphasis on special populations. Application of knowledge and skills in the following areas will be emphasized: patient interviewing, information gathering, drug therapy planning and problem solving, therapeutic monitoring, therapeutic interventions, and documentation. Workshop sessions will focus on knowledge reinforcement in addition to physical assessment, patient counseling, clinical services reimbursement, and health care provider communications (written and oral) activities. Issues related to cultural competency are included.</p> <p>Prerequisites: Completion of PHAR 6322 and third-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	2	4
PHAR 6324	<p>HEALTH ECONOMICS AND DRUG TREATMENT OUTCOMES (2)</p> <p>Basic and applied economic theory and principles, pharmacoeconomic analysis of the cost of drug therapy to health care systems and society, and application of pharmacoeconomic research principles in the determination of alternatives producing the best health outcomes for invested resources. Issues related to formulary management, drug usage evaluation, adverse drug events, reimbursement models, and health care reform will also be included.</p> <p>Prerequisites: Completion of PHAR 6123 and third-year standing in the Doctor of Pharmacy program or consent of instructor.</p>	2	2
PHAR 6325	<p>PROFESSIONAL PRACTICE V-APPLIED PRACTICE SKILLS (1)</p> <p>Application of patient-centered pharmacy care principles, pharmaceutical knowledge and effective professional communication. An independently arranged forty hour intermediate experience in a community pharmacy practice setting allows for application of principles with professional communication emphasized. Participation in first and second professional-year student teaching will also be assigned.</p> <p>Prerequisites: Completion of PHAR 6224 or consent of instructor.</p>	1	40

PHAR 6326	PROFESSIONAL PRACTICE VI-APPLIED PRACTICE SKILLS (1) Application of patient-centered pharmacy care principles, pharmaceutical knowledge and effective professional communication. An eighty two hour intermediate experience in an acute or ambulatory care pharmacy practice setting allows for application of principles with clinical reasoning emphasized. The development of a comprehensive pharmaceutical care plan with an accompanying patient case presentation will be required at the conclusion of the practicum. Prerequisites: PHAR 6225 or consent of instructor.	1	82
PHAR 6327	COMPLEMENTARY MEDICINE (2)	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	Overview of complementary and alternative medicine. Emphasis on herbals and other dietary supplements and their use in management of disease. Prerequisites: Third-year standing in the Doctor of Pharmacy program or consent of instructor.		
PHAR 6335	DRUG ACTION, STRUCTURE, AND THERAPEUTICS V-GASTROINTESTINAL, IMMUNOLOGICAL, AND CENTRAL NERVOUS SYSTEM I (4) Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Focus on therapy of gastrointestinal, immunological, and central nervous system disorders. Prerequisites: Completion of PHAR 6234 or consent of DAST coordinator.	4	5
PHAR 6336	DRUG ACTION, STRUCTURE, AND THERAPEUTICS VI-CENTRAL NERVOUS SYSTEM II AND ACUTE CARE (4) Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Completion of therapy for central nervous system disorders and focus on substance abuse and management of critically ill patients. Prerequisites: Completion of PHAR 6335 or consent of DAST coordinator.	4	5
PHAR 6337	DRUG ACTION, STRUCTURE, AND THERAPEUTICS VII-INFECTIOUS DISEASE (4) Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Focus on therapy of infectious diseases caused by bacteria, fungi, protozoans, and helminths. Prerequisites: Completion of PHAR 6336 or consent of DAST coordinator.	4	5

PHAR 6338	<p>DRUG ACTION, STRUCTURE, AND THERAPEUTICS VIII-VIROLOGY, ONCOLOGY, AND TOXICOLOGY (4)</p> <p>Continuation of integrated pharmacy curriculum for disciplines of pathophysiology, medicinal chemistry, pharmacology, and therapeutics. Focus on infectious diseases caused by viruses, therapy of neoplastic diseases, and basic/clinical toxicology.</p> <p>Prerequisites: Completion of PHAR 6337 or consent of DAST coordinator.</p>	4	5
PHAR 6421	<p>INTRODUCTION TO ADVANCED PHARMACY PRACTICE EXPERIENCE (APPE) (0)</p> <p>Orientation and overview of expectations while completing the advanced pharmacy practice experiences. Required assignments, performance criteria/grading, preceptor/site evaluations, and other general guidelines will be emphasized during this three day orientation. Assessment of the course will be pass/fail.</p>	0	24

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Prerequisites: Successful completion of PHAR 6326 or consent of instructor and fourth professional year standing.</p>		
PHAR 6422	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (REQUIRED): AMBULATORY CARE (5)</p> <p>Clinical pharmacy practice experience in an ambulatory care setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6423	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (REQUIRED): COMMUNITY (5)</p> <p>Clinical pharmacy practice experience in a community setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6424	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (REQUIRED): INSTITUTIONAL (5)</p> <p>Clinical pharmacy practice experience in an institutional setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40

PHAR 6425	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (REQUIRED): GENERAL MEDICINE (5)</p> <p>Clinical pharmacy practice experience in a general medicine setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6426	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ADVANCED AMBULATORY CARE (5)</p> <p>Clinical pharmacy practice experience with additional exploration focusing on an ambulatory care setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6427	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ADVANCED COMMUNITY</p>	5	40

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>(5)</p> <p>Clinical pharmacy practice experience with additional exploration focusing on a community setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>		
PHAR 6428	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ADVANCED MEDICINE (5)</p> <p>Clinical pharmacy practice experience with additional exploration focusing on a general (or specialty) medicine setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40

PHAR 6429	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): CRITICAL CARE (5)</p> <p>Clinical pharmacy practice experience with additional exploration focusing on a critical care setting with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6430	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): DRUG INFORMATION (5)</p> <p>Pharmacy practice experience in a drug information center. Providing written and verbal communication of drug information to healthcare professionals, patients, and the general public.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6431	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): GERIATRICS (5)</p> <p>Clinical pharmacy practice experience focusing on the geriatric patient population with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6432	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): PHARMACOKINETICS (5)</p>	5	40

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Clinical pharmacy practice experience focusing on the pharmacokinetic monitoring of patients with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>		

PHAR 6433	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): NUTRITION (5)</p> <p>Clinical pharmacy practice experience focusing on nutrition with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6434	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): PEDIATRICS (5)</p> <p>Clinical pharmacy practice experience focusing on the pediatric patient population with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6435	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): PSYCHIATRY (5)</p> <p>Clinical pharmacy practice experience focusing on the psychiatric patient population with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6436	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): SURGERY (5)</p> <p>Clinical pharmacy practice experience focusing on the surgical patient population with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6437	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): HOME HEALTH (5)</p>	5	40

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Clinical pharmacy practice experience focusing on the home health patient population with application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>		
PHAR 6438	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ADVANCED SPECIALTY (5)</p> <p>Pharmacy practice experience in a variety of settings such as an association, public health oriented site, or other health-care related entity. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6439	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ADMINISTRATIVE (5)</p> <p>Pharmacy practice experience with a focus on the management of a pharmacy within an institution or other practice setting, including supply procurement, human resource management, interdepartmental committees. The application of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6440	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): INDUSTRY (5)</p> <p>A pharmacy practice experience in a pharmaceutical industry setting. Settings can include pharmaceutical manufacturers, pharmacy benefit managers (PBM), pharmacy consultants and related pharmacy settings.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing. Other prerequisites may apply to specific field sites.</p>	5	40
PHAR 6441	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): MAIL ORDER PHARMACY (5)</p> <p>Clinical pharmacy practice experience with additional exploration focusing on mail order pharmacy. Focus on application of patient profile review, medication utilization, formulary review, assessment, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6442	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): RESEARCH (5)</p> <p>A pharmacy practice experience with emphasis on research. Focus on development of</p>	5	40

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>skills to conduct bench, clinical, or community based research.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing. Other prerequisites may apply based on the specific research focus.</p>		
PHAR 6443	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): REGULATORY (5)</p> <p>A pharmacy practice experience in a pharmacy regulatory setting. Settings to include: Food and Drug Administration (FDA), National Institutes of Health (NIH), Centers for Disease Control (CDC), State Boards of Pharmacy, Drug Enforcement Administration (DEA) and other related settings.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing. Other prerequisites may apply based on site specific requirements.</p>	5	40
PHAR 6444	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ACADEMIA (5)</p> <p>A pharmacy practice experience in an academic setting. An emphasis will be placed on curriculum, curricular design, teaching, assessment, and accreditation.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6445	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): VETERINARY PHARMACY (5)</p> <p>Clinical pharmacy practice experience focusing on veterinary pharmacy. Focus on application of patient profile review, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40
PHAR 6446	<p>ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): NUCLEAR PHARMACY (5)</p> <p>Clinical Pharmacy practice experience focusing on nuclear pharmacy. Focus on application of patient profile review, medication utilization, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.</p> <p>Prerequisite: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.</p>	5	40

PHAR 6447	ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): INFECTIOUS DISEASE (5) Clinical pharmacy practice experience with additional exploration focusing on infectious disease. Focus on application of patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized.	5	40
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.		
PHAR 6448	ADVANCED PHARMACY PRACTICE EXPERIENCE (ELECTIVE): ONCOLOGY (5) Clinical pharmacy practice experience focusing on oncology. Focus on application of patient profile review, patient interviewing, assessment, treatment plan development, and monitoring skills. The integration of problem-solving, critical thinking and communication is emphasized. Prerequisites: Completion of PHAR 6421 or consent of instructor and fourth professional year standing.	5	40
PHAR 6499	PHARMACY CAPSTONE (0) The Capstone Research Project is designed to allow pharmacy students to apply and integrate knowledge learned throughout the curriculum to the development and implementation of a research-based project. This non-credit course will serve as a foundation for developing research skills of professional students. Opportunities to practice application of the material will occur through workshops, assignments, and self-reflections integrated into various points in the doctor of pharmacy curriculum. Topics discussed will include an introduction to the research process, developing a project idea and research proposal, mentoring relationships, as well as a workshop on creating an abstract, poster, and research manuscript. Prerequisites: Admission into the Doctor of Pharmacy Program.	0	10
PHAR 6501	SPECIAL PROJECT/RESEARCH (1) Courses provide an opportunity for students to work with individual faculty mentors on projects of variable scope. Included activities could be library and/or laboratory and/or survey-type research. All special projects or research need to be approved by the appropriate department chair. Prerequisites: Admission into the Doctor of Pharmacy Program.	1	

PHAR 6502	SPECIAL PROJECT/RESEARCH (2) Courses provide an opportunity for students to work with individual faculty mentors on projects of variable scope. Included activities could be library and/or laboratory and/or survey-type research. All special projects or research need to be approved by the appropriate department chair. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	
PHAR 6503	COMMUNITY SERVICE (2) Hands-on involvement in a community service project and discussion with community leaders, to better prepare to provide pharmaceutical care to a wider segment of the	2	

Course	Course Description	Credit Hrs.	Contact Hrs.
	population. Includes development and implementation of a service project or participation in a project currently sponsored by the University. Permission of the Dean's Office is required. Prerequisites: Admission into the Doctor Pharmacy Program.		
PHAR 6504	CURRENT TOPICS IN HEALTH CARE (2) Explores current topics in health care and examines their relationship and potential impact on pharmacy practice and education. The course will require students to review current news periodicals and Internet-based news courses. Cases will be assigned that require critical analysis and writing of executive summaries. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6505	DANGEROUS PLANTS AND ANIMALS (2) Focuses on the recognition and identification of dangerous plants and animals found primarily, but not exclusively, in Illinois. The student will learn to assess poisoning situations and recommend management scenarios. Lectures and workshops involving case studies and field trips will be utilized. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6506	NEW DRUG PRODUCT DEVELOPMENT (2) Discussion of current issues involved with drug discovery, development, and regulation. Topics to be discussed include the inclusion of women and children in clinical trials, regulation of dietary supplements and generic drugs, FDA approval of new drugs, RX to OTC switch, product labeling, and direct to consumer marketing. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2

PHAR 6507	NOVEL DRUG DELIVERY (2) Provides an understanding of novel ways of drug delivery for improved therapeutic effects. Contemporary delivery systems as well as those under advanced development will be discussed. Students will examine the rationale, design, and application of these novel delivery systems. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	4
PHAR 6508	MANAGEMENT OF CRITICALLY III PATIENTS (2) Designed to provide the student with skills for the management of critically ill patients. Expands on topics taught in the required courses. This course is directed toward the student seeking to pursue a general pharmacy practice and/or specialized residency program after graduation. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	4

Course	Course Description	Credit Hrs.	Contact Hrs.
PHAR 6509	ISSUES IN INFECTIOUS DISEASES (2) Topics in infectious diseases that frequently are addressed in the lay press. Topics to be discussed may include: Bacterial resistance and the "Super Bugs", Hepatitis, tropical diseases and travel medicine, drug resistant TB, animal/insect borne diseases and emerging viral and fungal pathogens. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6510	SPORTS MEDICINE FOR THE PHARMACIST (2) Introduces pharmacy students to the specialized applications of drugs used in competitive sports. The historical developments leading to present-day use of performance enhancing drugs will be introduced. The basic pharmacology and toxicology of all the categories of drugs (e.g. anabolic steroids, stimulants, etc.) banned by the major amateur athletic organizations will be discussed. Both nonprescription and prescription medicines will be discussed including the growing area of "nutritional supplements". Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6511	COMMUNITY PHARMACY MANAGEMENT (2) Presented by members of upper management of community pharmacies. Address major aspects of the management of modern community pharmacies. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2

PHAR 6512	MEDICAL SPANISH (2) Provides the student with the communication skills necessary to provide care to the Spanish-speaking patient. At the end of this course, students will have an expanded Spanish vocabulary (selected nouns, verbs, adjectives, phrases ect.) plus items specifically related to the practice of pharmacy (i.e., parts of the body, drug formulations, selected disease conditions, etc.). Directed as students not fluent in Spanish. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6513	CONTEMPORARY COMPOUNDING (2) Designed to expand the students' expertise in the field of extemporaneous compounding. Students will learn practical aspects of compatibility and stability of compounded prescriptions and parenteral products. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	6
PHAR 6514	ISSUES IN AMBULATORY CARE (2) Focus on the role of the pharmacist in the ambulatory care setting. Topics will include potential practice opportunities available and the documentation, reimbursement,	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	justification, and marketing of the pharmacist's services. In addition, the student will develop care plans, design outcomes research projects, and examine the importance of the multidisciplinary approach to patient care. Prerequisites: Admission into the Doctor of Pharmacy Program.		
PHAR 6515	SUBSTANCES OF ABUSE AND ADDICTION (2) Provides an in-depth study of the neuropharmacology of substances of abuse including stimulants, depressants, hallucinogens, and inhalants. Designed to expand on information in required courses. Emphasis on basic pharmacokinetic and pharmacodynamic mechanisms related to the effects of the individual substances of abuse. Current theories of addiction and tolerance will be presented. In addition, various treatments for dependence and detection methods as well as social, legal, and ethical aspects of substances of abuse will be considered. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2

PHAR 6516	MANAGEMENT INFORMATION SYSTEMS FOR HEALTH CARE PROFESSIONALS (2) Introduces the student to database applications and records management. It will include concepts and techniques for the systematic creation, storage, reproduction, distribution, and retention of records with emphasis on hands-on application of relational database management software, especially Microsoft Access for both desktop and CE versions for the handheld PC. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6517	CLINICAL TOXICOLOGY (2) Designed to expand on required courses in clinical toxicology including the diagnosis and treatment of common poisonings. Emphasis will be given to the basic concepts of patient-oriented toxicology. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6518	GERIATRIC PHARMACOTHERAPY (2) Reviews and expands on the physical changes that happen as aging occurs that may lead to different therapy choices in the elderly population as compared to younger adults. Emphasis on disease states and clinical situations more commonly seen in the elderly population such as osteoporosis, Parkinson's disease, Alzheimer's disease, etc. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6519	ADVANCED TOPICS IN WOMEN'S HEALTH (2) Designed to build upon the student's basic knowledge of reproductive physiology. Explores the uniqueness of the female gender on the physiology of normal function, pathophysiology and treatment of dysfunction. Integrates various areas of basic science	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	(physiology, pharmacology, pathology, etc.) with clinical sciences. Prerequisites: Admission into the Doctor of Pharmacy Program.		
PHAR 6520	PHARMACY-BASED HEALTH SCREENINGS (2) Prepares participants to develop health-screening programs in a variety of pharmacy practice settings. The focus is risk factor assessment and hands-on experience with technological devices related to cancer, cardiovascular disease (blood pressure and cholesterol), diabetes, and osteoporosis. Also addresses OSHA training, CLIA regulations, policies and procedures, and implementation of screening programs. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	4

PHAR 6521	ELEMENTS OF SUPERVISION (2) Offers skills development in the supervision of employees (technicians, clerks, and other subordinates) through readings, written assignments and classroom seminar activities. Material will also be reviewed that provides tools for "managing the boss." Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6522	NATURAL PRODUCTS AND DRUG DISCOVERY (2) Designed to expand on knowledge of natural products and their impact in discovery of lead compounds in drug discovery and development. Focus on isolation, purification, preclinical testing, and early clinical testing of past and current clinical candidates. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6523	ADVANCED TOPICS IN MEDICINAL CHEMISTRY (2) Expands on medicinal chemistry topics presented in the required curriculum. Emphasis on recent advances and applications. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6524	ADVANCED TOPICS IN PHARMACOLOGY (2) Expands on pharmacology topics presented in the required curriculum. Emphasis on recent advances and applications. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2
PHAR 6525	ADVANCED TOPICS IN SOCIAL AND ADMINISTRATIVE SCIENCES (2) Expands on pharmacy administration topics presented in the required curriculum. Emphasis on recent advances and applications. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
PHAR 6526	HISTORY OF PHARMACY (2) Provides opportunity to explore the historical development of the pharmacy profession. Emphasis on significant changes to profession in the United States. Prerequisites: Admission into the Doctor of Pharmacy Program.	2	2

PHAR 6527	POLICY & ADVOCACY (1) This course is designed to familiarize the student with the process of crafting and evaluating health care policy, building upon concepts learned in Professional Practice II. The students will hear policy perspectives from legislators, lobbyists and representatives of professional organizations, and will learn to identify issues of concern to the profession, build position papers and legislative agendas, lobby for legislation supporting the profession and evaluate potential outcomes of health care policies. Prerequisites: PHAR 6122	1	1
PHAR 6528	COMMUNITY EDUCATION PROGRAMS (2) During this course, students will develop, implement, and assess a culturally-appropriate community education program for South Suburban Chicago. They will conduct focus group interviews to determine the health-and medication-related topics of interest of community members; develop active learning sessions that will foster audience participation and understanding of concepts; formulate a marketing strategy to encourage attendance; provide the sessions at various locations including health centers, village halls, park district facilities, senior centers, churches, and schools; and measure the impact of the program.	2	2
PHAR 6529	TOPICS IN HOSPITAL PHARMACY PRACTICE (2) Intended to give students a broader overview of topics that are more specific to hospital pharmacy practice. The course involves some introductory lecture, then discussion, a group student investigative project, and student presentations on their findings. Prerequisites: PHAR 6223	2	2
PHAR 6530	HOME INFUSION THERAPY (1) This course is designed for the student to obtain in-depth knowledge about home health services and the pharmacist's role in home infusion therapy. Students will learn through lectures and discussions about services that are available through home health agencies, the health care professionals involved in home health, and how home infusion therapy is provided, monitored and regulated.	1	1
PHAR 6531	ADVANCED LITERATURE EVALUATION (1) Designed to familiarize students with study designs and statistical concepts commonly used to develop, select, deliver and evaluate patient-centered pharmacy services in medical literature. This course will allow students to improve their ability to interpret,	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>assess, and communicate important elements and findings of studies/trials in the discussion format.</p> <p>Prerequisites: PHAR 6222</p>		
PHAR 6532	<p>CHEMISTRY AND BIOCHEMISTRY OF NATURAL PRODUCTS (2)</p> <p>Discussion of natural products and herbal supplements, commonly used as drugs or are currently in development. Topics include the biosynthesis and biological activities of compounds isolated from plants, animal, and microbial sources.</p>	2	2
PHAR 6533	<p>SELF-CARE COUNSELING & THERAPEUTICS (2)</p> <p>Designed to teach pharmacy students self-care, defined as, "the action individuals take for themselves and their families to stay healthy and manage minor and chronic conditions based on their knowledge and the information available." The purpose is to augment knowledge of over-the-counter medications and self-care.</p> <p>Prerequisites: PHAR 6225</p>	2	2
PHAR 6534	<p>CARE OF THE GERIATRIC PATIENT (2)</p> <p>Introduces and reinforces general principles pertaining to the care of the geriatric patient. The goal is to enhance the student pharmacist's competence in caring for older adults. Topics will focus on the physiological, psychological, physical, ethical, social, economic and therapeutic issues of aging. Each lecture incorporates topics and activities pertinent to providing patient-centered care in the older adult population. Instruction is provided through lecture, small group discussion, role-play, hands-on skill building activities, and actual patient care assignments.</p>	2	2
PHAR 6535	<p>HEALTH PROMOTION INITIATIVES: DESIGN & ASSESSMENT (2)</p> <p>Focuses on the design, implementation and evaluation of a health promotion initiative. Students will be trained to evaluate the need, progress, outcome, and efficiency of a health promotion intervention. In this course, students will assess the needs of an intervention program, implement the intervention and evaluate the effect of the intervention.</p> <p>Prerequisites: PHAR 6122</p>	2	2
PHAR 6536	<p>CONVERSATIONAL SPANISH FOR PHARMACISTS (2)</p> <p>Intended for the student with a strong background in Spanish seeking to improve their conversational speaking and cultural competency skills related to interviewing and counseling Spanish speaking patients. The course incorporates a self study component to review grammar and medical words and phrases in Spanish. In-class activities include role playing, mock interviews, and case study discussions.</p> <p>Prerequisites: Consent of Instructor.</p>	2	2
PHAR 6537	<p>CURRENT TOPICS IN INFECTIOUS DISEASES (2)</p>	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>A discussion-based course. Current topics in infectious diseases will be discussed as deemed useful for the pharmacy student. Topics include currently relevant bacterial, viral, fungal and parasitic diseases.</p> <p>Prerequisites: PHAR 6110, PHAR 6115</p>		
PHAR 6538	<p>PERSONALIZED MEDICINE (2)</p> <p>This course is designed to enhance the student's knowledge of pharmacogenomics. Current and potential future applications of pharmacogenomics to pharmacotherapeutics will be explored. Design of personalized drug therapies will be explored through patient cases. The role of the pharmacist in personalized medicine will be emphasized.</p> <p>Prerequisites: Third professional year standing or consent of instructor.</p>	2	2
PHAR 6539	<p>DRUG INDUCED DISEASE (2)</p> <p>This course will explore unwanted drug effects and the mechanisms by which they cause disease. In addition to the pathophysiology of the adverse effects, this course will address potential strategies to manage the unwanted effects.</p> <p>Prerequisites: Third professional year standing or consent of instructor.</p>	2	2
PHAR 6540	<p>CRITICAL CARE PHARMACOTHERAPY (2)</p> <p>This course will expand on the student's knowledge of critical care pharmacotherapy. The course will explore the pathophysiology of specific critical care topics as well as potential therapies. The course will utilize patient cases to allow development of care plans for critically ill patients.</p> <p>Prerequisites: Third professional year standing or consent of instructor.</p>	2	2
PHAR 6541	<p>HOSPITAL MEDICINE (2)</p> <p>This course encompasses the transition and evokes the vision that all hospital pharmacy practitioners evolve into specialists through continuous exposure and experience with specific patient populations. This course will familiarize the student with complications of both common and uncommon disease states. The primary objective is to focus on the treatment rationale and pharmacotherapy of disease states commonly seen at an urban academic medical center.</p> <p>Prerequisites: Third Professional Year standing or consent of instructor.</p>	2	2

PHAR 6542	ADVANCED DRUG DELIVERY SYSTEMS (2) This course is designed to provide an in-depth coverage of the various novel/advanced dosage forms and drug delivery systems. Methods used to formulate, manufacture, and test various dosage forms and delivery systems will be addressed. Supplemental	2	2
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Course	Course Description	Credit Hrs.	Contact Hrs.
	laboratory sessions will be devoted to formulation and evaluation of advanced drug delivery systems. Prerequisites: Second Professional Year standing or consent of instructor.		
PHAR 6543	PEDIATRIC PHARMACOTHERAPY (2) This elective course will focus on the pharmacotherapeutics and pathophysiology of more common pediatric disorders in both acute and ambulatory care settings. This course will explore the relevant differences between the adult and pediatric population regarding diagnosis, treatment options, desired therapeutic outcomes and therapeutic drug monitoring parameters. It is intended to supplement the pediatric concepts in the core curriculum. Instruction will be a combination of lectures, case discussions, homework assignments, and interactive learning. Prerequisites: Third Professional Year Standing.	2	2
PHAR 6544	MANAGEMENT OF DEGENERATIVE BRAIN DISORDERS (2) This course will emphasize the complex problems faced by healthcare providers, caregivers, and patients when addressing degenerative brain disorders. The topics will include: differential diagnosis, assessment tools and rating scales, treatment options, management of major symptoms and complications, and treatment management/adjustment. Diseases to be covered include: Alzheimer's disease, dementia with Lewy bodies, frontotemporal and cerebrovascular dementia, Parkinson's disease, multiple system atrophy, progressive supranuclear palsy, prion diseases, Huntington's disease, and amyotrophic lateral sclerosis. Prerequisites: Third Professional Year Standing.	2	2

PHAR 6545	<p>NEW CONCEPTS IN DIABETES MANAGEMENT (2)</p> <p>The course includes didactic lectures, active learning opportunities, group discussion sessions, research presentations, and patient cases to apply selected principles and skills to examine the current issues involved in managing diabetes mellitus in persons over their life span. Throughout the course, students will be involved in various activities to increase their appreciation of the complexity of managing the disease. Students will have the opportunity to: live vicariously through the lives of the characters in the Telenovela "Sugarland," observe diabetes support groups and educational programs held in the Chicago land area, survey an online diabetes community, and present a group assignment during the "Diabetes Fair Day" at CSU-COP.</p> <p>Prerequisite: PHAR 6234</p>	2	2
PHAR 6546	<p>PAIN MANAGEMENT (2)</p> <p>This course is designed to advance student pharmacists' practical knowledge of principles of management and pharmacotherapy of most prevalent pain conditions. After completion of course the students will better understand the current guidelines for pain management, management of pain with opioid analgesics, management of adverse</p>	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	effects of analgesics, and counseling/management of patients undergoing pain pharmacotherapy.		
PHAR 6547	<p>THE PSYCHOLOGY OF HEALTHCARE (2)</p> <p>This course will discuss principles of Industrial/Organizational Psychology and Organizational Behavior and its applicability to the business/healthcare setting. The course concepts will also increase awareness/presentation of professional decorum and business knowledge of Pharmacists.</p>	2	2
PHAR 6548	<p>ADVANCED TOPICS IN HIV/AIDS (2)</p> <p>This course emphasizes the need to treat and manage the HIV/AIDS patient and the role of Pharmacist in providing proper pharmaceutical care. Patients living with HIV/AIDS face many challenges, including complex treatment regimens, socioeconomic barriers and access to care. Many of these patients have very complex medical management due to high rates of comorbidities, including unique opportunistic infections, and effects of patient-specific variables. This course addresses all of these topics from the pharmacist's perspective.</p>	2	2
PHAR 6549	<p>COMMUNITY PHARMACY OWNERSHIP (2)</p> <p>A two credit-hour elective course presenting the considerations for independent community pharmacy ownership. Format: Formal presentations of topics, with time provided for in-class discussion on assigned topics.</p>	2	30

PHAR 6550	ADVANCED PRACTICES IN ANTICOAGULATION MANAGEMENT (2) This course focuses on anticoagulation management in both the inpatient and outpatient settings. It is designed to expand the students' knowledge of both common and uncommon disease states that require anticoagulation, significance and applicability of hypercoagulable testing, initiation and management of various anticoagulants in both acute inpatient and outpatient settings as well as patient transition from inpatient to outpatient. Prerequisite(s): All P1 and P2 courses.	2	2
PHAR 6551	INTRODUCTION TO PHARMACOGENOMICS (2) Introduction to the pharmacogenomics basics, including the foundation of genetics, variations in drug metabolism enzymes as well as the applications of pharmacogenomics to pharmacy practice. Prerequisite(s): First Year Pharmacy.	2	2
PHAR 6552	MEDITATION & MINDFULNESS FOR THE PHARMACY STUDENT (2) Following the Koru Mindfulness curriculum, this course will introduce students to mindfulness and specific meditative practices / strategies that can be used to decrease stress and improve overall well-being. Students will also be required to attend a four	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	hour retreat (practicum) in which students will apply strategies learned in the classroom while completing team-based activities focused on enhancing self-confidence, self-esteem, trust, and communication. Prerequisite(s): First Year Pharmacy.		
PHAR 6553	PREPARATION FOR POST-GRADUATE RESIDENCY TRAINING (2) This course will provide students with a greater understanding of post-graduate residency and fellowship training. Students will learn about daily activities performed during postgraduate training as well as the expectations of pharmacy residents and fellows. Topics discussed in this course will provide students with the necessary to demonstrate effective interviewing skills and create an effective letter of intent and curriculum vitae. After completing this course, students will be able to identify steps to take during their fourth professional year to improve the likelihood of obtaining a post-graduate residency or fellowship. Prerequisite(s): Completion of all P1 and/or P2 courses; P3 in good academic standing.	2	2

PHAR 6601	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 1 (1-12) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the first professional year. The independent course of study and the credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisite: Permission of the Dean of the College of Pharmacy	1	1
PHAR 6602	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 2 (1-12) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the second professional year. The independent course of study and the credit hours are determined by the COP-ASC based on the subject being remediated. Prerequisite: Permission of the Dean of the College of Pharmacy	1	1
PHAR 6603	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 3 (1-12) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the third professional year. The independent course of study and the credit hours are determined by the COP-ASC based on the subject being remediated. Prerequisite: Permission of the Dean of the College of Pharmacy	1	1
PHAR 6611	SPECIAL TOPICS I FOR PHARMACY PROFESSIONAL YEAR 1 (1-12) Part I of a required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the first professional year.	1	

Course	Course Description	Credit Hrs.	Contact Hrs.
	The independent course of study and the credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisite: Consent of the dean of the College of Pharmacy.		
PHAR 6612	SPECIAL TOPICS II FOR PHARMACY PROFESSIONAL YEAR 1 (1-12) Part II of a required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the first professional year. The independent course of study and the credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisite: Consent of the dean of the College of Pharmacy.	1	

PHAR 6621	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 2 (1-8) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the Second Professional Year. The independent course of study and the credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisite: Permission of the Dean of the College of Pharmacy	1	
PHAR 6622	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 2 (1-8) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the Second Professional Year. The independent course of study and the credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisite: Permission of the Dean of the College of Pharmacy	1	
PHAR 6631	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 3 (1-5) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the Third Professional Year. The independent course of study and the Credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisites: Permission of the Dean of the College of Pharmacy.	1	1
PHAR 6632	SPECIAL TOPICS FOR PHARMACY PROFESSIONAL YEAR 3 (1-5) A required course for students placed on academic probation by the College of Pharmacy Academic Standing Committee (COP-ASC) during the Third Professional Year. The independent course of study and the Credit hours of enrollment are determined by the COP-ASC based on the subject being remediated. Prerequisites: Permission of the Dean of the College of Pharmacy.	1	1

Philosophy (PHIL)

Course	Course Description	Credit Hrs.	Contact Hrs.
PHIL 1010	INTRODUCTION TO PHILOSOPHY (3) The nature and functions of philosophic inquiry and thinking including the major branches of philosophy: metaphysics, epistemology, and ethics. (General Education Humanities course) IAI: H4 900	3	3

PHIL 1020	INTRODUCTION TO LOGIC (3) Formal training in deductive reasoning including informal logic, Aristotelian, and modern symbolic logic. (General Education Humanities and Critical Thinking course.) IAI: H4 906	3	3
PHIL 1030	CRITICAL THINKING (3) Practical training in the principles of reasoning including the analysis, construction and criticism of arguments and the identification of fallacies in natural language. (General Education Humanities and Critical Thinking course.)	3	3
PHIL 1040	ETHICS (3) An examination of contemporary moral problems using ethical theory. (General Education Humanities and Writing emphasis course.) IAI: 114 904	3	3
PHIL 1200	SPECIAL TOPICS IN PHILOSOPHY (3) The study of a selected topic in philosophy which may be repeated once under a different title.	3	3
PHIL 2040	CONTEMPORARY PHILOSOPHY (3) An introduction to twentieth century philosophic thinking including idealism, pragmatism, analytic philosophy, existentialism, and phenomenology. Prerequisite: PHIL 1010/101 or consent of the department.	3	3
PHIL 2210	PHILOSOPHY OF HUMAN NATURE (3) A study of classical and contemporary views on human nature including the mind/body problem, personal identity and human freedom. Prerequisite: One course in Philosophy.	3	3
PHIL 2220	UTOPIA (3) An analysis of the visionary dreams of leading Utopian thinkers.	3	3
PHIL 2250	INTRODUCTION TO SOCIAL AND POLITICAL PHILOSOPHY (3) An analysis of various concepts and issues such as individual and collective interest, justice, equality, democracy and freedom.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PHIL 2500	HEALTH CARE ETHICS (3) An examination of ethical principles applied to selected moral issues concerning the health care profession. (Cross-listed with NURS 2250 and H SC 2250: Health Care Ethics.)	3	3

PHIL 2510	ENVIRONMENTAL ETHICS (3) Ethical issues involved in understanding the environment broadly as a social, cultural as well as a physical and biological phenomenon. Topics addressed include environmental justice, the question of sustainability, and the philosophical foundations of the environmental movement.	3	3
PHIL 2520	BUSINESS ETHICS (3) A moral audit of business practices by applying relevant ethical principles to case studies. The emphasis throughout is on the discernment and analysis of the moral dimensions and implications of corporate conduct toward the employee, the consumer, and the society. (General Education Humanities course)	3	3
PHIL 2530	COMPUTER ETHICS (3) Examination of the ethical issues involved in computerized technologies such as professional responsibility, privacy, security, hacking, network use, individual use, and other social values are addressed, including the IEEE and ACM Code of Ethics.	3	3
PHIL 2540	PHILOSOPHY AND THE CITY (3) Philosophical analysis of urbanization and the formation of values in an urban context.	3	3
PHIL 2700	THE SCIENTIFIC WORLD OUTLOOK (3) An introduction to the philosophy of science and the study of scientific reasoning concentrating on major scientific theories such as the origins of the universe, history of earth and history of life.	3	3
PHIL 2710	PHILOSOPHICAL ISSUES OF RACE AND SOCIETY (3) An analysis of issues in social, political, and moral philosophy occasioned by the rise of racial identities and racial inequality. (General Education Humanities and Diversity course.)	3	3
PHIL 2720	AFRICAN AMERICAN PHILOSOPHICAL PERSPECTIVES (3) An examination of African American philosophical thought. (A writing emphasis course.) Prerequisite: One course in Philosophy or consent of department.	3	3
PHIL 2750	PHILOSOPHY AND WOMEN (3) Philosophical issues in the history of philosophy as these concern women including	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>questions such as identity, gender and sexual difference from a nonrepresentational framework.</p> <p>Prerequisite: One course in Philosophy or consent of department.</p>		
PHIL 2760	<p>PHILOSOPHY OF LAW (3)</p> <p>An analysis of the nature and function of the common law system and some of its basic concepts, such as legal liability, legal responsibility, legal reasoning, causation, and theories of punishment.</p>	3	3
PHIL 2770	<p>PHILOSOPHY IN LITERATURE (3)</p> <p>A philosophical analysis and examination of novels, plays, poetry, or essays for philosophic content.</p> <p>Prerequisite(s): Successful completion of the English Qualifying Exam and one course in philosophy or consent of the department.</p>	3	3
PHIL 2790	<p>EXISTENTIALISM (3)</p> <p>Analysis of the existential perspective found in the writings of Dostoyevsky, Kierkegaard, Nietzsche, Kafka, Sartre, Camus and others.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3000	<p>HISTORY OF GREEK PHILOSOPHY (3)</p> <p>Development of philosophic thought from about 640 B.C. to 332 B.C., covering the preSocratics, Socrates, Plato and Aristotle.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3010	<p>READING AND WRITING PHILOSOPHY (3)</p> <p>Intensive reading of classical philosophical texts, written exposition and criticism of philosophical argument and development of original argument.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3020	<p>HISTORY OF MODERN PHILOSOPHY (3)</p> <p>Philosophical trends of the 17th and 18th centuries from Bacon to Kant.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3040	<p>ETHICAL THEORY (3)</p> <p>An examination of ethical theories and principles including utilitarianism and deontological theories as well as contemporary approaches to ethical issues.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): One course in philosophy or consent of the department.		
PHIL 3100	<p>PRE-SOCRATIC PHILOSOPHY (3)</p> <p>A study of selected thinkers and issues from the Pre-Socratic period.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3130	<p>MEDIEVAL PHILOSOPHY (3)</p> <p>A study of thinkers and issues from the medieval period from the 5th through the 14th Centuries.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3140	<p>EARLY MODERN PHILOSOPHY (3)</p> <p>A study of selected 17th century thinkers and issues in the context of the rise of modern science.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3150	<p>18TH CENTURY PHILOSOPHY (3)</p> <p>A study of selected thinkers and issues from the European Enlightenment.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3160	<p>19TH CENTURY PHILOSOPHY (3)</p> <p>A study of selected thinkers and issues including the rise of German idealism in response to Kant.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3170	<p>20TH CENTURY PHILOSOPHY (3)</p> <p>A study of selected thinkers and issues from the 20th Century.</p> <p>Prerequisite(s): One course in philosophy or consent of the department.</p>	3	3
PHIL 3190	<p>PHILOSOPHICAL FIGURE/TEXT (3)</p> <p>A study of the work of one important philosopher or philosophical movement. May be repeated once for a maximum of 3 credit hours under different topics.</p> <p>Prerequisite(s): One course in philosophy or consent of department.</p>	3	3

PHIL 3229	SYMBOLIC LOGIC (3) Propositional and predicate logic with identity emphasizing formalization in natural language and decision methods for valid arguments.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): PHIL 1020/204, 1030/221 or consent of the department.		
PHIL 3290	PHILOSOPHY OF LANGUAGE (3) An examination of the nature of language, meaning, and truth. Prerequisite(s): One course in philosophy or consent of the department.	3	3
PHIL 3400	AESTHETICS (3) A study of the nature, theories, and experience of art and aesthetic values. Prerequisite(s): One course in philosophy or consent of the department.	3	3
PHIL 3500	RESEARCH ETHICS (2) Ethical considerations involving research with human subjects including the issues of privacy and informed consent, standards for ethical research such as the Belmont Report, the function of an IRB, and various federal regulations. This course fulfills NIH certification for human subject research. Prerequisite: Junior standing.	2	2
PHIL 3510	METAPHYSICS (3) A study of the nature of reality. Topics include causation, freedom and determinism, and the mind-body problem. Prerequisite(s): One course in philosophy or consent of the department.	3	3
PHIL 3520	THEORY OF KNOWLEDGE (3) Inquiry into the origin, nature, certainty, and limits of human knowledge as examined through the positions of the world's leading thinkers in the field. Prerequisites: One course in philosophy or consent of department.	3	3

PHIL 3730	COMPARATIVE RELIGION (3) An examination and comparative exposition of the doctrinal issues affecting the world's major religions with an emphasis on non-western religions. IAI: H5 904N	3	3
PHIL 3740	PHILOSOPHY OF RELIGION (3) Analysis of the ecumenical questions of traditional theistic religions: warrant for the belief in God, the problem of evil, the intelligibility of the traditional attributes of God, and the warrant for religious experiences. IAI: H4 905	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PHIL 3900	INDEPENDENT STUDY IN PHILOSOPHY (3) Staff-directed study in special topics. Prerequisite: Consent of the department.	3	3

Physics (PHYS)

Course	Course Description	Credit Hrs.	Contact Hrs.
PHYS 1000	PHYSICS CALCULATIONS LECTURE AND DISCUSSION /2 (1) Problem solving skills for a first course in general physics. Prerequisite: Concurrent enrollment in PHYS 1510/151 or PHYS 211/2110.	1	2
PHYS 1010	PRACTICAL SKILLS FOR SUCCESS IN SCIENCE (1) Time management, goal setting, test taking strategies, electronic communication, understanding academic and career options, campus resources and policies, history and traditions of CSU, and use of effective oral and written language skills. Credit will not be given for both PHYS 1010 and CHEM 1010 or CSU 0900. Prerequisite: Entering freshman science student or sophomore transfer science student.	1	1
PHYS 1020	FRESHMAN SKILLS TUTORIAL II LECTURE AND LABORATORY /2 (1) Continuation of PHYS 1010/101. Prerequisite: PHYS 1010/101.	1	2
PHYS 1092	ILLINOIS PHYSICS TEACHER CERTIFICATION REVIEW (1) Review of topics in preparation for the state certification test in science. May not be counted for degree credit. Pass or fail awarded. Prerequisite: PHYS 3110/311 and concurrent enrollment in PHYS 4630/363.	1	1
PHYS 1510	GENERAL PHYSICS I LECTURE AND LABORATORY /7 (4) Foundations of physics without calculus. Kinematics, mechanics, thermodynamics, properties of solids, liquids and gases. Additional course fee. IAI: P1 901 P1 900L BIO 903. Prerequisite: MATH 1250/171; or co-requisite: MATH 1210/163.	4	7
PHYS 1520	GENERAL PHYSICS II LECTURE AND LABORATORY /7 (4) Continuation of PHYS 151. Simple harmonic motion, waves and sound, electromagnetism, elementary DC and AC circuits, elementary optics, atomic structure and spectra. Additional course fee. IAI: BIO 904. Prerequisite: PHYS 1510/ 151.	4	7

PHYS 1600	Introduction to Physics Professions (1) Survey of career opportunities for physicists in industry, government, and education. A review of the skills, training, and education required for the various occupations. May not be used for general education.	1	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
PHYS 2100	THESIS RESEARCH I (1-3) Individually supervised study of selected topics. Prerequisite(s): Consent of department.	1	1
PHYS 2110	GENERAL PHYSICS I WITH CALCULUS: MECHANICS LECTURE AND LABORATORY /7 (4) Foundation of physics using calculus as a tool. Kinematics, Newton's laws of motion, energy and momentum conservation, wave motion. Additional course fee. IAI: EGR 911 P2 900L MTH 921. Co-requisite: MATH 1410/261.	4	7
PHYS 2220	GENERAL PHYSICS II WITH CALCULUS: ELECTROMAGNETISM AND OPTICS /7 (4) Continuation of PHYS 2110/211. Electrostatics, electrical circuits, magnetism Maxwell's equations, geometrical optics. Credit will not be given for both 2220/222 and 2120/212. Students who have had 2120/212 before 2220/222 replaced it should take 2160/216 before 2330/233 (which replaces 2130/213). Additional course fee. IAI: EGR 912. Prerequisite(s): PHYS 2110/211 and ENG 1230/123 or 1270/127 Co-requisite(s): MATH 1420/262	4	7
PHYS 2250	THERMODYNAMICS AND INSTRUMENTAL OPTICS /2 (1) Laws of thermodynamics, fundamentals of geometrical and physical optics with application to analytical instruments. Credit will not be given for both PHYS 2330/233 and 2250/225. Additional course fee. Prerequisites: PHYS 2220/222	1	2

PHYS 2330	GENERAL PHYSICS III WITH CALCULUS: THERMODYNAMICS, OPTICS AND MODERN PHYSICS /7 (4) Waves, laws of thermodynamics, physical optics, relativity, atomic and nuclear physics. Credit will not be given for both PHYS 2330/233 and PHYS 2250/225. Credit will not be given for both PHYS 2330/233 and PHYS 2130/213. Additional course fee. IAI: EGR 914. Corequisites: PHYS 2220/222	4	7
PHYS 2700	ELECTRONICS I LECTURE AND LABORATORY /6 (3) Introduction to semiconductor circuits. Discrete circuits: transistors, field effect transistors, metal oxide semiconductors, and complementary metal oxide semiconductors, devices. Amplifiers, oscillators. Writing Emphasis Course. Additional course fee.	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: PHYS 2220/222.		
PHYS 2710	ELECTRONICS II LECTURE AND LABORATORY /6 (3) Introduction to integrated circuits. Amplifiers, operational amplifiers, and digital circuits. Additional course fee. Prerequisite: PHYS 2700/270.	3	6
PHYS 3110	CLASSICAL MECHANICS I (3) Newton's laws, oscillators, gravitation, Lagrangian and Hamiltonian methods, central force motion. Prerequisite: PHYS 2330/233.	3	3
PHYS 3115	HONORS CLASSICAL MECHANICS I (3) Newton's laws, oscillators, gravitation, Lagrangian and Hamiltonian methods, central force motion. Literature analysis required. Credit not given for both PHYS 3115 and 3110. PREREQUISITES: PHYS 2330/233; consent of the department.	3	3
PHYS 3150	ELECTRICITY AND MAGNETISM I (3) Electric fields, magnetic fields, Faradays's Laws, Maxwell's equations. Prerequisite: PHYS 2330/233.	3	3

PHYS 3155	HONORS ELECTRICITY AND MAGNETISM I (3) Electric fields, magnetic fields, Faraday's laws, Maxwell's equations. Literature analysis required. Credit not given for both PHYS 3155 and PHYS 3150. PREREQUISITES: PHYS 2330/233; consent of the department.	3	3
PHYS 3210	THERMODYNAMICS (3) Foundations of thermodynamics. Kinetic theory, laws of thermodynamics, heat engines, entropy, thermodynamic potential, Maxwell's relations. Prerequisite: PHYS 2330/233	3	3
PHYS 3220	STATISTICAL MECHANICS (3) Classical and quantum mechanical statistical mechanics including micro-canonical, canonical, and grand canonical ensembles and applications. Prerequisite: PHYS 3210/321.	3	3
PHYS 3250	INTRODUCTION TO QUANTUM MECHANICS I (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Successful completion of the English qualifying examination. Schroedinger's equation with applications to simple systems in one and three dimensions. Angular momentum and hydrogen atom. Prerequisite: PHYS 3110/311 and PHYS 2800/280.		
PHYS 3255	HONORS QUANTUM MECHANICS I (3) Schroedinger's equation with applications to simple systems in one and three dimensions, angular momentum and the hydrogen atom. Literature analysis required. Credit not given for both PHYS 3255 and PHYS 3250. PREREQUISITES: PHYS 3110/311 or PHYS 3115; consent of the department.	3	3
PHYS 3300	FUEL CELL TECHNOLOGY (4) Language and basics of a functional fuel cell; theory, principles, history, components, material properties and processes of different fuel cells. Prerequisites: CHEM 1560/156 and PHYS 2250/225; or PHYS 2330/233.	4	6

PHYS 3450	MATHEMATICAL METHODS OF PHYSICS I (3) Coordinate systems, vector analysis, boundary value problems, matrices and tensors, complex variable. Credit not given for both PHYS 3450/345 and MATH 3510. Prerequisite(s): PHYS 2330/233 and MATH 2550/271.	3	3
PHYS 3460	MATHEMATICAL METHODS OF PHYSICS II (3) Special functions, Fourier analysis, Green's functions, Calculus of Variations, Non Linear methods and Chaos, Probability. Study of applications of mathematics to physics. Credit not given for both PHYS 3460 and MATH 3520. Prerequisite(s): PHYS 3450/345 or MATH 3510.	3	3
PHYS 3500	TEACHER IMMERSION INSTITUTE: PHYSICS (2) Work with practicing high school teachers and learn to develop instructional materials and assessment tools for use in the physics classroom. Implement these materials in a classroom setting and reflect on student understanding. Course may be repeated for a maximum of four hours. Prerequisite: Consent of Department.	2	2
PHYS 3610	SIGNALS AND SYSTEMS (3) Presents the fundamentals of signal and system analysis. Topics include discrete-time and continuous-time signals, Fourier series and transforms, Laplace and Z transforms, and analysis of linear, time-invariant systems.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: PHYS 2700/270 and MATH 2430/263.		
PHYS 4010	SENIOR SEMINAR I LECTURE AND LABORATORY /2 (1) Presentations by students, faculty & invited speakers on new developments in physics; research reports in the literature; preparation for graduate school, teaching, and industrial research/jobs.	1	2
PHYS 4020	SENIOR SEMINAR II LECTURE AND LABORATORY /2 (1) Continuation of PHYS 4010/301.	0	2

PHYS 4120	CLASSICAL MECHANICS II (3) Continuation of Physics 3110/311. Coupled oscillators, waves, systems of particles, noninertial reference frames, rigid bodies, fluid mechanics. Prerequisite: PHYS 3110/311	3	3
PHYS 4160	ELECTRICITY AND MAGNETISM II (3) Relativity applied to electromagnetic fields, radiation, applications. Prerequisite: PHYS 3150/315	3	3
PHYS 4260	ADVANCED QUANTUM MECHANICS (3) Spin, angular momentum, Clebsch-Gordan series, perturbation theory, scattering, applications. Prerequisite: PHYS 3250/325.	3	3
PHYS 4500	TEACHING INQUIRY-BASED PHYSICS /3 (2) Practicum in teaching physics as a process of inquiry. Focus on the underlying physics concepts. Assist the instructor in the introductory physics classroom. Weekly readings from state and national standards as well as from research in science education. Prerequisite: PHYS 2330/233	2	3
PHYS 4550	EXPERIMENTAL PHYSICS APPARATUS IMPLEMENTATION /7 (3) The set up, debugging, and implementation of apparatus for major demonstrations and laboratories for excellent high school physics programs. Creation of experimental notebooks describing principles and operating configurations for successful pedagogy. Some classic experiments. Additional course fee.	3	7

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): PHYS 3110/311, 3150/315, and 4500/350.		
PHYS 4630	METHODS OF TEACHING PHYSICS AND PHYSICAL SCIENCE IN SECONDARY SCHOOLS /FIELD (3) Methods of teaching physics and physical science in high school grades 9-12 and middle school grades 6-8. Fifty hours of tutoring middle grade and high school grade students. Prerequisite: Admission to the College of Education; ELCF 4500/353 and READ 4100/306 (or concurrent enrollment in ELCF 4500/353 and READ 4100/306); co-requisite: PHYS 0920/092 and CAS 3630/363.	3	3

PHYS 4700	ELECTRONICS III LECTURE AND LABORATORY /6 (3) Introduction to microprocessor interfacing. Additional course fee. Prerequisite: PHYS 2710/271	3	6
PHYS 4710	READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY, AND PRACTICE (1) Readings and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. May be repeated for up to 3 credit hours. Prerequisite: Consent of the department.	1	1
PHYS 4720	INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED PHYSICS (3) Variety of physics topics and activities appropriate for implementing in the high school classroom. Pedagogical implications of inquiry-based instructional materials and use of modern equipment in the classroom. Prerequisite: Consent of the department.	3	3
PHYS 4730	PEDAGOGICAL CONTENT KNOWLEDGE IN SCIENCE: PHYSICS (6) Foundations of physics with emphasis on pedagogical content knowledge. Kinematics, Newton's laws of motion, energy and momentum conservation, wave motion. Action research project is required. Additional course fee. IAI: EGR 911 P2 900L MTH 921. Prerequisite: Consent of the department. Co-requisite: MATH 2410/261	6	6
PHYS 4750	STUDENT TEACHING: SECONDARY LEVEL PHYSICS /FIELD (6) Completion of all other coursework in the approved program; a 2.5 grade point average in professional education, and in al coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five	6	6

Course	Course Description	Credit Hrs.	Contact Hrs.
	years. Off-campus placement in secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Satisfies university thesis requirement. Prerequisite: Admission to College of Education; PHYS 0920/092 and 4630/363;		

PHYS 4850	ADVANCED UNDERGRADUATE LABORATORY I LECTURE AND LABORATORY /6 (3) Selected experiments in optics and nuclear and modern physics; emphasis on laboratory technique and scientific report writing. Writing Emphasis Course. Additional course fee. Prerequisite(s): PHYS 2330/233 and ENG 1230/123 or 1270/127.	3	6
PHYS 4860	ADVANCED UNDERGRADUATE LABORATORY II LECTURE AND LABORATORY /6 (3) Continuation of PHYS 4850/385. Additional course fee. Prerequisite: PHYS 4850/385	3	6
PHYS 4900	THESIS RESEARCH II (1-6) Laboratory or theoretical investigation performed under faculty advisement. Course may be repeated under different topics for a maximum of six hours. Prerequisite(s): Consent of department.	1	1
PHYS 4905	SENIOR THESIS (3) Laboratory or theoretical investigation performed under faculty advisement. Course may be repeated for a maximum of six (6) credit hours. Prerequisite: Consent of the department and ENG 1240/124 or 1280/128.	3	3
PHYS 4980	SELECTED TOPICS IN PHYSICS (1-9) Topics of current interest in physics. Course may be repeated under different topics for a maximum of six hours. Prerequisite: Consent of the department.	1	1
PHYS 5120	CLASSICAL MECHANICS (3) Newton's Laws, oscillators, gravitation, Lagrangian and Hamiltonian methods, central force motion. Prerequisite: PHYS 2130/213	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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PHYS 5710	<p>READINGS IN SCIENCE EDUCATION: RESEARCH, THEORY, AND PRACTICE (1)</p> <p>Readings and discussion of contemporary and historic work in science education with an emphasis on how scholarly work can promote effective instruction. May be repeated for up to 3 credit hours.</p> <p>Prerequisites: Consent of the department.</p>	1	1
PHYS 5720	<p>INQUIRY INSTRUCTION IN THE HIGH SCHOOL CLASSROOM: ACTIVITY-BASED PHYSICS (3)</p> <p>Variety of physics topics and activities appropriate for implementing in the high school classroom. Pedagogical implications of inquiry-based instructional materials and use of modern equipment in the classroom. Course may be repeated for a maximum of nine hours.</p> <p>Prerequisite: Consent of the department.</p>	3	3
PHYS 5730	<p>PEDAGOGICAL CONTENT KNOWLEDGE IN SCIENCE: PHYSICS (6)</p> <p>Foundations of physics with emphasis on pedagogical content knowledge. Kinematics, Newton's laws of motion, energy and momentum conservation, wave motion. Action research project is required. Additional course fee. IAI: EGR 911 P2 900L MTH 921.</p> <p>Prerequisites: Consent of the department. Co-requisite: MATH 2410/261</p>	6	6
PHYS 5980	<p>SELECTED TOPICS IN PHYSICAL SCIENCE (1-9)</p> <p>An exploration of both content specific and pedagogical topics for elementary and high school teachers in physical science. May be repeated under different topics for a maximum total of nine credit hours.</p>	1	1

Political Science (POL)

Course	Course Description	Credit Hrs.	Contact Hrs.
POL 0920	<p>LAW SCHOOL ADMISSION TEST PREPARATION (2)</p> <p>Preparation and practice for the Law School Admissions Test. Credit does not count toward graduation.</p> <p>Prerequisite: Junior standing or consent of the instructor.</p>	2	2
POL 1000	<p>CRITICAL THINKING IN POLITICS AND LAW (3)</p> <p>Reasoning processes in politics and law. (A critical thinking course.)</p>	3	3

POL 1010	AMERICAN NATIONAL GOVERNMENT (3) Nature and function of our national system of government, with attention to the impact of the Constitution and the Supreme Court on the definition of civil liberties. (Enrichment core course.) IAI: S5 900 PLS 911	3	3
POL 1020	SURVEY OF POLITICAL SCIENCE (3) Presentation of methodology, political theory, international relations, comparative government, public administration, American political institutions, and political economy. IAI: S5 903	3	3
POL 1099	FRESHMAN SEMINAR IN POLITICAL SCIENCE (1) Introduction to the expectations of the university. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life. Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.	1	1
POL 1110	PARLIAMENTARY PROCEDURE (1) An introduction to the basic rules of parliamentary procedure.	1	1
POL 1310	LAW SCHOOL APPLICATION (1) Preparation for Law School Admission Test (LSAT) and law school applications, visits to law schools, internships, and financial aid.	1	3
POL 2010	201 POLITICAL PARTIES AND POLITICS (3) Development, organization, and function of political parties. Prerequisite: Sophomore standing or consent of the department.	3	3
POL 2020	AMERICAN POLITICAL THOUGHT (3) American political thought from the colonial era to the present. Topics include the	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>founding, the issue of slavery, African American political thought, and feminist/womanist contributions. (Writing emphasis course.)</p> <p>Prerequisite: Consent of the department.</p>		

POL 2050	CHICAGO POLITICS (3) An analysis of the political processes and institutions in the City of Chicago. Prerequisite: Sophomore standing or consent of the department.	3	3
POL 2060	THE PRESIDENCY (3) Office, powers, and limits. Prerequisite: Consent of the department.	3	3
POL 2070	LEGISLATIVE PROCESS (3) Comparative analysis of legislative systems in Congress, state legislatures, and city councils. Prerequisite: Sophomore standing or consent of department.	3	3
POL 2080	NEIGHBORHOOD/COMMUNITY DEVELOPMENT (3) An examination of the policies and issues involved in neighborhood/community development. Focus will be on planning, project management, evaluation and citizen participation. Prerequisite: Sophomore standing or consent of the department.	3	3
POL 2150	CAMPAIGNS AND ELECTIONS (3) Political campaigns and elections in the American democratic process; electoral procedures and the roles of political parties and special interest groups.	3	3
POL 2210	PUBLIC ADMINISTRATION PRINCIPLES (3) A comprehensive analysis of the components of the field of public administration. Organization, management problems, personnel policy, financial administration, and administrative responsibility within a democratic political system. Writing emphasis course. Prerequisite: Consent of the department.	3	3
POL 2230	PUBLIC POLICY ANALYSIS (3) Origin, development, and implementation of government policies by administrative agencies. Prerequisite: Sophomore standing or consent of the department.	3	3
POL 2390	MODEL ILLINOIS GOVERNMENT (2)	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Opportunity for a practical understanding of the principles, operations, and institutions of Illinois state government, with required participation in Model Illinois Government simulation.		
POL 2500	THE WORLD IN CRISIS (3) An introduction to current international questions. Trends in global politics leading to conflicts, and theoretical frameworks for understanding and analyzing to those conflicts.	3	3
POL 2540	STATE AND LOCAL GOVERNMENT (3) Structure, organization, and operation of state and local governments in the United States. Writing emphasis course. IAI: S5 902	3	3
POL 2600	AFRICAN POLITICAL DEVELOPMENT (3) Political development in African nations through the precolonial, colonial, and post independence eras. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: Consent of the department.	3	3
POL 2610	AMERICAN FOREIGN POLICY (3) A survey of the objectives, formulation, and implementation of American foreign policy. Prerequisite: Consent of the department.	3	3
POL 2650	POLITICAL AND ECONOMIC DEVELOPMENTS IN THE CARIBBEAN (3) An examination of the political process in the Caribbean states with special emphasis on the economic problems arising in the transition from colonial status to independence. Prerequisite: Consent of the department.	3	3
POL 2930	WORKSHOP IN WORLD PEACE ORGANIZATIONS (3) Study of world peace-keeping organizations from the 19th century through a workshop approach, based on the structure of the United Nations. Individual students will participate in Model UN conferences. May be repeated for a maximum of six credit hours. Does not count as political science elective credit for political science majors or minors, nor in general education. Credit not given for both POL 2930/293 and HIST 2930/293 during the same semester. Prerequisite: Consent of the instructor.	3	3
POL 3000	INTERNATIONAL LAW (3) A study of the basic principles, political nature and juridical procedures of contemporary	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	international law, including an examination of its role in international relations. Prerequisite: Junior standing or consent of the department.		
POL 3030	POLITICAL THEORY: CLASSICAL (3) Explores a variety of classical political theorists, both western and non-western, including Plato, Aristotle, and Lao-Tzu. Students will read original texts and commentary on the theorists. (Writing emphasis course.) Prerequisite: Consent of the department.	3	3
POL 3040	POLITICAL THEORY: MODERN (3) Development of liberalism through Hobbes, Locke, Rousseau, and other theorists including African American philosophers. Emphasizes issues of race, gender, class and ethnicity. (Writing emphasis course.) Prerequisite: Consent of the department.	3	3
POL 3140	ADMINISTRATIVE INTERNSHIP FIELD (3-12) Special assignments or a research project in a government office, a law office or publicrelated private organization. Thirty to 225 clock hours field experience. May be repeated for credit up to a maximum of 12 hours. Prerequisite: Junior standing, 2.5 GPA., completion of 9 semester credit hours of political science, and consent of the instructor.	3	3
POL 3150	POLITICAL SOCIALIZATION AND PUBLIC OPINION (3) Nature of childhood political education and of adult public opinion, with attention to minority cultures. Prerequisite: Junior standing or consent of the department.	3	3
POL 3160	JUDICIAL PROCESS (3) Introduction to the structure and process of the judiciary in the United States, England, and France. Prerequisite: Junior standing or consent of the department.	3	3

POL 3200	FEDERALISM AND INTERGOVERNMENTAL RELATIONS IN AMERICA (3) A critical examination of American federalism and of selected areas of intergovernmental relations such as the evolution and development of the grant-in-aid system. Prerequisite: Junior standing or consent of the department.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
POL 3220	PUBLIC PERSONNEL ADMINISTRATION (3) A study of the recruitment, position classification, pay politics, employee relations, promotion, transfer and training of public employees. Prerequisite: POL 2210/221 or consent of the department.	3	3
POL 3240	PROBLEMS IN PUBLIC ADMINISTRATION (3) An analysis of administrative problems in government, such as those relating to financial and personnel management, administrative responsibility and control, regulation, secrecy and freedom of information. Prerequisite: POL 2210/221 or consent of the department.	3	3
POL 3250	POLITICS AND EDUCATION (3) Analysis of the links between politics and education in the United States; the role of schools in political socialization; the impact of economic and political structures on schooling, with special emphasis on the relationship between race, class and education. Prerequisite: Junior standing or consent of the department.	3	3
POL 3260	POLITICS OF BUDGETING (3) An examination of the national budgetary conflict in order to discover priorities and the strategies of the winners and losers in the allocation of public money. Prerequisite: Junior standing or consent of the department.	3	3
POL 3270	POLITICS OF LATIN AMERICA (3) Analysis of contemporary political systems of Latin American nations. Prerequisite: Consent of the department.	3	3

POL 3280	ADMINISTRATIVE LAW (3) Supreme court cases on administrative rule-making by governmental agencies, with emphasis on labor-management relations, affirmative action, and consumer protection. Prerequisite: Consent of the department.	3	3
POL 3290	COMPARATIVE PUBLIC ADMINISTRATION (3) A comparative analysis of the structure, management and functions of governmental bureaucracies in the United States, Western Europe and the Third World. Prerequisite: Junior standing or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
POL 3300	PUBLIC MANAGEMENT (3) Analysis of leadership roles, decision-making models, and management by objectives in governmental agencies. Prerequisite: Junior standing or consent of the department.	3	3
POL 3310	MOCK TRIAL I: TRIAL ADVOCACY (3) Theory and practice of trial advocacy (including opening statements, direct and crossexamination techniques, closing statements and evidentiary objections) in preparation for participation in the American Mock Trial Association annual competition and invitational tournaments. May not be used in fulfillment of political science requirements. Prerequisite: Junior standing or consent of the department.	3	3
POL 3350	URBAN POLITICS AND PUBLIC POLICY (3) Effect of government organization, community participation, and economic power structure on the policy making process in metropolitan areas, with emphasis on Chicago. Prerequisite: Sophomore standing or consent of the department.	3	3
POL 3370	WOMEN IN POLITICS (3) The role of women in the political arena with focus on grass roots and elite politics at the national and international level within historical context. Cross-listed as HIST 4390/339. Credit not given for both POL 3370/337 and HIST 4390/339.	3	3

POL 3380	WOMEN AND THE LAW (3) Study of state laws, federal laws, and U.S. Supreme Court cases dealing with the legal rights of women in the United States. Prerequisite: Consent of the department.	3	3
POL 3500	POLITICAL INQUIRY AND COMPUTER APPLICATIONS (3) Methodology of political science and the use of computer facilities to analyze political data. Prerequisite: Consent of the department.	3	3
POL 3510	BLACK POLITICS IN AMERICA (3) Structure and dynamism of recent and contemporary Black political movements. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: Consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
POL 3550	COMPARATIVE GOVERNMENT (3) Comparison of political systems of principal foreign governments. IAI: S5 905 PLS 914 Prerequisite: Sophomore standing or consent of the department	3	3
POL 4030	AMERICAN CONSTITUTIONAL LAW (3) Development of constitutional law; Supreme Court, Congress, presidency, state powers. Prerequisite: Junior standing or consent of the department.	3	3
POL 4040	CONTEMPORARY INTERNATIONAL RELATIONS (3) Principles of international politics. IAI: S5 904N PLS 912 Prerequisite: Junior standing or consent of the department.	3	3
POL 4050	CIVIL LIBERTIES AND CIVIL RIGHTS (3) Analysis of the United States Constitution and relevant court cases in the area of civil liberties and civil rights. Prerequisite: Consent of the department.	3	3

POL 4320	INTERNATIONAL ORGANIZATIONS (3) Theory and practice of international organizations with a focus on the United Nations and some consideration of regional organizations as well.	3	3
POL 4330	POLICY DEVELOPMENT AND EVALUATION (3) The process of program formulation and administration; approaches to organizing fiscal support for policy implementation; and introduction to the methods used to evaluate program impact and effectiveness. Prerequisite: Junior standing or consent of the department.	3	3
POL 4340	MOCK TRIAL II: PRACTICUM (3) Intense preparation for the American Mock Trial Association Tournament. The team will compete at invitational and regional tournaments and, if successful, at the national championship. Study and practice of criminal and civil procedure as used in the simulation. May not be used to fulfill political science major requirements. May be repeated once for credit. Prerequisite: Junior Standing or consent of the department.	3	3
POL 4400	POLICY SEMINAR (3) A detailed examination of selected policy areas of current political relevance. At least one	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	seminar will be offered each year on such policy fields as health and welfare, energy, transportation, housing and communications. Prerequisite: Junior standing or consent of the department.		
POL 4420	PUBLIC POLICY AND AGING (3) An examination of the development, implementation, analysis and implications of major public policies and programs affecting the elderly in the United States, with some crossnational comparisons. Demographic, economic, and political forces that give rise to aging policy. Prerequisite: Junior standing or consent of the department.	3	3
POL 4520	INDEPENDENT STUDY IN POLITICAL SCIENCE (1-3) Staff-directed study in special topics. May be repeated once under a different topic for one to three additional hours. Prerequisite: Political science major; Junior standing; consent of the department.	1	1

POL 4650	SENIOR THESIS (3) Intensive readings, research, and preparation of a senior thesis. Prerequisites: Admission to Honors Program in Political Science. Completion of related independent study (POL 4520/352) in prior semester and approval of department.	3	3
POL 4750	HONORS THESIS I (3) Intensive readings and research for preparation of senior honors thesis. Open to students approved for program honors only. Prerequisite: Admission to the Honors Program in Political Science	3	3
POL 4850	HONORS THESIS II (3) Intensive research and preparation of senior honors thesis. Open to students approved for program honors only. Prerequisite: Admission to Honors Program in Political Science	3	3
POL 4990	SPECIAL TOPICS IN POLITICAL SCIENCE (3) Intensive study of a selected subject in political science. May be repeated once under a different topic. Prerequisite: Senior standing or consent of the department.	3	3

Pre Pharmacy (PPHR)

Course	Course Description	Credit Hrs.	Contact Hrs.
PPHR 1000	FRESHMAN SEMINAR: PRE-PHARMACY (1) Introductory survey of the pharmacy profession. Study skills, career planning, success strategies, effective problem solving techniques, and a plethora of resources will be presented.	1	1

Physiology (PSLY)

Course	Course Description	Credit Hrs.	Contact Hrs.
PSLY 2040	<p>HUMAN PHYSIOLOGY LECTURE/DISCUSSION/LABORATORY /6 (4)</p> <p>Basic physiology of muscular contraction, circulation, digestion, respiration, excretion, body fluids, and reproduction. Additional course fee. NUR 903.</p> <p>Prerequisite(s): ENG 1280/1240 and BIOL 1080 or ZOOL 2040.</p>	4	6
PSLY 3050	no record	3	3
PSLY 4035	<p>HOMEOSTATIC MECHANISMS/ ADVANCED HUMAN PHYSIOLOGY LECTURE AND LABORATORY /6 (4)</p> <p>Examination of the contributions of the respiratory, renal and cardiovascular systems in the maintenance of homeostasis of the internal environment. Credit will not be given for both Physiology 4035/335 and Physiology 5035/435.</p> <p>Prerequisite: PSLY 2040/204.</p>	4	6
PSLY 4200	<p>COMPARATIVE CELLULAR NEUROPHYSIOLOGY (4)</p> <p>Survey of animal nervous systems used in the formulation of current theories of nerve physiology from a historical and experimental perspective. Cellular approach to the study of the nervous system, including synaptic biophysics, nerve microanatomy, and nervous integration.</p> <p>Prerequisite: PSLY 2040/204 or equivalent.</p>	4	4
PSLY 4210	<p>COMPARATIVE ANIMAL PHYSIOLOGY (3)</p> <p>The physiological and biochemical diversity of animals. Emphasis on the physiological mechanisms involved in adaptation to habitat.</p> <p>Prerequisite(s): ZOOL 2040 and CHEM 2450 and 2460.</p>	3	3
PSLY 4330	<p>PHYSIOLOGICAL CONTROL MECHANISMS LECTURE AND LABORATORY /6 (4)</p> <p>Endocrine and nervous control mechanisms. An analysis of glandular and central nervous system functioning as they relate to normal body physiology and behavior patterns.</p> <p>Prerequisite: PSLY 2040/204 and admission to the premedical/pre dental option or consent of the department.</p>	4	6

PSLY 4600	<p>SELECTED TOPICS IN PHYSIOLOGY LECTURE AND LABORATORY/1-6 (1-4)</p> <p>In-depth study of selected topics in physiology. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics.</p> <p>Prerequisite: Consent of the department.</p>	1	1
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Course	Course Description	Credit Hrs.	Contact Hrs.
PSLY 5035	<p>HOMEOSTATIC MECHANISMS/ADVANCED HUMAN PHYSIOLOGY (4)</p> <p>Examination of the contributions of the respiratory, renal and cardiovascular systems in the maintenance of homeostasis of the internal environment. Credit will not be given for both Physiology 4035/335 and Physiology 5035/435.</p> <p>Prerequisite: PSLY 2040/204.</p>	4	6
PSLY 5036	<p>ENERGETIC & DEFENSE PHYSIOLOGICAL MECHANISMS (4)</p> <p>Basic mechanisms of gastrointestinal, lymphatic, integumentary, and musculoskeletal system functions and their role in human health and well being. Credit will not be given for both Physiology 4036 and Physiology 5036.</p> <p>Prerequisites; PSLY 2040/204 or consent of department.</p>	4	6
PSLY 5200	<p>COMPARATIVE CELLULAR NEUROPHYSIOLOGY LECTURE AND LABORATORY /4/ (4)</p> <p>Survey of the animal nervous systems used in the formulation of current theories of nerve physiology from a historical and experimental perspective. Cellular approach to the nervous system, including synaptic biophysics, nerve anatomy, and nervous integration. Credit will not be given for both 4200/320 and 5200/420.</p> <p>Prerequisite: PSLY 2040/204.</p>	4	4
PSLY 5210	<p>COMPARATIVE ANIMAL PHYSIOLOGY (3)</p> <p>The physiological and biochemical diversity of animals. Emphasis on the physiological mechanisms involved in adaptation to habitat.</p> <p>Prerequisite: ZOOL 2040/204 and CHEM 2510/254.</p>	3	3
PSLY 5330	<p>PHYSIOLOGICAL CONTROL MECHANISMS LECTURE AND LABORATORY /6/ (4)</p> <p>Endocrine and nervous control mechanisms. An analysis of glandular and central nervous system functioning as they relate to normal body physiology and behavior patterns.</p> <p>Prerequisite: PSLY 2040/204 or equivalent</p>	4	6

PSLY 5600	<p>SELECTED TOPICS IN PHYSIOLOGY (1-4)</p> <p>In-depth study of selected topics in physiology. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics.</p> <p>Prerequisite: Consent of the department.</p>	1	1
PSLY 5700	<p>CELL PHYSIOLOGY (3)</p> <p>Physical, chemical, and mathematical interpretation of basic life processes at the cellular level. Multicellular development and integration.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Two semesters of organic chemistry.		

Psychology (PSYC)

Course	Course Description	Credit Hrs.	Contact Hrs.
PSYC 1000	<p>PSYCHOLOGY OF PERSONAL ADJUSTMENT (3)</p> <p>Psychological topics applied to personal, academic and career growth. Selected readings pertaining to issues of personal identity incorporated into a laboratory learning experience. (Does not fulfill major requirements.)</p>	3	3
PSYC 1050	<p>FRESHMAN SEMINAR: PSYCHOLOGY (1)</p> <p>Introduce students to the expectations of the university. Hands-on activities that promote effective study skills. Identify and explore campus resources. Career development, coping strategies, as well as helpful communication skills to assist in acclimation to college. For Psychology majors with freshman standing.</p>	1	1
PSYC 1100	<p>INTRODUCTION TO PSYCHOLOGY (3)</p> <p>The scientific method, fundamental principles of sensory and thought processes, biological bases of behaviors, learning and language development, human development, mental health, exceptionality, emotion and motivation, personality and group processes. (Enrichment core course.) IAI: S6 900 SPE 912</p> <p>Note: PSYC 1100/141 is a prerequisite for all undergraduate psychology courses.</p>	3	3
PSYC 1130	<p>SCIENCE IN THE SERVICE OF SOCIETY (3)</p> <p>Study of the intersection between science and a major social issue using rigorous research tools. Emphasis will be placed on a multidisciplinary approach to collecting and evaluating information to understand the chosen social issue. Students will build their analytical skills by engaging the larger community in an authentic project of local interest.</p> <p>Prerequisite: Admission to the university.</p>	3	4
PSYC 2000	<p>LIFE SPAN DEVELOPMENT (3)</p> <p>The study of physical, mental, psychosocial development and health considerations throughout the life span. Credit given for only one of the following: Psychology 2000/217 or 3020/308. (Enrichment core course.) IAI: S6 902, SED 903.</p> <p>Prerequisite: PSYC 1100/141.</p>	3	3

PSYC 2020	EDUCATIONAL PSYCHOLOGY (3) Nature and measurement of the learning process in elementary and high schools. Students are required to complete 10 clock hours of observation in the schools. Requires TB test and criminal (see COE) background check. Credit will not be given for more than one of the following: Psychology 2020/206, 210 and 218. Prerequisite: PSYC 1100/141 Education majors only and teaching candidates.	3	3
PSYC 2040	PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Cognitive, affective, psychomotor and social development including the ages in preschool, middle school, and adolescence. Social and cultural influences on development. Identification of exceptional individuals, including the learning disabled. Credit will be given for only one of the following: PSYC 2040/204 or PSYC 3020/308. Prerequisite(s): PSYC 1100/141		
PSYC 2060	COMMUNITY SERVICE LEARNING IN PSYCHOLOGY (3) Implementation of self-help techniques, prevention, and intervention programs with underserved populations. Requires journaling, observation and writing assignments in addition to field placement. Prerequisite(s): PSYC 1100/141 and consent of instructor.	3	3
PSYC 2080	INTRODUCTION TO STATISTICAL METHODS IN PSYCHOLOGY (3) Descriptive statistics: central tendency and variability. Correlation and regression. Prerequisite: PSYC 1100/141 and MATH 095 or consent of the department.	3	3
PSYC 2100	SOCIAL PSYCHOLOGY (3) A survey of basic theories and research on how we think about, influence, and relate to others. Topics include person perception, attitudes, interpersonal attraction, social influence, prejudice, aggression, and helping. Students will produce an APA style literature review (A writing emphasis course). IAI: S8 900 PSY 908 Prerequisite: PSYC 1100/141	3	3
PSYC 2120	PSYCHOLOGY OF STRESS AND ITS MANAGEMENT (3) A critical analysis of the psychological aspects of stress. Theory, diagnosis and management of stress related disturbances. Prerequisite: PSYC 1100/141.	3	3

PSYC 2140	PSYCHOLOGY OF DEATH AND DYING (3) Historical and modern perspectives on death, euthanasia and suicide, life after death, funereal options, dying, loss and the role of survivors and children's grief. Prerequisite: PSYC 1100/141.	3	3
PSYC 2150	PSYCHOLOGY OF PERSONALITY (3) Course examines the major theories of personality and provides an integrative framework for understanding the dynamics of personality. IAI: PSY 907 Prerequisite: PSYC 1100/141	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PSYC 2155	ABNORMAL PSYCHOLOGY (3) The course examines a scientific theories, concepts, definitions, research and applications in psychopathology. Includes the identification, classification, diagnosis and therapeutic models of major psychological disorders. The course introduces the underlying diagnostic and treatment methodologies in the DSM. IAI: PSY 905 Prerequisites: PSYC 1100/141	3	3
PSYC 2160	PSYCHOLOGY OF MASS MEDIA (3) Expertise in appropriate research methods courses and consent of the instructor. Collection and analysis of data on media preferences and/or program content. Writing of results in publishable form. May be taken up to three times if different media or different aspects of same medium are examined. Field work required.	3	3
PSYC 2200	PSYCHOLOGY OF GENDER (3) Examination of gender stereotypes: social roles, development, sexuality, power, and achievement in males and females. Survey of current gender-based research and theory. Prerequisite: PSYC 1100/141.	3	3
PSYC 2235	INTRODUCTION TO COMMUNITY PSYCHOLOGY (3) An introduction to the topic of Community Psychology (CP). Students will learn about the history of this field, its scientific roots, and the social movements that propelled its founding. This course will further expose students to the theoretical foundations, CP's approach to research, basic concepts of the field, and perspectives on community, social change and social justice. Prerequisite: PSYC 1100/141	3	3

PSYC 2250	PSYCHOLOGICAL PROBLEMS RELATED TO AFRICAN AMERICANS (3) Identification of psychological problems of contemporary African Americans. Related social, economic, and historical factors will be emphasized. Psychological principles applied to understanding and treatment of problems. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: PSYC 1100/141	3	3
PSYC 2300	CULTURAL PSYCHOLOGY (3) The psychological importance of cultural differences. Ways in which human perceiving, thinking, feeling, striving and relating to others are conditioned by cultural membership. Contributions of work in cross-cultural psychology in the areas of education, training, cultural awareness, definition and assessment of intelligence, psychopathology and other	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	human characteristics. Prerequisites: PSYC 1100		
PSYC 2350	DRUGS AND ALCOHOL IN SOCIETY (3) Examines the use of mind-altering drugs in selected societies around the world. Studies the neurobiology of drug effects on the brain. Looks at contemporary issues in the USA including the illicit drug trade, drugs in the criminal justice system, approaches to treatment, and the legalization debate. Interdisciplinary course co-taught by faculty in Health Sciences and Psychology. Prerequisites: PSYC 1100/141	3	3
PSYC 2400	INTRODUCTION TO FORENSIC PSYCHOLOGY (3) Introduction to the field of forensic psychology. The discussion of fields's history as well as the various types of evaluations that are performed by forensic psychologists. Exploaration of expert testimony of forensic psychologists in addition to the ethical issues involved in the practice of forensic psychology. Prerequisites: PSYC 1100	3	3

PSYC 2500	RELIGIOUS AND SPIRITUAL ISSUES IN PSYCHOLOGY (3) Explores the relationship between psychological theory and religious beliefs and spiritual values. Students apply these foundations to counseling situations involving addictions, grief, and violence. Families, singles, youth, and prison populations are addressed. Requires 16 hours of volunteer work and internet access. Prerequisites: PSYC 1100	3	3
PSYC 2700	INTRODUCTION TO BEHAVIORAL RESEARCH METHODS (3) A survey of research methods used in the study of behavior. Students will become familiar with basic research concepts and design pertaining to the field of psychology. Students will produce an APA style research proposal (A writing emphasis course). Prerequisite: PSYC 1100/141	3	3
PSYC 3060	CRISIS COUNSELING (3) This course will examine crisis theories and application in normal development crisis, situational crisis, and existential crisis. Skill building models of crisis counseling for all crisis categories will be developed and applied. Prerequisite: PSYC 1100/141	3	3
PSYC 3070	HELPING SKILLS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Competencies for para-professionals in the helping professions. Interpersonal communication skills and problem solving, group participation skills, and helping processes. For entry level positions in psychology, social services and other help related fields. Prerequisites: PSYC 1100/141		
PSYC 3075	INTRODUCTION TO HEALTH PSYCHOLOGY (3) Examines the psychological aspects of the cause, diagnosis, prevention, and treatment of a variety of health concerns. Emphasizes the biopsychosocial model and study of how social, emotional, behavioral, biological, and spiritual factors influence health. Addresses specific topics including stress, pain management, addictions, patient-physician relationships, and illnesses such as diabetes, HTN, cancer and AIDS. Prerequisites: PSYC 1100/141	3	3

PSYC 3080	HISTORY OF PSYCHOLOGY (3) Current theoretical systems in psychology and their historical antecedents. Seminar. Prerequisite: PSYC 1100/141	3	3
PSYC 3100	COGNITIVE PSYCHOLOGY (3) Reviews current thinking on topics such as perception, attention, learning, memory, language, decision making and cognitive neuroscience. Students will produce an APA style lab report that includes an introduction, method, results and discussion. Prerequisite(s): PSYC 1100/141. Nine credit hours in psychology.	3	3
PSYC 3120	PHYSIOLOGICAL PSYCHOLOGY (3) Introduces the biological bases of behavior and mental function. Students will use PowerPoint to prepare a professional presentation on relevant topics. Prerequisite: PSYC 1100/141	3	3
PSYC 3140	PERCEPTION & COGNITION (3) Follows the visual and auditory streams through the peripheral and central nervous systems. Examines cognitive models of perception. Also includes automated bibliographic searching and writing a reference list in APA style. Additional course fee. Prerequisite: PSYC 1100/141	3	3
PSYC 3160	INDUSTRIAL PSYCHOLOGY (3) Psychological methods in the analysis of human factors in business and industry. Prerequisite: PSYC 1100/141	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PSYC 3180	ADVANCED SEMINAR IN PSYCHOLOGY (3) Seminar focusing on a specific topic in psychology. The exact topic will vary from semester to semester. Requirements will include a paper of publishable quality and use of primary sources. Enrollment limited to 20 students. May be repeated once with a different topic. Prerequisite(s): PSYC 1100/141, 2040/204 or 2000/217; 12 hours in psychology and senior status.	3	3

PSYC 3220	ADVANCED ISSUES IN AFRICAN AMERICAN PSYCHOLOGY (3) A continuation of Psyc 3200/351 with emphasis on the family and interpersonal relationships. Evaluated within an afrocentric social context. (This course satisfies the elective course requirements for the African-American studies major or minor.) Prerequisite: PSYC 3200/351	3	3
PSYC 3240	PSYCHOLOGICAL ASSESSMENT OF AFRICAN AMERICANS (3) Psychological testing of African Americans; history and past implications; present status; implications for test construction and teaching at the elementary and secondary levels. Prerequisite: Psyc 1100/141.	3	3
PSYC 3260	PSYCHOLOGY OF CHILD ABUSE (3) History and legal aspects of child abuse and corporal punishment in the United States. Effects of physical abuse on children's development. Psychosocial characteristics of child abusers. Organizations in the United States that deal with child abuse. Prerequisite: PSYC 1100/141 or consent of the department.	3	3
PSYC 3280	PSYCHOLOGY OF HUMAN SEXUALITY (3) A study of the psychosexual development of individuals living in a modern technological society. Topics include the biological-sociological-psychological aspects of learning, masculinity, femininity, sexual counseling, love, intimacy, marriage, divorce, roles, and gender. Prerequisite: PSYC 1100/141	3	3
PSYC 3300	THE PSYCHOLOGY OF PARENTING (3) An examination of current theories of childbearing, and implications for parent behavior. Methods of facilitating good parenting. A critical examination of current "how to parent" child care manuals. Role of the one-parent family in the development of the child's personality. Prerequisite: PSYC 1100/141	3	3
PSYC 3320	FAMILY AND COMMUNITY VIOLENCE (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>The course examines violence in the family and community with an emphasis on racial and ethnic differences. The course provides an overview of the incidence and prevalence, theories of causation, risk factors, long term effects, prevention/treatment for child abuse/neglect, spousal abuse and youth violence.</p> <p>Prerequisite: PSYC 1100/141</p>		
PSYC 3500	<p>STATISTICAL METHODS IN THE BEHAVIORAL SCIENCES (3)</p> <p>Descriptive and inferential statistics, including correlation and regression, point estimates, confidence intervals, one and two-sample tests, analysis of variance. Computer programs in statistics. Students will communicate statistical results in an APA style narrative form.</p> <p>Prerequisite(s): PSYC 1100/141 and MATH 1040 or MATH 1200/162 or an equivalent.</p>	3	3
PSYC 3600	<p>PSYCHOLOGICAL ASSESSMENT OF VETERANS' AFFAIRS (3)</p> <p>Focuses on veterans' adjustments and maladjustments to military and community life, emphasizing psychological assessments, diagnosis and treatment. Addresses outcome phenomenon such as veteran Post Traumatic Stress Disorder, Military Sexual Trauma, Domestic Violence, Homelessness, Addictions and Anger Management. Included are military combat readiness, homeland security, veteran organization resources and the newest trends in psychological treatment of veterans and their families.</p> <p>Prerequisites: PSYC 1100/141 and PSYC 2100/263 or PSYC 2155/4155.</p>	3	3
PSYC 4000	<p>INDEPENDENT STUDY IN PSYCHOLOGY (3)</p> <p>Independent and/or group studies, relating to students' special interests or programs. Students must contact an instructor from within the psychology department and ask them to supervise the independent and/or group study. Scope of the independent and/or group study and hours are to be arranged with the supervising instructor (a maximum of 3 credit hours per semester). May be repeated for a maximum of 6 credit hours.</p> <p>Prerequisite(s): PSYC 1100/141; must be a declared psychology major; consent of both the Supervising instructor and Department Chairperson.</p>	3	3
PSYC 4100	<p>SENIOR THESIS AND EXPERIMENTAL PSYCHOLOGY (4)</p> <p>The design, conduct, and interpretation of experiments in psychology. Experience in laboratory procedures and statistical analysis. Fulfills senior thesis requirement. (A writing emphasis course).</p> <p>Prerequisite(s): PSYC 1100/141, PSYC 2080/231 and PSYC 4185/331 or PSYC 2700 and PSYC 3500. Psychology Majors only.</p>	4	4
PSYC 4120	<p>BEHAVIORAL RESEARCH METHODOLOGY (3)</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Survey on non-experimental behavioral research methodology. Students will design research, and collect and analyze data in various areas of psychology.</p> <p>Prerequisite(s): PSYC 2080/231 and PSYC 4185/331 or consent of department.</p>		
PSYC 4140	<p>INTRODUCTION TO PSYCHOLOGICAL TESTING AND MEASUREMENT (3)</p> <p>Theories of measurement. Validity, reliability, item construction and item validation in intelligence, personality, interest, attitude, and aptitude tests.</p> <p>Prerequisite(s): PSYC 1100/141 and 2080/231 or equivalent.</p>	3	3
PSYC 4160	<p>INTERNSHIP IN PSYCHOLOGY (3-6)</p> <p>Supervised 100-hour internship with opportunities for participation in a cognitive, physiological, forensic, or social service setting. Includes writing a final paper in APA format. May be taken in a two-semester sequence for a maximum of 6 credit hours.</p> <p>Prerequisite(s): PSYC 1100/141, completion of 9 credit hours in psychology, declaration of major in psychology, second semester junior standing, 3.0 cumulative GPA (minimum of 75 credit hours). Requires departmental approval one semester in advance of registration. Consent of the department.</p>	3	3
PSYC 4170	<p>INTERNSHIP IN SPIRITUAL PSYCHOLOGY (3-6)</p> <p>Supervised 100-hour internship that provides experiences in spiritual counseling. Students are placed in a religious institution or other organization that provides counseling from a spiritual perspective. May be taken in a two-semester sequence for a maximum of six semester hours.</p> <p>Prerequisites: Formal admission to the Spirituality in Psychology Program. PSYC 1100/141; completion of 9 credit hours in psychology, 3.0 cumulative GPA or consent of the department.</p>	3	3
PSYC 4175	<p>SPIRITUALITY IN COUNSELING (3)</p> <p>Explores implications for addressing client spirituality in the counseling process. Spiritual (e.g., 12-step programs) models, faith-based programs, methods for working with clients' diverse beliefs, ethical issues, research findings, and spiritual assessment techniques will be examined.</p> <p>Prerequisites: PSYC 1100/141 and PSYC 2500</p>	3	3

PSYC 4180	COMPUTER APPLICATIONS IN THE BEHAVIORAL SCIENCES (3) Design computer spreadsheets and data base files for statistical analysis in research. Become proficient in SPSS, EXEL, Internet, and other applications used in the behavioral sciences. Prerequisite(s): PSYC 2080/231 or PSYC 4190/357 or MATH 1600/210 and PSYC 4185/331	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	or consent of the department.		
PSYC 4185	STATISTICAL METHODS IN PSYCHOLOGY (3) Inferential statistics: point estimates, confidence intervals, one-sample z and t tests, twosample z and t tests, analysis of variance. Prerequisite(s): PSYC 1100/141 and 2080/231 or equivalent.	3	3
PSYC 4190	FUNDAMENTALS OF STATISTICAL METHODS (3) Descriptive statistics through correlation and regression. Inferential statistics: point estimates, confidence intervals, one-sample z and t tests of significance, two-sample z and t tests of significance. Prerequisite(s): PSYC 1100/141 and MATH 1040 or 1200 or consent of the department.	3	3
PSYC 4200	PHARMACOLOGY FOR ADDICTIONS (3) Classification of alcohol and other drugs' physical and psychological effects, medical complications, assessment an diagnostic techniques, treatment settings and modalities. Prerequisite(s): PSYC 1100/141 and PSYC 4155/336; must be a declared minor in Alcohol and Other Drug Abuse Counsel or Training.	3	3
PSYC 4201	ETHICS AND ADDICTION (3) Prepares students to develop ethical standards and apply them in alcohol and drug dependency counseling. Prerequisite: PSYC 1100/141 and PSYC 4155/336.	3	3
PSYC 4202	CHEMICAL DEPENDENCY COUNSELING (3) Theory and practice of counseling addictions. Individual, family, group approaches. Screening, intake, treatment delivery models. Prerequisite(s): PSYC 1100/141, 4155/336 and 4205/363; must be a declared minor in Alcohol and Other Drug Abuse Counsel or Training.	3	3

PSYC 4203	COMMUNITY AND DOMESTIC VIOLENCE/ADDICTIONS (3) Influence of drugs, alcohol on family, community violence. Incidence, prevalence, theories, causation, risk factors, long term effects. Prevention strategies. Prerequisites: PSYC 1100/141. 2040/204 or 2000/217.	3	3
PSYC 4204	AODA INTERNSHIP (3-6) Focuses on demonstrating competency in the 12 core functions and 8 practice dimensions of substance use disorder counseling. Supervised field experience using knowledge and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	practicing skills learned in the classroom. May be taken for three credit hours indicating 250 hours of field experience or six credit hours indicating 500 hours of field experience. May be taken twice for three credit hours or once for six credit hours to fulfill the required six credit hours and 500 field experience hours of internship Prerequisite(s): Formal admission to the AODA Program, PSYC 1100/141, PSYC 4202/313 and PSYC 4206/370. Requires departmental approval of internship.		
PSYC 4205	PSYCHOLOGY OF DRUG ADDICTION (3) Introductory course in the chemical, psychological, social, and treatment aspects of drug use, abuse, and dependency. Drug abuse prevention will be introduced through elementary theories of open communication. Prerequisite: PSYC 1100/141	3	3
PSYC 4206	ADDICTION ASSESSMENT/CASE MANAGEMENT (3) Introduction to and training in basic intake, assessment, diagnosis, treatment planning, referral, insurance and other aspects of effective case management. Prerequisites: Formal admission to the AODA Program, PSYC 1100/141, 4155/2155/336 and PSYC 4205/363. Requires departmental approval.	3	3
PSYC 4207	GROUP WORK IN ADDICTIONS COUNSELING (3) Overview of group counseling with substance abusers in a variety of rehabilitation programs. Experiential group counseling focus. Participation in a counseling group with a personal growth focus followed by a period of didactic processing. Prerequisites: PSYC 1100/141, 4205/363.	3	3

PSYC 4210	<p>ADOLESCENT PSYCHOLOGY FOR MIDDLE GRADE TEACHERS (3)</p> <p>Explores the development issues of early adolescence as they pertain to middle school education. Explores the advisory role of middle school teachers in assessing, coordinating, and referring students to health and social service agencies.</p> <p>Prerequisite: PSYC 1100/141</p>	3	3
PSYC 4250	<p>CONFLICT RESOLUTION (3)</p> <p>Survey of key conflict resolution themes, theories, practices, and intervention methods.</p> <p>Prerequisites: CFR 4000</p>	3	3
PSYC 4300	<p>PSYCHOPHARMACOLOGY AND THEORIES OF SUBSTANCE USE DISORDER (3)</p> <p>Provides an introduction to the chemical, psychological, social, and treatment aspects of substance use disorders and a comprehensive review of psychoactive drugs and their classifications, pharmacological effect of tolerance, dependency/withdrawal, cross</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>addiction, and drug interaction.</p> <p>Prerequisite(s): PSYC 1100/141</p>		
PSYC 4302	<p>FAMILY VIOLENCE AND ADDICTIONS/TRAUMA INFORMED TREATMENT FOR WOMEN AND ADOLESCENTS (3)</p> <p>Examination of the influence of drugs/alcohol on family and community violence including incidence, prevalence, theories, causation, and risk factors. Long term effects, prevention strategies and Trauma Informed Treatment for women and adolescents will also be explored.</p> <p>Prerequisite(s): PSYC 1100/141</p>	3	3
PSYC 4303	<p>ASSESSMENT, TREATMENT PLANNING & CASE MANAGEMENT (3)</p> <p>A comprehensive introduction to all aspects of case management, planning, monitoring, and advocacy. A range of manual-driven, evidence-based treatments will be covered including motivational interviewing and enhancement, relapse prevention, twelve-step facilitation, contingency management, trauma-informed seeking safety, and safer sex skills.</p> <p>Prerequisite(s): PSYC 1100/141 and PSYC 4300</p>	3	3

PSYC 4306	<p>DIAGNOSIS AND TREATMENT OF CO-OCCURRING DISORDERS (3)</p> <p>Knowledge and skills necessary for the diagnosis, intervention and treatment of cooccurring disorders (substance use disorder and other mental illness) throughout the lifespan, including impact on the individual, family, and community. This course is designed to help students apply for state certification as Certified Mental Illness/Substance Abuse (MISA).</p> <p>Prerequisite(s): PSYC 4300 Co-requisite(s): PSYC 4302</p>	3	3
PSYC 4307	<p>ADDICTIONS INTERNSHIP I: ADDICTIONS COUNSELING (3)</p> <p>This course will deepen students understanding of substance use disorders, facilitate the development of addiction counseling competencies that are associated with positive treatment outcomes, and increase the student's level of confidence relative to providing substance abuse assessment, education and counseling services. Theories of addiction counseling and application of these theories will comprise a significant part of this course, particularly with how they apply to work with individuals, couples, families, and groups. Co-occurring disorders, such as mental illnesses will also be addressed. Students will develop conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction, assessment strategies (including the use of wraparound assessment and intervention services), wellness strategies for facilitating optimal development and preventing clinician burn-out, and diagnosis and treatment planning. Emphasis will be placed on treatment issues of Women and Adolescents. Students will also complete 300 hours of applied practice in field placement.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): PSYC 4303; admission to the AODA program & approval of the department.		
PSYC 4308	<p>ADDICTIONS INTERNSHIP II: ETHICS & ADDICTIONS (3)</p> <p>Course will explore the scope of practice for certified Alcohol and Other Drugs of Addiction Counselors (AODA) including various professional, legal and ethical issues found in the practice of alcohol and drug abuse counseling. Topics in professional ethics include a review of the AODA "Counselor Code of Ethics", confidentiality and privacy requirements, disciplinary and appeals procedures required for AODA certification as well as professional ethical decision-making in a clinical setting. Students will also complete 300 hours of applied practice in a field placement.</p> <p>Prerequisite(s): PSYC 4307</p>	3	3

PSYC 4650	MINDFULNESS PRACTICE AND STRESS REDUCTION IN THE URBAN ENVIRONMENT (3) Course will examine the historical development and adaptation of mindfulness practice in the United States and explore other traditional mind body practices. Related neuroscience and evidence-based practice will be presented demonstrating the efficacy of mindfulness practice in promoting health and reducing stress related health disorders, particularly among communities disproportionately impacted by stress related illness and interpersonal violence. The importance of "present moment awareness" of the intra/inter personal dynamic as important skill for the helping professional will be emphasized. Prerequisite(s): PSYC 3120/332 or consent of department.	3	3
PSYC 5150	PSYCHOLOGY OF PERSONALITY (3) Course examines the major theories of personality and provides an integrative framework for understanding the dynamics of personality. Prerequisite: PSYC 1100/141.	3	3
PSYC 5155	ABNORMAL PSYCHOLOGY (3) Behavior deviating from normal and its treatment. Prerequisite: PSYC 1100/141.	3	3
PSYC 5170	INTERNSHIP IN SPIRITUAL PSYCHOLOGY (3-6) Supervised internship that provides experiences in spiritual counseling. Students are placed in a religious institution or other organization that provides counseling from a spiritual perspective. May be taken in a two semester sequence for a maximum of 6 credit hours. Prerequisites: PSYC 1100/141, completion of 9 credit hours in psychology, or consent of department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
PSYC 5175	SPIRITUALITY IN COUNSELING (3) Explores implications for addressing client spirituality in the counseling process. Spiritual (e.g., 12-step programs) models, faith-based programs, methods for working with clients' diverse beliefs, ethical issues, research findings, and spiritual assessment techniques will be examined. Prerequisites: PSYC 1100/141 and PSYC 2500	3	3

PSYC 5180	COMPUTER APPLICATIONS IN THE BEHAVIORAL SCIENCES (3) Design computer spreadsheets and data base files for statistical analysis in research. Become proficient in SPSS, EXEL, Internet, and other applications used in the behavioral sciences. Prerequisite: PSYC 2080/231 or PSYC 4190/357; or MATH 1600/210 and PSYC 4185/331; or consent of the department.	3	3
PSYC 5185	STATISTICAL METHODS IN PSYCHOLOGY (3) Inferential statistics: point estimates, confidence intervals, one-sample Z and t- tests, twosample Z and t tests, analysis of variance. Prerequisite: PSYC 2080/231 or equivalent.	3	3
PSYC 5190	FUNDAMENTALS OF STATISTICAL METHODS (3) Descriptive statistics through correlation and regression. Inferential statistics: point estimates, confidence intervals, one-sample Z and t tests of significance, two-sample Z and t tests of significance. Prerequisite: PSYC 1100/141.	3	3
PSYC 5200	PHARMACOLOGY FOR ADDICTIONS (3) Classification of alcohol and other drugs' physical and psychological effects, medical complications, assessment an diagnostic techniques, treatment settings and modalities. Prerequisites: PSYC 1100/141 and PSYC 4155/336.	3	3
PSYC 5201	ETHICS AND ADDICTION (3) Prepares students to develop ethical standards and apply them in alcohol and drug dependency counseling. Prerequisite: PSYC 1100/141 and PSYC 4155/336.	3	3
PSYC 5202	CHEMICAL DEPENDENCY COUNSELING (3) Theory and practice of counseling addictions. Individual, family, group approaches. Screening, intake, treatment delivery models.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: PSYC 1100/141, 4155/336 and 4205/363.		

PSYC 5203	COMMUNITY AND DOMESTIC VIOLENCE/ADDICTIONS (3) Influence of drugs, alcohol on family, community violence. Incidence, prevalence, theories, causation, risk factors, long term effects. Prevention strategies. Prerequisites: PSYC 1100/141, 2040/204 or 2000/217.	3	3
PSYC 5204	AODA INTERNSHIP (3-6) Focuses on demonstrating competency in the 12 core functions and 8 practice dimensions of substance use disorder counseling. Supervised field experience using knowledge and practicing skills learned in the classroom. May be taken for three credit hours indicating 250 hours of field experience or six credit hours indicating 500 hours of field experience. May be taken twice for three credit hours or once for six credit hours to fulfill the required six credit hours and 500 field experience hours of internship Prerequisite(s): Formal admission to the AODA Program, PSYC 1100/141, PSYC 4202/313 and PSYC 4206/370. Requires departmental approval of internship.	3	3
PSYC 5205	PSYCHOLOGY OF DRUG ADDICTION (3) Introductory course in the chemical, psychological, social and treatment aspects of drug use, abuse and dependency. Drug abuse prevention will be introduced through elementary theories of open communication. Prerequisite: PSYC 1100/141 and consent of the department.	3	3
PSYC 5206	ADDICTION ASSESSMENT/CASE MANAGEMENT (3) Introduction to and training in basic intake, assessment, diagnosis, treatment planning, referral, insurance and other aspects of effective case management. Prerequisites: PSYC 1100/141, 4155/336 and PSYC 4205/363.	3	3
PSYC 5207	GROUP WORK IN ADDICTIONS COUNSELING (3) Overview of group counseling with substance abusers in a variety of rehabilitation programs. Experiential group counseling focus. Participation in a counseling group with a personal growth focus followed by a period of didactic processing. Prerequisites: PSYC 1100/141, 5205/363G.	3	3
PSYC 5210	ADOLESCENT PSYCHOLOGY FOR MIDDLE GRADE TEACHERS (3) Explores the development issues of early adolescence as they pertain to middle school education. Explores the advisory role of middle school teachers in assessing, coordinating, and referring students to health and social service agencies.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: PSYC 1100/141		
PSYC 5300	<p>ADVANCED EDUCATIONAL PSYCHOLOGY (3)</p> <p>A seminar in the critical analysis of educational theories, related research, instructional techniques and implementation in learning experiences, including measurement, evaluation and applications in the educational setting. Students are required to complete 10 clock hours of observation in the schools. Requires TB test and criminal (see COE) background check.</p> <p>Prerequisite(s): PSYC 2000/217 or PSYC 2040/204.</p>	3	3
PSYC 5302	<p>FAMILY VIOLENCE AND ADDICTIONS/TRAUMA INFORMED (3)</p> <p>Examination of the influence of drugs/alcohol on family and community violence including incidence, prevalence, theories, causation and risk factors. Long term effects, prevention strategies and Trauma Informed Treatment for women and adolescents will also be explored.</p> <p>Prerequisite(s): PSYC 1100/141</p>	3	3
PSYC 5303	<p>ASSESSMENT, TREATMENT PLANNING & CASE MANAGEMENT (3)</p> <p>A comprehensive introduction to all aspects of case management, planning, monitoring, and advocacy. A range of manual-driven, evidence-based treatments will be covered including motivational interviewing and enhancement, relapse prevention, twelve-step facilitation, contingency management, trauma-informed seeking safety, and safer sex skills.</p> <p>Prerequisite(s): PSYC 1100/141, PSYC 4300 or COUN 5810</p>	3	3
PSYC 5306	<p>DIAGNOSIS AND TREATMENT OF CO-OCCURRING DISORDERS (3)</p> <p>Knowledge and skills necessary for the diagnosis, intervention and treatment of cooccurring disorders (substance use disorder and other mental illness) throughout the lifespan, including impact on the individual, family, and community. This course is designed to help students to apply for state certification as Certified Mental Illness/Substance Abuse (MISA).</p> <p>Prerequisite(s): COUN 5810 or PSYC 4300 Co-requisite(s): PSYC 5302</p>	3	3

PSYC 5307	ADDICTIONS INTERNSHIP I: ADDICTIONS COUNSELING (3)	3	3
	This course will deepen students understanding of substance use disorders, facilitate the development of addiction counseling competencies that are associated with positive treatment outcomes, and increase the student's level of confidence relative to providing substance abuse assessment, education and counseling services. Theories of addiction counseling and application of these theories will comprise a significant part of this course, particularly with how they apply to work with individuals, couples, families, and groups.		

Course	Course Description	Credit Hrs.	Contact Hrs.
	Co-occurring disorders, such as mental illnesses will also be addressed. Students will develop conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction, assessment strategies (including the use of wraparound assessment and intervention services), wellness strategies for facilitating optimal development and preventing clinician burn-out, and diagnosis and treatment planning. Emphasis will be placed on treatment issues of Women and Adolescents. Students will also complete 300 hours of applied practice in field placement. Prerequisite(s): PSYC 4303 or PSYC 5303; admission to the AODA program & approval of the department.		
PSYC 5308	ADDICTIONS INTERNSHIP II: ETHICS & ADDICTIONS (3)	3	3
	Course will explore the scope of practice for certified Alcohol and Other Drugs of Addiction Counselors (AODA) including various professional, legal and ethical issues found in the practice of alcohol and drug abuse counseling. Topics in professional ethics include a review of the AODA "Counselor Code of Ethics", confidentiality and privacy requirements, disciplinary and appeals procedures required for AODA certification as well as professional ethical decision-making in a clinical setting. Students will also complete 300 hours of applied practice in a field placement. Prerequisite(s): PSYC 4307 or PSYC 5307		
PSYC 5500	MINDFULNESS PRACTICE AND STRESS REDUCTION IN THE URBAN ENVIRONMENT (3)	3	3
	Course will examine the historical development and adaptation of mindfulness practice in the United States and explore other traditional mind body practices. Related neuroscience and evidence-based practice will be presented demonstrating the efficacy of mindfulness practice in promoting health and reducing stress related health disorders, particularly among communities disproportionately impacted by stress related illness and interpersonal violence. The importance of "present moment awareness" of the intra/inter personal dynamic as important skill for the helping professional will be emphasized. Prerequisite(s): PSYC 3120/332 or consent of department.		
PSYC 5980		6	6
PSYC 5999		9	9

Public Health (PUBH)

Course	Course Description	Credit Hrs.	Contact Hrs.
PUBH 5110	<p>FUNDAMENTALS OF PUBLIC HEALTH PRACTICE (3)</p> <p>Overview of the historical perspectives, content, scope, processes and progress of public health practice in the United States over the past 150 years in relation to current and future health needs. The core functions of public health, intervention programs and services, unique features of public health, levels of prevention and the roles of governments (local, state, federal) in public health practice are explored. This course will be offered online.</p>	3	3
PUBH 5111	<p>BIOSTATISTICS AND COMPUTER APPLICATIONS (3)</p> <p>This course covers both parametric and non-parametric statistics. The course will cover t-test for independent means and t-test for non-independent means, the use of ChiSquare statistics tests, regression statistics, and the analysis of variance (ANOVA), use of the arithmetic and geometric prediction involving population data. Epi-info and SPSS software or other appropriate software will be used to analyze relatively large population data.</p>	3	3
PUBH 5112	<p>ENVIRONMENTAL HEALTH AND SAFETY (3)</p> <p>This course covers the relationship between environmental exposures and diseases. Air pollution control, water pollution control, occupational health and safety, food safety, hazardous and solid waste management issues are discussed. The role of regulatory agencies, individuals and community groups in the management of environmental hazards and toxins is explored.</p>	3	3
PUBH 5113	<p>EPIDEMIOLOGY (3)</p> <p>This course focuses on the principles and methods of epidemiology. Students are exposed to techniques for interpreting epidemiological data and the approaches used for infectious and non-infectious diseases. Attention is given to the applications of quantitative analysis of genomic epidemiological data, clinical data and the prediction of demographic data and methods for the evaluation of health services.</p>	3	3
PUBH 5114	<p>PRINCIPLES OF HEALTH AND POLICY MANAGEMENT (3)</p> <p>Introduces students to the U.S. health care system, both public and private sectors. Examines the structure of the health system, the process of policy, advocacy for public health, and current topics in health care reform. Additionally, students will be introduced to the organization, financing, delivery, and management of health care systems. Students will learn the fundamental theories and relationships guiding effective management of a health care organization.</p>	3	3

PUBH 5115	BEHAVIORAL, SOCIAL AND CULTURAL ASPECTS OF HEALTH DISPARITIES (3) Examines the behavioral, cultural and social contexts of health disparities, their consequences, and implications for the health of minority populations. It discusses the	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	history of health disparities, inequity, and inequality while highlighting their differences; the role of cultural competence and governmental efforts in reducing health disparities.		
PUBH 5116	COMMUNITY HEALTH RISK ASSESSMENT (3) The course is an advance study of the principles and practice of conducting communitybased assessment of risk factors for poor health and health outcomes. It includes discussion and measurement of individual, group, and contextual factors across racial, ethnic, and socioeconomic groups that contribute to poor health and outcomes. Collaboration among local and state public health departments, voluntary health agencies, and other community organizations are emphasized.	3	3
PUBH 5117	RESEARCH METHODS IN HEALTH SCIENCES (3) This course covers the principles and strategies of conducting scientific research in the health professions. It includes the fundamentals of defining research problems, designing studies, measuring variables, selecting a sample, and analyzing data. Emphasis is placed on developing skills needed for conducting and analyzing research; assessment of health behaviors, and the selection of health problems; design of research proposals for individual student research projects and interpreting results. Prerequisites: PUBH 5111	3	3
PUBH 5118	HEALTH EDUCATION AND COMMUNITY ADVOCACY (3) An interdisciplinary course designed to introduce students to how behavioral change theories can be applied and translated into specific community health education advocacy and policy-level interventions. Readings and discussions center on the development of theory-based strategies with emphasis on issues of control, participation, efficacy and empowerment. Principles of citizen participation, empowerment, coalition and partnership effectiveness as well as social marketing strategies are emphasized.	3	3
PUBH 5120	PRINCIPLES, THEORIES AND PRACTICE IN BEHAVIORAL CHANGE (3) This course provides the fundamental concepts in social science theories and perspectives that comprise the foundation of health education theory and behavior change. Provides competencies for developing conceptual framework for understanding, predicting, and facilitating behavioral change. Students will develop a proposal to implement, and evaluate behavior interventions. Prerequisites: PUBH 5115	3	3

PUBH 5121	ETHICAL AND LEGAL ISSUES IN PUBLIC HEALTH (3) This course will analyze the ethical issues in public health practice. Students will learn a systematic process to prioritize and justify public health decision-making and action based on ethical principles and values. It will review concepts, theories, and ideas from a variety of disciplines including philosophy, political science, law and economics.	3	3
PUBH 5122	FIELD PRACTICUM IN PUBLIC HEALTH I (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	The field practicum provides an opportunity for students to apply theory and intervention strategies in public health settings. This experience is required of all MPH students and a minimum of 180 hours of field-work are expected. The student(s) who continues with PUBH 5123 will select and prepare a capstone project outline and select a faculty mentor prior to the end of this experience.		
PUBH 5123	FIELD PRACTICUM IN PUBLIC HEALTH II (3) This course is a continuation of PUBH 5122. An additional 180 hours of field-work are required for a total of 360 hours, PUBH 5122 and 5123. A capstone paper is required. Prerequisites: PUBH 5122	3	3
PUBH 5124	THESIS PROPOSAL (3) Students will define a public problem and initiate a research project under the supervision of a research mentor. The project will involve review of the literature, use of theoretical and conceptual frameworks, defined methodology for data collection, analysis, findings, discussion of implications and conclusion. A thesis proposal and an Institution Review Board (IRB) approval are expected at conclusion of this course. This course may be repeated not more than 6 credit hours. Prerequisites: PUBH 5117	3	3
PUBH 5125	THESIS RESEARCH AND DEFENSE (3) This course is a continuation of the PUBH 5124. Students will collect data, analyze findings, discuss implications and formulate conclusions for their thesis. Student(s) are required to formally present their findings and submit a publishable thesis. This course may be repeated not more than 6 credit hours. Prerequisites: PUBH 5124	3	3

PUBH 5126	BIOLOGICAL BASIS OF PUBLIC HEALTH (3) Course introduces concepts of disease and disease causation with emphasis on determinants, pathophysiology, social and behavioral factors. Describes both communicable and non-communicable disease distributions at the local, state and national levels with understanding of the three levels of prevention and communitybased intervention strategies for urban and underserved communities. The course is specifically designed for non-health science-oriented, graduate public health science students.	3	3
PUBH 5127	MANAGEMENT OF HEALTH CARE ORGANIZATION (3) Organizational structures, roles and service delivery of healthcare organizations such as for profits, non-profits (community based organizations), hospitals, long term facilities, nursing homes, home health agencies and the public sectors (public insurance, government public health sectors) are explored. Students will also learn some leadership	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	skills and problem solving techniques needed for successful management of diverse healthcare settings and bodies.		
PUBH 5128	HEALTH PROGRAM DESIGN, PLANNING AND EVALUATION (3) This course provides the theoretical foundations of program planning and evaluation (including needs assessment, program monitoring, and outcome evaluation), and their applications in public health. Students will design a program plan comprising goals, objectives, implementation, and evaluation. This course will also review theories and concepts from various disciplines i.e., philosophy, political science, law and economics. This course will be offered as an hybrid course. Prerequisite: PUBH 5116 Co-requisite: PUBH 5120	3	3
PUBH 5129	ENTREPRENEURSHIP IN HEALTH CARE (3) This course evaluates opportunities and threats to entrepreneurial endeavors in the health care industry. Explores strategies and designs for health care business development, marketing and financing. Prerequisites: PUBH 5110 and PUBH 5114	3	3

PUBH 5130	LEGAL AND REGULATORY ASPECTS OF PUBLIC HEALTH PRACTICE (3) The course focuses on legal obligations of healthcare providers to patients and legal issues relating to public health services given in local agencies, hospital/doctor malpractices, informed consent and patient's rights in response to state and federal laws. The course also explores the rights and wrongs of public health service provision with emphasis on the U.S. legal system and WHO health service requirements. Learning will include weekly case study examples on these issues by students to evaluate their legal understanding of the rules of Public Health Practice.	3	3
PUBH 5131	HEALTH ECONOMICS AND FINANCIAL MANAGEMENT (3) This course presents economic analysis and the use of managerial economics to study the health care system: demand for medical services; role of health insurance; productivity and cost measurement; labor markets and competition. It examines the principles, models and practical methods for the economic evaluation of health care services, the finance in health care and recent developments in financial management of health care organizations. Applications of financial management techniques to specific problems facing health care managers, budgeting, cost behavior and forecasting, revenue and expense analysis; and strategic planning in health care agencies will be discussed.	3	3
PUBH 5132	HIV/AIDS IN PEOPLE OF COLOR: EVIDENCE-BASED INTERVENTIONS (3) This course examines the racial and ethnic disparities in rates of transmission, incidence,	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	prevalence and mortality related to the HIV/AIDS epidemic at the local, national and global levels. Emphasis is placed on the unique and complex dynamics of the epidemic among racial and ethnic minorities in the United States and evidence-based interventions including diffusion of effective behavioral interventions to address HIV risk behaviors. It also discusses biomedical and environmental determinants of HIV infection, and public policy challenges and barriers to HIV prevention among communities of color. Prerequisites: PUBH 5113		
PUBH 5133	PUBLIC HEALTH ASPECT OF AGING (3) Examines the social, psychological, and physiological changes that occur with increasing age. Using a multidisciplinary approach, it discusses public health approaches to meeting the needs of older people and the public and private policies that affect older people and their families.	3	3

PUBH 5134	GLOBAL HEALTH (3) The historical evolution of global health will be explored. The health and economic implications of globalization will be explored from epidemiological perspectives. Emphasis is placed upon understanding of the problems of planning and managing WHO primary health care program particularly among people in developing nations where there are relatively high rate of infant mortality, protein energy malnutrition, financial constraints and weak public health infrastructures.	3	3
PUBH 5135	HEALTH CARE INFORMATICS (3) Introduction to health informatics involves a broad coverage of technology concepts underlying general computing and information management as it is applied to the continuum of healthcare delivery. Topics include computer networks, communications protocols, data architecture, Internet, basic computer security, database management, graphical user interfaces, client/server systems and enterprise applications. This course cannot be taken for credit by students who are health information managers.	3	3
PUBH 5140	HEALTH CARE INFORMATION SYSTEMS (3) Students will participate in an independent research project under the supervision of a research mentor. The project will focus on individual and community health interest and problems through literature search, defining of the problem, use of theoretical and conceptual framework, methodology for data collection, analysis, findings, discussion implications and conclusion. Prerequisites: Completion of all course work.	3	3
PUBH 5150	SCIENTIFIC WRITING SKILLS (1) This special session course provides students with the framework and core techniques necessary for effective grant proposal writing and research-related manuscript preparation through a combination of lecture, small group peer-review, and career development activities. Students will directly apply these strategies to their own grant	1	2

Course	Course Description	Credit Hrs.	Contact Hrs.
	proposal or manuscript works-in-progress. The goal of the course is to produce a grant or manuscript of sufficient quality to merit funding or publication, respectively. Prerequisite(s): Admission to MPH Program or consent of Chair.		

Quantitative Bus Anal (QBA)

Course	Course Description	Credit Hrs.	Contact Hrs.
QBA 1500	<p>INTRODUCTION TO QUANTITATIVE BUSINESS ANALYSIS (3)</p> <p>Introduction to basic business problem solving. The student will be introduced to basic quantitative business concepts and terminology, including time value of money analytics. Spreadsheet software will be used to solve quantitative problems and cases from six areas of business: accounting, finance, management, marketing, information systems and operations. The course will begin with a review of math and the use of spreadsheet software. A laptop computer with spreadsheet software (Microsoft Excel) is required for this course.</p> <p>Prerequisite: MATH 1200</p>	3	3
QBA 2000	<p>STATISTICS FOR BUSINESS (3)</p> <p>Beginning statistics with applications to business problems. Summary statistics including mean, median, standard deviation, outliers, etc. Tables and graphs including frequency tables, histograms, stem-and-leaf, etc. Probability distributions (binomial and normal). Expected value. Confidence intervals and tests of hypothesis about the population mean and proportion (z-test and t-test). Simple linear regression. Statistical software packages.</p> <p>Prerequisite: INSY 1370/137; MATH 1200/162 or consent of the department.</p>	3	3
QBA 3260	<p>DECISION ANALYSIS (3)</p> <p>The second course of the business statistics sequence. This course covers advanced statistical methods applying those methods to business problems including: TQM, SPC, control charts (x and p) and process capability. Computer applications and software packages are included.</p> <p>Prerequisite: MATH 1500/214; QBA 2000/200.</p>	3	3
QBA 3290	<p>ADVANCED DECISION MODELS (3)</p> <p>Methods of Assessing Probability Distributions, Non-Parametric Statistics, Risk Analysis, Expected Value Method, Payoff Table Approach, Test of Randomness, Bayesian Analysis of Decision, and Subjective Probability in Decision Making.</p> <p>Prerequisite: QBA 2000/200, 3260/226.</p>	3	3

QBA 3310	BUSINESS FORECASTING (3)	3	3
<p>This course covers regression analysis and forecasting of financial data. A review of random variables and their distribution, including expected values, covariance and variance of random variables, as well as, functions of random variables are properly treated. Half of the course covers ordinary least squares regression, with an emphasis on diagnostics and forecasting. Moving averages, smoothing methods and univariate time series models used in forecasting will be introduced in the second half. The course takes an algebraic approach with an emphasis on problem solving and forecasting and uses</p>			

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>statistical software for application and diagnostics testing.</p> <p>Prerequisite(s): QBA 2000/200 and FIN 2660/266</p>		
QBA 3330	SAMPLING IN THE BUSINESS ENVIRONMENT (3)	3	3
<p>Basic concepts of survey sampling with applications to business. Simple random samples, stratified sampling. Survey design including questionnaire and sample size determination. Inference about population means and proportions via confidence intervals with emphasis on "margin of error." Class project will include a survey design followed by data collection, analysis and report.</p> <p>Prerequisite: QBA 2000/200; MATH 1400/209; MGMT 3240/224.</p>			
QBA 3350	SIMULATION (3)	3	3
<p>An introduction to the concepts of simulation techniques and their application to the analysis of business systems. Use of the computer to solve simulation problems. Simulation is an advanced course for quantitative methods of analysis, one that is particularly useful in predicting action, requirements, and costs in situations of risk and uncertainty.</p> <p>Prerequisite: MATH 1400/ 209, INSY 1360/ 136; QBA 2000/ 200 and MGMT 3240/ 224.</p>			

QBA 3500	<p>QUANTITATIVE BUSINESS APPLICATIONS (3)</p> <p>This is a computer intensive course using StatTools and @RISK from Palisades Corporation. Both StatTools and @RISK operate within an Excel spreadsheet. The covered topics include a brief summary of the material from QBA 2000/200 but now the statistical problem solving will be done on the computer, using StatTools and @RISK. The new topics will include regression, time series, and quality control, and Monte Carlo Simulation, to name a few. This course uses a "hands on" approach with the technology of computerized software. Class sizes are small because a large amount of class time will be of an interactive nature. Think of the professor as a coach guiding the student through the statistical "drills" with commentary on the data, assumptions and underlying theory. The goal here is to reach optimal business decisions under uncertainty.</p> <p>Prerequisite: QBA 2000/200</p>	3	3
QBA 5001	<p>FUNDAMENTALS OF QUANTITATIVE BUSINESS ANALYSIS (3)</p> <p>Introduction of statistical concepts in the business setting. Using these concepts and statistics, the student will be able to design studies, collect data, summarize this data, and then test hypotheses and construct confidence intervals on population parameters to reach correct statistical decisions. Emphasis will be on the practice of business statistics, that is, the interpretation of the data rather than rote calculation. Additionally, the course will cover the use of quantitative analytical techniques to reach optimal business decisions under uncertainty; topics will include regression analysis, time series, quality control, and Monte Carlo Simulation.</p>	3	3

Reading (READ)

Course	Course Description	Credit Hrs.	Contact Hrs.
READ 1500	<p>ADVANCED COLLEGE READING SKILLS (3)</p> <p>Provides student with college level reading skill development divided into three components: (1) advanced vocabulary building; (2) critical reading in subject areas; and (3) study skills. Laboratory session: application of course content in small group sessions or computer assisted instruction.</p>	3	3
READ 3700	<p>FOUNDATIONS IN READING INSTRUCTION (3)</p> <p>Language, language acquisition, cognitive development and cultural/social class influences on learning as related to vocabulary and comprehension instruction. Theoretical concepts and practical application of the reading process are examined.</p> <p>Prerequisite: ELCF 1520/152; successful completion of university placement exams in English and reading.</p>	3	3

READ 4000	TEACHING BEGINNING READING (3) Study of the concept of reading readiness and the methods, materials and skills employed in the teaching of beginning reading. Prerequisite: Admission to the College of Education.	3	3
READ 4100	CONTENT READING FOR MIDDLE AND SECONDARY SCHOOL TEACHERS /3 (2) Strategies for teaching content area reading, exploring instruction with a focus on middle and secondary grade learners. Pre-service teachers practice incorporating content knowledge with principles of effective lesson planning and instruction. Prerequisite: Admission to the College of Education	2	3
READ 4114	METHODS OF TEACHING READING IN THE ELEMENTARY SCHOOL (4) Research based practices in teaching reading in the elementary classroom. Examination of a variety of methods and materials for teaching reading and developing literacy. Emphasis placed on theoretical foundations for reading strategies, differentiated instruction, classroom set-up, and management of the literacy block. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary reading class or block, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 4114, READ 4280 or READ 4291. Prerequisite(s): Admission to the College of Education; completion of natural sciences requirement; ELED 3010/201 or BIL 4001 or BIL 2000/200 and READ 3700/270 or BIL 4003 or BIL 4100/3100/365.	4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
READ 4140	READING DIAGNOSIS AND REMEDIATION FOR THE CLASSROOM TEACHER (3) Provides an overview of reading and reading problems. Examines factors associated with reading disability. Candidates give both formal and informal assessments. Assessment linked to instructional and intervention strategies. Clinical practices adapted for classroom use. Credit will be given for only one of the following: READ 4140/330 or READ 4160/370.	3	3

READ 4150	FOUNDATIONS OF TEACHING READING TO DIVERSE POPULATIONS (3) Examination of the special linguistic and other cultural factors that affect the teaching of reading to diverse populations. Research-based methods, strategies and materials will be compared and contrasted. Assessment practices will be evaluated as to their appropriateness for this specialized group of readers. Literature that reflects the language and culture of diverse populations and non-fiction works that celebrate the accomplishments of persons of similar backgrounds will be examined.	3	3
READ 4160	READING ASSESSMENT FOR CLASSROOM TEACHERS (3) Outcomes-based assessment, reading assessments, and instructional implications of assessments are studied. Administration and interpretation of selected assessment instruments. Writing emphasis course. Prerequisite: READ 3700/270 or BIL 4150/350; admission to the College of Education.	3	3
READ 4170	CLINICAL PRACTICE: READING INSTRUCTION (3) A clinical practicum in which students pre-assess reading deficiencies, implement appropriate remediation activities twice per week for 6 weeks, post-assess to determine growth, and make recommendations for further instruction. Prerequisites: READ 4160/370 or READ 4140/330; admission to the College of Education	3	3
READ 4180	MATERIALS IN READING (3) Published reading and audiovisual materials analyzed and developed for use in teaching reading.	3	3
READ 4210	WORKSHOP IN READING INSTRUCTION (1-3) Provides pre-service and in-service teachers with knowledge of methods of reading instruction in three areas: (1) word recognition, (2) vocabulary, and (3) comprehension. Each area is one credit hour. Student may register for one, two, or three credit hours. Prerequisite: Admission to the College of Education.	1	1
READ 4280	TEACHING READING IN THE ELEMENTARY SCHOOL /4/ FIELD (3) Research based practices in teaching reading in the elementary classroom (K-8). Examination of a variety of methods and materials for teaching reading and developing	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>literacy. Emphasis placed on theoretical foundations for reading strategies, differentiated instruction, classroom set-up, and management of the literacy block. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (reading must be taught that day), for eight weeks in a classroom; Option B: fifteen hours in a reading classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 4280/308, ELED 208, 308, 308G, READ 4291/350.</p> <p>Prerequisites: Admission to the College of Education; completion of natural sciences requirement; ELED 3010/201 or BIL 2000/200, and READ 3700/270 or BIL 4150/350.</p>		
READ 4290	<p>READING INSTRUCTION IN THE ELEMENTARY SCHOOL (3)</p> <p>Knowledge of reading and language acquisition and processes; current instructional practices and materials (grades 1 through 8).</p> <p>Prerequisite: Admission to the College of Education.</p>	3	3
READ 4291	<p>TEACHING READING IN THE MIDDLE SCHOOL /4/ FIELD (3)</p> <p>Research based practices in teaching reading in the middle level classroom (6-8). Examination of a variety of methods and materials for teaching reading and literacy. Emphasis placed on theoretical foundations for reading strategies for continued development and for content reading, differentiated instruction, classroom set-up and management of the literacy block. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (reading/literacy must be taught that day), for eight weeks in a classroom; Option B: fifteen hours in a reading/literacy classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 4280/308, READ 5280/308G, ELED 208, 309, 309G, READ 4291/350, READ 5291/350G.</p> <p>Prerequisites: Admission to the College of Education; READ 3700/270 or BIL 4150/350; Completion of one of the following: ELCF 4440/344; ELED 3010/201 or BIL 2000/200.</p>	3	4
READ 5000	<p>TEACHING BEGINNING READING (3)</p> <p>Study of the concept of reading readiness and the methods, materials, and skills employed in the teaching of beginning reading.</p> <p>Prerequisite: Admission to the College of Education.</p>	3	3
READ 5092	<p>READING CERTIFICATION REVIEW (1)</p> <p>This course is an elective designed to assist students in passing the inois Certification Examination. This course may not be counted for degree credit.</p>	1	3
READ 5100	<p>CONTENT READING FOR MIDDLE AND SECONDARY SCHOOL TEACHERS /3/ (2)</p> <p>Strategies for teaching content area reading, exploring instruction with a focus on middle and secondary grade learners. Pre-service teachers practice incorporating content</p>	2	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>knowledge with principles of effective lesson planning and instruction.</p> <p>Prerequisite: Admission to the College of Education</p>		
READ 5114	<p>METHODS OF TEACHING READING IN THE ELEMENTARY SCHOOL (4)</p> <p>Research based practices in teaching reading in the elementary classroom. Examination of a variety of methods and materials for teaching reading and developing literacy. Emphasis placed on theoretical foundations for reading strategies, differentiated instruction, classroom set-up and management of the literacy block. Required field experience of tutoring and/or whole class teaching. Field component requires ten (10) hours in an elementary reading class or block, minimum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 5114, READ 5280 or READ 5291.</p> <p>Prerequisite(s): Admissions to the College of Education; completion of natural sciences requirement; ELED 3010 or BIL 5001 and READ 3700 or BIL 5003.</p>	4	4
READ 5140	<p>READING DIAGNOSIS AND REMEDIATION FOR THE CLASSROOM TEACHER (3)</p> <p>Provides an overview of reading and reading problems. Examines factors associated with reading disability. Candidates give both formal and informal assessments. Assessment linked to instructional and intervention strategies. Clinical practices adapted for classroom use. Credit will be given for only one of the following: READ 4140/330 or READ 4160/370.</p>	3	3
READ 5150	<p>FOUNDATIONS OF TEACHING READING TO DIVERSE POPULATIONS (3)</p> <p>Examination of the special linguistic and other cultural factors that affect the teaching of reading to diverse populations. Research-based methods, strategies and materials will be compared and contrasted. Assessment practices will be evaluated as to their appropriateness for this specialized group of readers. Literature that reflects the language and culture of diverse populations and non-fiction works that celebrate the accomplishments of persons of similar backgrounds will be examined.</p>	3	3
READ 5160	<p>READING ASSESSMENT FOR CLASSROOM TEACHERS (3)</p> <p>Outcomes-based assessment, reading assessments, and instructional implications of assessments are studied. Administration and interpretation of selected assessment instruments. Writing intensive course.</p> <p>Prerequisite: READ 3700/270 or BIL 5150/350G; admission to the College of Education.</p>	3	3

READ 5170	CLINICAL PRACTICE: READING INSTRUCTION (3) A clinical practicum in which students pre-assess reading deficiencies, implement appropriate remediation activities twice per week for 6 weeks, post-assess to determine growth, and make recommendations for further instruction. Prerequisites: READ 4160/370 or READ 4140/330; admission to the College of Education	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
READ 5180	MATERIALS IN READING (3) Published reading and audiovisual materials analyzed and developed for use in teaching reading.	3	3
READ 5200	LANGUAGE & LITERACY IN URBAN SETTINGS (3) Includes the study of the linguistic and cognitive theories and research that are bases for current directions in reading instruction and material design. Prerequisite: Restricted to master's degree candidates or consent of the department.	3	3
READ 5210	ESSENTIAL READINGS & RESEARCH PROCESSES FOR LITERACY (4) Current theory and literacy research on the development and implementation of integrated literacy curricula, the socio-cultural and socio-political issues of literacy learning, and the history of literacy practices and instruction. Includes the development of a refined literature review. Prerequisite: Admission to program/consent of the department.	4	4
READ 5220	COMPREHENDING WRITTEN LANGUAGE: THEORY AND RESEARCH (3) Employs a literacy coaching model with teachers and paraprofessionals to implement metacognitive strategies that aid in making the theoretical connection between reading comprehension and writing processes. Literacy coach candidates will facilitate the development of professional study groups. Credit not given for both READ 5220 and READ 410. Prerequisite: Admission to program/consent of the department	3	3

READ 5230	BEST PRACTICES IN EMERGENT LITERACY (3) Foundational introduction to literacy coaching in school-based settings. Candidates will consider their role as literacy coaches in preparation for working with classroom teachers / paraprofessionals in the theoretical, research, and pedagogical issues of emergent literacy learning practices. Explores reading/writing development, home and cultural influences on literacy development, the relationship between socio-cognitive development and literacy learning, and technology integration. Outcomes include lesson plan development following a program approved framework and a report addressing the connection between instructional planning and literacy coaching. Prerequisite: Admission to program/consent of the department.	3	3
READ 5240	BEST PRACTICES IN CONTENT AREA READING /FIELD/ (3) Examination of content area / disciplinary literacy theory. Candidates will complete school-based literacy coaching in content area classrooms thereby applying the theory that supports the successful implementation of strategies in dealing with content area texts. Includes self-evaluative and professional development participant evaluation of	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	candidate coaching. Credit not given for READ 5240 and READ 408. Noncertified teachers will complete twenty (20) hours of required tutoring and program candidates will complete literacy coaching. Prerequisite: Admission to program/consent of the department		
READ 5250	CLINICAL PRACTICES I: ASSESSMENT OF READING DISABILITIES /6/ FIELD (4) A comprehensive study and practice of formal and informal assessment techniques, theory, research and teaching strategies relative to reading disabilities. Thirty-five clock hours of testing per term. Prerequisite: Consent of the department	4	6
READ 5260	CLINICAL II: REMEDIATION STRATEGIES /6/ FIELD (4) Design and implementation of individual remedial programs for elementary and high school students based on assessment results. Candidates will engage in clinical coaching by assisting school-based personnel toward the implementation of remediation plans relative to assessment data and evaluation. Sixty-five (65) clock hours of teaching and testing per term. Credit not given for both READ 5260 and READ 402. Prerequisites: Admission to program/consent of the department.	4	6

READ 5270	CURRICULUM AND SUPERVISION IN READING (3) Formation of professional study groups with teachers and paraprofessionals to examine reading curricula, programmatic planning, development and implementation, as well as evaluation and supervision of reading, literacy, and language instruction across grade levels P-12. Prerequisite: Restricted to master's degree candidates or consent of the department.	3	3
READ 5280	TEACHING READING IN THE ELEMENTARY SCHOOL /4/ FIELD (4) Research based practices in teaching reading in the elementary classroom (K-8). Examination of a variety of methods and materials for teaching reading and developing literacy. Emphasis placed on theoretical foundations for reading strategies, differentiated instruction, classroom set-up, and management of the literacy block. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (reading must be taught that day), for eight weeks in a classroom; Option B: fifteen hours in a reading classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 4280/308, READ 5280/308G, ELED 208, 308, 308G, READ 4291/350, READ 5291/350G. Prerequisites: Admission to the College of Education; completion of natural sciences requirement; ELED 3010/201 or BIL 2000/200, and READ 3700/270 or BIL 4150/350 and BIL 5150/350G	3	3
READ 5290	READING INSTRUCTION IN THE ELEMENTARY SCHOOL (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Knowledge of reading and language acquisition and processes; current instructional practices and materials (grades 1 through 8).</p> <p>Prerequisite: Admission to the College of Education.</p>		

READ 5291	TEACHING READING IN THE MIDDLE SCHOOL /4/ FIELD (4) Research based practices in teaching reading in the middle level classroom (6-8). Examination of a variety of methods and materials for teaching reading and literacy. Emphasis placed on theoretical foundations for reading strategies for continued development and for content reading, differentiated instruction, classroom set-up and management of the literacy block. Required field experience tutoring and/or whole class teaching Option A: one full-day, one day per week (reading/literacy must be taught that day), for eight weeks in a classroom; Option B: fifteen hours in a reading/literacy classroom, maximum of two hours per visit, maximum of two visits per week. Credit will be given for only one of the following: READ 4280/308, READ 5280/308G, ELED 208, 309, 309G, READ 4291/350, READ 5291/350G. Prerequisites: Admission to the College of Education; READ 3700/270 or BIL 5150/350/G; Completion of one of the following: ELCF 4440/344; ELED 3010/201 or BIL 2000/200.	4	4
READ 5300	WORKSHOP IN READING INSTRUCTION (1-3) Provides preservice and inservice teachers with knowledge of methods of reading instruction in three areas: word recognition, vocabulary, and comprehension. Each area is one credit hour. Students may register for one, two, or three credit hours. Prerequisite: Admission to the College of Education.	1	1
READ 5310	BEST PRACTICES IN MIDDLE SCHOOL READING (3) Middle school philosophy and specific reading practices geared to the middle school learner. Emphasis is on best practices in instructional planning and preparation, interactive learning strategies and assessment. Prerequisite: Valid State of Illinois Teaching Certificate.	3	3
READ 5530	THEORIES AND FOUNDATIONS OF READING INSTRUCTION RESEARCH (3) Theoretical principles of educational research with a focus on literacy, language, and reading topics. Candidates coach classroom teachers through the action research process, develop a related proposal and implement a mini-pilot research study in collaboration with the teacher study group. Topics addressed in the development of the action research proposal include literacy coaching, instructional assessment processes, and materials selection. Candidates will facilitate professional study groups. Prerequisites: Restricted to master's degree candidates in the Graduate Reading Program.	3	3
READ 5550	SEMINAR IN READING (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Development of the reflective critical practitioner through the compilation of a culminating electronic portfolio that provides evidence of literacy coaching completed throughout the program. Coaching models included are foundational knowledge, university-based peer coaching, and school-based and community-based literacy coaching. Credit not given for READ 5550 and READ 454.</p> <p>Prerequisites: Completion of all required courses for the Master's degree in the Teaching of Reading.</p>		
READ 5560	<p>MASTER'S THESIS/PROJECT (4)</p> <p>Writing of thesis or project for the master's degree in the Teaching of Reading.</p> <p>Prerequisite: Completion of READ 5440/444 and all required courses for the master's degree in the Teaching of Reading.</p>	4	4

Recreation (REC)

Course	Course Description	Credit Hrs.	Contact Hrs.
REC 1000	<p>INTRODUCTION TO LEISURE SERVICES (3)</p> <p>Introduction to concepts, definitions and central issues relevant to reaction and leisure. Exploration of factors influencing leisure. Overview of the delivery of leisure and recreation services. Ten hours field experience required.</p>	3	3
REC 2000	<p>PROGRAM PLANNING FOR LEISURE SERVICES (3)</p> <p>Study of the principles and planning of leisure experiences and recreation programs. Emphasis is placed on leisure activities and factors that affect implementation and function. Laboratory experience required.</p>	3	3
REC 2010	<p>PHILOSOPHY OF LEISURE AND RECREATION (3)</p> <p>Study of the philosophical foundations of leisure, recreation and planning, which encompass the historical development of the field of recreation. Introduction to the literature and critical examination of leisure concepts and theories. Writing emphasis course.</p> <p>Prerequisite: Completion of English 1230/123 or 1270127.</p>	3	3
REC 2050	<p>EXPLORING LEISURE ALTERNATIVES IN URBAN SETTINGS (3)</p> <p>Development of a foundation from which students can build meaningful attitudes and behavior patterns regarding their non-work lives. Students will participate in a variety of leisure activities within the urban community.</p>	3	3
REC 2070	<p>USE OF TECHNOLOGY FOR PHYSICAL EDUCATION AND RECREATION PROFESSIONAL/4 (3)</p> <p>Application of computer technology use for the physical education teacher and the recreational professional. Use of word processing, spread sheet, presentation software, web page building, grading software, and other profession-specific software.</p>	3	4
REC 2200	<p>LEADERSHIP AND SUPERVISION IN LEISURE AND RECREATION (3)</p> <p>Development of operational skills in leadership, group dynamics, and supervision, using traditional instruction as well as experiential learning opportunities. Investigation of board and commission relationships, the political processes, and the public relations aspect of the recreation supervisor. Ten hours field experience required.</p> <p>Prerequisite: Consent of Department</p>	3	3

REC 2300	OUTDOOR RECREATION AND TEAM BUILDING (3) Exposure to outdoors and environmental recreation activities and how to incorporate those activities into traditional physical education and recreational settings. Includes teambuilding and adventure activities and how to design programs and courses. Laboratory experience required.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: ENG 1280/128; PE 2140/214, 2380/238, 2390/239, 2010/201.		
REC 2360	AQUATICS FOR PHYSICAL EDUCATION AND RECREATION PROFESSIONALS ACTIVITY /4 (2) This course is designed for physical education and recreation majors who may be expected to teach aquatics. It includes progressive swimming instruction, observation and participation in other aquatic activities and peer teaching. Students have option to apply for Red Cross Water Safety Instructor Certification. Credit not given for both PE 2360/236 and REC 2360/236. Prerequisite: Intended physical education and recreation majors.	2	4
REC 2580	LEISURE PROGRAMMING FOR ADULTS IN LATER LIFE /FIELD (3) Investigation of changes in the psychological, cognitive, sociological and physical characteristics of people as they age. Study of principles and planning of leisure experience and recreation programming for adults in later life. Twenty hours directed field experience in the community in a recreational setting.	3	3
REC 3270	LEISURE AND YOUTH AT RISK (3) Exploration of what it means to be classified as "youth at risk" and the potential benefits and negatives of leisure for this group. Emphasis on understanding the benefits of leisure, means of facilitating a positive leisure lifestyle, analysis of leisure-related behavior problems, and recreation program development and implementation. Laboratory experience required.	3	3
REC 3310	PRINCIPLES AND CLINICAL PRACTICES IN THERAPEUTIC RECREATION/FIELD (3) Focus on therapeutic recreation content and process. Analysis of clinical intervention techniques and strategies, including treatment techniques, leisure education and role of recreation participation in the treatment process. Twenty hours field experience. Prerequisite: REC 4300/330 or consent of the instructor.	3	3

REC 3410	THERAPEUTIC RECREATION AND INCLUSION (3) In depth look at inclusion. Exploration of the role of the therapeutic recreation specialist and the leisure professional in creating an inclusive environment. Course includes exploration of philosophy of inclusion, means and techniques for inclusion, review of pertinent legislation, facility and program accessibility and introduction to assistive technology.	3	3
REC 3980	SPECIAL TOPICS IN LEISURE AND RECREATION /16 - 48 (3) Selected issues and problems that have contemporary significance in leisure and recreation. May be repeated for credit. (A maximum of three credit hours may be applied to the degree.)	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
REC 3990	INDEPENDENT STUDY IN LEISURE AND RECREATION (1-3) In-depth study to develop greater competency in a specific learning area or specific topic. In cooperation with the instructor, students arrange the focus and direction of the arranged activities. This course may also serve to assist the student in improving areas of deficiency. Prerequisite: Consent of the department.	1	1
REC 4000	FACILITY MANAGEMENT AND DESIGN (3) Introduction to the basic concepts of leisure facility planning and design and examination of the relationship between facility design and operational management. Examination of issues pertaining to the design and management of public and private open spaces and facilities.	3	3
REC 4070	CHILDREN AND YOUTH IN SPORT AND RECREATION /3 (3) The consequence of participation in organized sport for children and youth will be examined from historical, developmental, philosophical, psychological, physiological and sociological perspectives. The course will focus on the ethics, problems and controversies of children's participation in sport. Credit will not be given for both PE 5077/307G and REC 5070/307G.	3	3
REC 4100	COMMERCIAL RECREATION (3) An introduction of business requirements for viability in market-sector provisions, discussion of the scope and administrative function of for-profit leisure and recreation enterprises, including an analysis of planning, controlling, and developing such enterprises.	3	3

REC 4240	MANAGEMENT OF LEISURE SERVICE DELIVERY SYSTEMS (3) An examination of the critical functions of a manager in public and private leisure service organizations. Particular topics include goal and policy development, supervision, ethics, risk management, fiscal management, and facility operations. Prerequisite: REC 1000/100, 2000/200, and 2200/220 or consent of department.	3	3
REC 4250	LEISURE IN A MULTICULTURAL SOCIETY (3) Comparison of system of recreation and leisure from different cultural settings to promote a further understanding of the recreation discipline on a worldwide scale. The structure of this course will involve three dimensions of comparative analysis of recreation: historical, philosophical and sociological.	3	3
REC 4280	EDUCATION FOR LEISURE (3) Theories, models and techniques for leisure education. An overview of leisure and the rationale for leisure education. Course will address leisure education for a wide variety of populations in settings such as park districts, schools, human service agencies and clinical settings. Course will include the design of leisure education materials and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	programs. Laboratory experience required.		
REC 4300	OVERVIEW OF THERAPEUTIC RECREATION SERVICES/FIELD (3) Exploration of therapeutic recreation in community and clinical settings. An overview of the philosophical concepts of therapeutic recreation pertinent legislation and different disability groups. Awareness of the roles of the therapeutic recreation specialist, other leisure services providers, and human service providers in addressing the needs of persons with disabilities. Ten hours field experience.	3	3
REC 4320	PROGRAM DESIGN AND EVALUATION IN THERAPEUTIC RECREATION (3) Systematic approach to the development and design of therapeutic recreation programs from conceptualization to evaluation. This will equip the student with skills necessary to systematically design and evaluate programs using various systems techniques.	3	3
REC 4400	COMMUNITY RECREATION (3) A study of the contemporary and historical role and interrelationships of public, private, and nonprofit community-based recreation and park agencies. This includes park and recreation departments, youth serving agencies, special recreation opportunities, and leisure businesses.	3	3

REC 4430	ADMINISTRATION OF THERAPEUTIC RECREATION SERVICES (3) Emphasis on information which is specific to the administration of therapeutic recreation services. Topics including fiscal management, quality assurance, evaluation and the marketing of therapeutic recreation as well as general administration will be discussed. Prerequisite: REC 4300/330 or consent of the department.	3	3
REC 4440	ISSUES, TRENDS AND CONTEMPORARY PROBLEMS IN THERAPEUTIC RECREATION (3) Critical issues and trends in therapeutic recreation. Contemporary problems will be discussed. Role of the leisure professional in the contemporary therapeutic recreation setting. Funding, ethics, and legal responsibilities in public and private leisure settings as well as clinical agencies. Prerequisite: REC 4300/330 or consent of the department.	3	3
REC 4500	PROGRAM EVALUATION AND RESEARCH IN LEISURE AND RECREATION (3) Overview of research concepts, approaches, methods, and techniques relevant to recreation and leisure services. Emphasis on program evaluation and needs assessment. Exploration of current research, development of a research proposal, and participation in the design and implementation of a class research project. Fulfills the requirement for the Senior Thesis/Capstone Project.	3	3
REC 4540	SEMINAR AND METHODS FOR RECREATION FIELD/50 CLOCK HOURS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Introduction to field experience including techniques, methods and practices used. Exposure to practical application issues and trends in various recreation settings via readings, site visits, field work, guest speakers and interaction with practitioners. Identification of potential field work sites. Development of portfolio. Writing emphasis course. Prerequisite: REC 1000/100, 2000/200, 2200/220 and ENG 1240/124 or 1280/128 or consent of the department.		

REC 4750	FIELD EXPERIENCE AND COMMUNITY RECREATION/PROFESSIONAL INVOLVEMENT FIELD FOUR AND ONE HALF DAYS/SEMINAR ONE HALF DAY/16 WEEKS (9) Supervised professional field work experience plus additional requirements. Provides opportunity for practical application of classroom theory in professional field work. Experience in recreation planning, leadership, supervision, and program evaluation. No other course may be taken during the semester this course is taken. Prerequisite: REC 4540/354 and consent of department.	9	9
REC 4850	ADVENTURE CHALLENGE EDUCATION IN RECREATION AND PHYSICAL EDUCATION (3) Use of a variety of leisure education environments for teaching and leading group activities in physical education and recreation, emphasizing trust, cooperation, problem solving, and physically challenging experiences.	3	3
REC 5000	FACILITY MANAGEMENT & DESIGN (3) Introduction to the basic concepts of leisure facility planning and design and examination of the relationship between facility design and operational management. Examination of issues pertaining to the design and management of public and private open spaces and facilities.	3	3
REC 5070	CHILDREN AND YOUTH IN SPORT AND RECREATION (3) The consequences of participation in organized sport for children and youth will be examined from historical, developmental, philosophical, psychological, physiological, and sociological perspectives. The course will focus on the ethics, problems, and controversies of children's participation in sport. Credit not given for both PE 5077/307G and REC 5070/307G.	3	3
REC 5100	COMMERCIAL RECREATION (3) An introduction of business requirements for viability in market-sector provisions, discussion of the scope and administrative function of for-profit leisure and recreation enterprises, including an analysis of planning, controlling, and developing such enterprises.	3	3
REC 5240	MANAGEMENT OF LEISURE SERVICE DELIVERY SYSTEMS (3) Strengthens the students' knowledge of the public administration of recreation programs	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	and services provided by municipal, county, state and national departments and agencies as related to the general well-being of individuals, families and communities. Prerequisite: REC 1000/100, 2000/200, and 2200/220 or consent of department.		

REC 5250	LEISURE IN A MULTICULTURAL SOCIETY (3) Comparison of system of recreation and leisure from different cultural settings to promote a further understanding of the recreation discipline on a worldwide scale. The structure of this course will involve three dimensions of comparative analysis of recreation: historical, philosophical and sociological.	3	3
REC 5270	LEISURE AND YOUTH AT RISK (3) Exploration of what it means to be classified as "youth at risk" and the potential benefits and negatives of leisure for this group. Emphasis on understanding the benefits of leisure, means of facilitating a positive leisure lifestyle, analysis of leisure-related behavior problems, and recreation program development and implementation. Laboratory experience required.	3	3
REC 5280	EDUCATION FOR LEISURE (3) Theories, models and techniques for leisure education. An overview of leisure and the rationale for leisure education. Course will address leisure education for a wide variety of populations in settings such as park districts, schools, human service agencies and clinical settings. Includes the design of leisure education materials and programs. Laboratory experience required.	3	3
REC 5300	OVERVIEW OF THERAPEUTIC RECREATION SERVICES /FIELD (3) Exploration of therapeutic recreation in community and clinical settings. An overview of the philosophical concepts of therapeutic recreation pertinent legislation and different disability groups. Awareness of the roles of the therapeutic recreation specialist, other leisure services providers, and human service providers in addressing the needs of persons with disabilities. Ten clock hours in field.	3	3
REC 5310	PRINCIPLES AND CLINICAL PRACTICES IN THERAPEUTIC RECREATION/FIELD (3) Focus on therapeutic recreation content and process. Analysis of clinical intervention techniques and strategies, including treatment techniques, leisure education and role of recreation participation in the treatment process. Twenty clock hours in field. Prerequisite: REC 4300/330 or consent of the instructor.	3	3
REC 5320	PROGRAM DESIGN AND EVALUATION IN THERAPEUTIC RECREATION (3) Systematic approach to the development and design of therapeutic recreation programs from conceptualization to evaluation. This will equip the student with skills necessary to systematically design and evaluate programs using various systems techniques.	3	3
REC 5400	COMMUNITY RECREATION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	A study of the contemporary and historical role and interrelationships of public, private, and nonprofit community-based recreation and park agencies. This includes park and recreation departments, youth serving agencies, special recreation opportunities, and leisure businesses.		
REC 5410	THERAPEUTIC RECREATION AND INCLUSION (3) In depth look at inclusion. Exploration of the role of the therapeutic recreation specialist and the leisure professional in creating an inclusive environment. Course includes exploration of philosophy of inclusion, means and techniques for inclusion, review of pertinent legislation, facility and program accessibility and introduction to assistive technology.	3	3
REC 5430	ADMINISTRATION OF THERAPEUTIC RECREATION SERVICES (3) Emphasis on information which is specific to the administration of therapeutic recreation services. Topics including fiscal management, quality assurance, evaluation, and the marketing of therapeutic recreation as well as general administration. Prerequisite: REC 5300/330 and consent of the department.	3	3
REC 5440	ISSUES, TRENDS AND CONTEMPORARY PROBLEMS IN THERAPEUTIC RECREATION (3) Critical issues and trends in therapeutic recreation. Contemporary problems will be discussed. Role of the leisure professional in the contemporary therapeutic recreation setting. Funding, ethics and legal responsibilities in public and private leisure settings as well as clinical agencies.	3	3
REC 5500	PROGRAM EVALUATION AND RESEARCH IN LEISURE AND RECREATION (3) Overview of research concepts, approaches, methods, and techniques relevant to recreation and leisure services. Emphasis on program evaluation and needs assessment. Exploration of current research, development of a research proposal, and participation in the design and implementation of a class research project. Prerequisite: REC 1000/100, 2000/200, and Math elective.	3	3
REC 5540	SEMINAR AND METHODS FOR RECREATION /FIELD (3) Introduction to field experience including techniques, methods and practices used. Exposure to practical application issues and trends in various recreation setting via readings, site visits, field work (fifty hours), guest speakers and interaction with practitioners. Identification of potential field work sites. Development of portfolio. Prerequisite: REC 1000/100, 2000/200, 2200/220 and ENG 1240/124, 1280128 or consent of department.	3	3
REC 5750	FIELD EXPERIENCE AND COMMUNITY RECREATION/PROFESSIONAL INVOLVEMENT /FIELD (9)	9	9

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Supervised professional field work experience plus additional requirements. Provides opportunity for practical application of classroom theory in professional field work.</p> <p>Experience in recreation planning, leadership, supervision, and program evaluation. Five full days including seminar for 16 weeks. No other course may be taken during the semester this course is taken.</p> <p>Prerequisite: REC 5540/354G and consent of department.</p>		
REC 5850	<p>ADVENTURE CHALLENGE EDUCATION IN RECREATION AND PHYSICAL EDUCATION (3)</p> <p>Use of a variety of leisure education environments for teaching and leading group activities in physical education and recreation, emphasizing trust, cooperation, problem solving, and physically challenging experiences. (This course is the same as PE 395.)</p>	3	3
REC 5990	<p>INDEPENDENT STUDY IN LEISURE AND RECREATION (3)</p> <p>In-depth study to develop greater competency in a specific learning area or specific topic. In cooperation with the instructor, students arrange the focus and direction of the arranged activities. This course may also serve to assist the student in improving areas of deficiency.</p> <p>Prerequisite: Consent of the department.</p>	1	1

Russian (RUSS)

Course	Course Description	Credit Hrs.	Contact Hrs.
RUSS 1010	ELEMENTARY RUSSIAN I (3) Oral-aural mastery of Russian grammar and vocabulary. Readings of simple texts.	3	4
RUSS 1020	ELEMENTARY RUSSIAN II (3) Continuation of Russian 101. Prerequisite: Russian 1010/101 or consent of department.	3	4
RUSS 1200	RUSSIAN CULTURE AND CONVERSATION (3) Everyday Russian conversation and an overview of Russian culture including art, music and literature in translation.	3	3

Study Abroad (S AB)

Course	Course Description	Credit Hrs.	Contact Hrs.
S AB 3960	<p>STUDY ABROAD: COLLEGE OF HEALTH SCIENCES (1-16)</p> <p>Coursework undertaken as part of an approved university study abroad program. Coursework to be completed abroad and must be approved in advance by department. May be repeated for a maximum of 32 credit hours.</p> <p>Prerequisite: One year of residence at CSU, good academic standing, prior approval by the major department and by the college.</p>	0	0
S AB 4720	<p>ADVANCED STUDY ABROAD: SPECIAL TOPICS (3)</p> <p>Historical topics related to an approved university study abroad program. To be completed prior to participation in the study abroad program. May be repeated under different topics for a total of six (6) credit hours.</p> <p>Prerequisites: Junior, senior, or graduate students. Good academic standing and consent of department.</p>	3	3
S AB 4730	<p>STUDY ABROAD: ADVANCE RESEARCH IN HISTORY I (1-6)</p> <p>Coursework undertaken as part of an approved university study abroad program. May be repeated for up to a maximum of 12 credit hours.</p> <p>Prerequisites: Junior or Senior status, good academic standing and consent of department.</p>	1	1
S AB 4740		3	3
S AB 4980	<p>STUDY ABROAD: EDUCATION (0-16)</p> <p>Course work undertaken as part of an approved university study abroad program. Course work to be completed abroad must be approved in advance by department. May be repeated for a maximum of 32 credit hours.</p>	0	
S AB 4990	<p>STUDY ABROAD: ARTS & SCIENCES (0-16)</p> <p>Course work undertaken as part of an approved university study abroad program. Course work to be completed abroad must be approved in advance by department. May be repeated for a maximum of 32 credit hours.</p> <p>Prerequisite: One year of residence at CSU, good academic standing, prior approval by the major department and by the College of Arts and Sciences.</p>	0	

S AB 5720	ADVANCED STUDY ABROAD: SPECIAL TOPICS (3) Historical topics related to an approved university study abroad program. To be completed prior to participation in the study abroad program. May be repeated under different topics for a total of six (6) credit hours. Prerequisites: Junior, senior, or graduate students. Good academic standing and consent	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	of department.		
S AB 5730	STUDY ABROAD: ADVANCED RESEARCH IN HISTORY I (1-6) Coursework undertaken as part of an approved university study abroad program. May be repeated to a maximum of 12 credit hours. Prerequisites: Graduate status. Good academic standing and consent of department.	1	1
S AB 5740	STUDY ABROAD: ADVANCED RESEARCH IN HISTORY II (1-6) Coursework undertaken as part of an approved university study abroad program. May be repeated to a maximum of 12 credit hours. Prerequisites: Junior, senior , or graduate status. Good academic standing and consent of department.	3	3
S AB 5980	STUDY ABROAD: EDUCATION (0-16) Course work undertaken as part of an approved university study abroad program. Course work to be completed abroad must be approved in advance by department. May be repeated for a maximum of 32 credit hours.	0	
S AB 5990	STUDY ABROAD: ARTS & SCIENCES (0-16) Course work undertaken as part of an approved university study abroad program. Course work to be completed abroad must be approved in advance by department. May be repeated for a maximum of 32 credit hours. Prerequisite: One year of residence at CSU, good academic standing, prior approval by the major department and by the College of Arts and Sciences.	0	

Special Education (S ED)

Course	Course Description	Credit Hrs.	Contact Hrs.
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S ED 4200	<p>ASSISTIVE TECHNOLOGY IN AN INCLUSIVE ENVIRONMENT (3)</p> <p>An overview of assistive technology as it relates to education, communication, vocation, recreation, and mobility for individuals with disabilities. Students will explore types of assistive technologies, functional assessments, curricular modifications, alternative strategies, resources, collaborative efforts with family, community and related services personnel and district responsibilities. Requires 15 hours of teaching assisting.</p> <p>Prerequisites: S ED 4301/301, 5301/301G or consent of department.</p>	3	4
S ED 4301	<p>CHARACTERISTICS OF EXCEPTIONAL CHILDREN /FIELD (3)</p> <p>Psychological theories concerning exceptional children. Identification, etiology, characteristics of intellectual, physical, emotional, social, behavioral, and educational variance. Fifteen clock hours of field observation. May be taken concurrently with S ED 290. IAI: SED 904, ECE 913.</p> <p>Prerequisite: PSYC 2040/204; S ED 290 (Special Education majors only).</p>	3	3
S ED 4303	<p>TEACHING STUDENTS WITH EXCEPTIONAL NEEDS (3)</p> <p>Classroom organization, curricular modification, and methods of teaching exceptional learners in the general education class. Focus on the following exceptionalities; gifted, learning disability, mild mental retardation, and autism. Emphasis placed on curricular modifications, alternative strategies, assessment and collaborative efforts with family, community members and related services personnel. 15 hours of observation.</p> <p>Prerequisites: S ED 4301/301; admission to the College of Education, successful completion of one methods course.</p>	2	3
S ED 4304	<p>SPEECH AND LANGUAGE DEVELOPMENT AND THE CLASSROOM TEACHER (3)</p> <p>A study of the developmental aspects of speech and language. Emphases are placed on development from birth through age 21 and techniques for encouraging good speech and language in the classroom.</p> <p>Prerequisite: S ED 4301/301.</p>	3	3
S ED 4317	<p>TECHNOLOGY FOR SPECIAL EDUCATION TEACHERS (3)</p> <p>An overview of technological devices and applications in special education. Emphasis is placed on computer assisted instruction (CAI) and the use of assistance devices for learning and daily living requirements for people with disabilities.</p>	3	3
S ED 5092	<p>ILLINOIS SPECIAL EDUCATION TEACHER CERTIFICATION REVIEW /15 (1)</p> <p>Review of special education theory and practice in preparation for the State Teacher Certification LBS1 Examination. May not be counted for degree credit. Prerequisite:</p>	1	15

Course	Course Description	Credit Hrs.	Contact Hrs.
	Course will be taken prior to student teaching. Course is restricted to students currently enrolled in the program and CSU program completers.		
S ED 5301	<p>CHARACTERISTICS OF EXCEPTIONAL CHILDREN/FIELD (3)</p> <p>Psychological theories concerning exceptional children. Identification, etiology, characteristics of intellectual, physical, emotional, social, behavioral, and educational variance. Fifteen clock hours of field observation.</p> <p>Prerequisite: PSYC 2040/204.</p>	3	3
S ED 5303	<p>TEACHING STUDENTS WITH EXCEPTIONAL NEEDS/FIELD (2)</p> <p>Classroom organization, curricular modification, and methods of teaching exceptional learners in the general education class. Focus on the following exceptionalities: gifted, learning disability, mild mental retardation, and autism. Emphasis placed on curricular modifications, alternative strategies, assessment and collaborative efforts with family, community members and related services personnel. Fifteen hours of observation.</p> <p>Prerequisites: S ED 4301/301 or 5301/301G; Admission to the College of Education and completion of one methods course.</p>	2	3
S ED 5304	<p>SPEECH AND LANGUAGE DEVELOPMENT AND THE CLASSROOM TEACHER (3)</p> <p>A study of the developmental aspects of speech and language. Emphases are placed on development from birth through age 21 and techniques for encouraging good speech and language in the classroom.</p> <p>Prerequisite: S ED 4301/301</p>	3	3
S ED 5305	<p>STRESS MANAGEMENT FOR SPECIAL EDUCATION TEACHERS (3)</p> <p>A study of psychological and physiological stress and related symptoms with an emphasis on the development of practical coping skills in the school and classroom.</p> <p>Prerequisite: S ED 4301/301 and consent of the department.</p>	3	3
S ED 5311	<p>CHARACTERISTICS OF CHILDREN AND YOUTH WITH MENTAL RETARDATION (3)</p> <p>Advanced study of mental retardation, including prevalence, definitions, classification systems, etiology, behavioral and learning characteristics, and problems of parental adjustment.</p> <p>Prerequisite: S ED 4301/301.</p>	3	3

S ED 5313	TEACHING READING TO CHILDREN AND YOUTH WITH MENTAL RETARDATION (3) A study of teaching methods, materials, and organizational patterns used in teaching functional reading to children and youth who are mentally retarded. Prerequisite: S ED 5311/311 and admission to the College of Education.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
S ED 5315	OCCUPATIONAL PROBLEMS AND PROCEDURES FOR SPECIAL NEEDS STUDENTS (3) Employment opportunities, work experience, legal aspects, community agencies, and importance of academic areas to occupational adjustment for the mentally and physically disabled. Prerequisite: Consent of the department.	3	3
S ED 5317	TECHNOLOGY FOR SPECIAL EDUCATION TEACHERS (3) An overview of technological devices and applications in special education. Emphasis is placed on computer assisted instruction (CAI) and the use of assistance devices for learning and daily living requirements for people with disabilities.	3	3
S ED 5362	ASSESSMENT PROCEDURES IN PRESCHOOL EXCEPTIONALITY/FIELD (3) Diagnostic strategies and techniques of evaluation pertinent to the early detection of exceptionality in the preschool child. Twenty clock hours of field-based assessment practice. Prerequisite: Consent of preschool program coordinator.	3	3
S ED 5450	ASSESSMENT AND EVALUATION OF THE GIFTED/FIELD (3) Administration and interpretation of current assessment tools appropriate for groups of intellectually gifted children from varied backgrounds. Twenty hours of clinical experience. Prerequisite: S ED 5452/452 and consent of the department.	3	3
S ED 5451	ANALYSIS OF GIFTED PROGRAMMING /FIELD (3) On-site analysis and evaluation of gifted programs in elementary and high schools. Students compare theoretical models for gifted programs to operating gifted classes and programs. Thirty hours of structured observation. Prerequisites: S ED, 5450/450, 5452/452, 5453/453.	3	3

S ED 5452	CHARACTERISTICS OF GIFTEDNESS (3) Identification, characteristics, etiology, and criteria for evaluation of gifted children and youth.	3	3
S ED 5453	EDUCATION OF THE GIFTED CHILD /FIELD (3) Teaching methods, materials, and intervention strategies for gifted children and youth. Thirty hours of classroom experience. Prerequisites: SPED 5452/452 and consent of the department.	3	3
S ED 5454	ADVANCED CURRICULUM DEVELOPMENT FOR GIFTED STUDENTS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Detailed analysis of Guilford's Structure of Intellect and Gardner's Multiple Intelligence with application of these models to classroom activities for the brighter child.		
S ED 5461	CLINICAL TEACHING I: PRESCHOOL HANDICAPPED /FIELD (3) Practice in designing and implementing specific teaching strategies in a preschool class. Emphasis will be placed on prescriptive teaching. Twenty hours of classroom experience. Prerequisite: Consent of the department.	3	3
S ED 5466	INFANCY, RISK, AND DEVELOPMENT (3) Normal developmental expectations, risks to development and handicapping conditions during infancy. The need for early intervention as well as approaches to optimize the development of at-risk infants are stressed. Educational strategies for working with at-risk infants and their families are included.	3	3
S ED 5475	CROSS CATEGORICAL PRACTICUM (6) Student teaching with elementary and high school students eligible for special education services. Designed to prepare prospective teachers for full-time classroom responsibilities in a setting which serves students who exhibit two of the following characteristics: emotional behavioral disorders, mild mental retardation (EMH), and learning disabilities. Credit not applicable to master's degree in special education. Prerequisite: Completion of College of Education requirements for student teaching, completion of all other coursework in the approved program, and consent of the department; and a passing score on the subject matter/content area certification test within the last five years.	6	6

S ED 5476	CHARACTERISTICS OF LEARNERS WITH BEHAVIORAL, LEARNING AND COGNITIVE DISABILITIES /FIELD (4) Historical foundations, characteristics, identification and educational needs of learners with behavioral, learning and cognitive disabilities. Current definitions and classification systems, prevalence, terminology, social and behavioral characteristics, diagnostic and remedial procedures, and controversial issues in the field of behavioral, learning and cognitive disabilities. Fifteen hours of observation. Prerequisites: S ED 4301/301 or S ED 5301/301G	4	4
S ED 5477	Characteristics & Instructional Adaptations for Learners with Physical and Health Disabilities (3) History, characteristics, identification, etiology, and strategies for teaching learners with physical and health disabilities. Current definitions and classification systems, prevalence, terminology, behavioral characteristics, diagnostic and remedial procedures, social adjustment and controversial issues in the field. 20 hours of tutoring and teacher aiding.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: S ED 4301/301, 5301/301G		
S ED 5478	COLLABORATIVE RELATIONSHIPS WITH FAMILIES AND PROFESSIONALS (3) Basic concepts in supervision applied to consultation and collaboration with special educators, regular educators, parents and other interested parties. Understanding of special education procedures, school programs and legal rights for individuals from birth through age 21. In-depth explorations of issues of culture, race, ethnicity and socioeconomic standing as related to working with parents and professionals. Prerequisite: S ED 5476/476	3	3
S ED 5481	ADAPTIVE SKILLS FOR LEARNERS WITH SPECIAL NEEDS (3) This interdisciplinary course is designed to focus on methods and strategies for assisting learners with special needs develop critical adaptive skills. Emphasis will be placed on strategies for assessing and teaching functional academic and life skills needed by students to live independently in their home, school, and community settings. A case-study, remedial plan, and adapted lesson plan are completed in this course under the supervision of the departmental faculty. Prerequisite(s): Graduate Standing, SED 5301/301G, SED 5304/304G, SED 5476/476, SED 5477/477 and Admission to the College of Education or permission of the Chair of Special Education or Admission to the Master of Occupational Therapy Program.	3	3

S ED 5482	<p>CURRICULAR ADAPTATIONS FOR LEARNERS WITH SPECIAL NEEDS (3)</p> <p>Advanced teaching methods, materials, and intervention strategies for learners with disabilities in a variety of educational settings. Thirty hours of tutoring.</p> <p>Prerequisites: S ED 5476/476 and READ 5290/303/G</p>	3	3
S ED 5484	<p>CLASSROOM MANAGEMENT OF LEARNERS WITH SPECIAL NEEDS (3)</p> <p>Essential skills in functional assessment, applied behavior analysis, behavior management appropriate for improving academic and social skills of learners with special needs; emphasis on designing learning environments that allow educators to teach academic and pro-social behaviors through the application of behavioral technology.</p> <p>Prerequisites: S ED 5476/476.</p>	3	3
S ED 5487	<p>ASSESSMENT, MEASUREMENT & EVALUATION OF LEARNERS WITH SPECIAL NEEDS (3)</p> <p>An introduction to descriptive statistics, measurement theory and tests used to assess intelligence, school achievement, aptitude, language development and social and emotional adjustment of exceptional children. Theoretical and practical aspects of assessing learners with special needs. Administration, interpretation and evaluation of a variety of formal assessment instruments; diagnosis and prescriptions.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Graduate standing, S ED 5476/476 and S ED 5477/477.		
S ED 5488	<p>INTERNSHIP IN SPECIAL EDUCATION /FIELD (3)</p> <p>Applied practice in approved field settings (70 hours). Students will utilize knowledge and skills learned in characteristics and methods courses to successfully educate children and youth across a range of disability areas in academic subjects, functional life skills and social behavior.</p> <p>Prerequisites: S ED 5476/476, S ED 5477/477, S ED 5481/481 and S ED 5482/482.</p>	3	3

S ED 5489	LEADERSHIP & PROFESSIONAL CONDUCT (3) This course will focus on the role of the professional in Special Education and the understanding of teaching as a profession. Information covered will consist of appropriate ethical principles and standards special educators have to abide by, and professional conduct, growth, and development. Federal and state laws and regulations pertaining to the implementation of special education leadership and services, including analysis of organizational and financial structures of special education programs in Illinois, will also be included. Prerequisites: S ED 4301/301 or 5301/301G and S ED 5476/476, S ED 5477/477.	3	3
S ED 5490	WORKSHOP ON SELECTED TOPICS IN SPECIAL EDUCATION (1-3) Advanced study of selected topics pertaining to the field of special education with emphasis on topics having a high degree of contemporary relevance. (May be repeated for a maximum of six credit hours.) Prerequisite: Consent of the department.	1	1
S ED 5491	RESEARCH FINDINGS FOR SPECIAL EDUCATION TEACHERS (3) Study of the applications of research findings to classroom teaching practice in special education. Classic and contemporary studies are reviewed and implications for methodology and program organization are discussed. Prerequisite: Consent of the department.	3	3
S ED 5492	MASTER'S THESIS/RESEARCH PROJECT IN SPECIAL EDUCATION (3) This course is designed to focus on the role of research in Special Education. Exploration of the purposes, methodologies, and application of research in Special Education will be covered, culminating in the writing of a master's thesis/research project focusing on a topic(s) related to special education. This is a 1 to 3 credit hour variable course that can be repeated until the thesis/research project is accepted by the Department. A maximum of 3 credit hours related to this course can be counted towards the degree. Prerequisites: Admission to the college of Education; Graduate standing; 21 credit hours	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	successfully completed in the Special Education Master's program; and a passing score on the Illinois Special Education General Curriculum (#163) state exam, the APT (K-12 --#104) state exam, and the Learning Behavioral Specialist - I (#155) licensure exam.		

S ED 5493	<p>SPECIAL STUDY IN SPECIAL EDUCATION (3)</p> <p>Independent study and directed field research in an urban setting with emphasis on cooperative research investigation.</p> <p>Prerequisite: Consent of the instructor.</p>	3	3
S ED 5494	<p>SPECIAL EDUCATION LAW, COLLABORATIVE AND PROFESSIONAL CONDUCT (3)</p> <p>This course is designed to focus on state and federal laws and regulations pertaining to educating students with exceptional learning needs, and the implementation of special education services. Information covered will pertain to special education procedures, legal rights, and basic concepts in supervision applied to the understanding of teaching as a profession, collaborative and consultation approaches special and general educators, parents, and other interested parties can use to work together, and leadership and professional roles of educators in special education. An in-depth explorations of issues of culture, race, ethnicity and socioeconomic standing as related to working with parents and professionals, appropriate ethical principles and standards special educators have to abide to, and professional conduct, growth, and development, including analysis of organizational and financial structures of special education programs at the federal and state level will also be done. Class activities focusing on legal case reviews, professional development plan, philosophy of education statement, and interviewing of parents and professionals will be conducted under the supervision of the departmental faculty.</p> <p>Prerequisites: S ED 5301/301G, S ED 5304/304G, S ED 5476/476 and S ED 5477/477; Graduate Standing and Admission to the College of Education.</p>	3	3
S ED 5495	<p>INTRODUCTION TO EDUCATIONAL RESEARCH (3)</p> <p>This course is designed to cover information related to major steps involved in conducting research, creation of research questions/objectives and hypothesis, operational definitions of research constructs, sampling methods, experimental research, internal and external validity, procedures for selecting measuring instruments, basic psychometric and statistical methods, data analysis, qualitative and quantitative inquiry, mixed methods research, and survey, case-study, and action methods.</p> <p>Prerequisite(s): Must be fully admitted into the Special Education Master's Degree Program or consent of department.</p>	2	2
S ED 5496	<p>MASTER'S THESIS / PROJECT I PREPARING THE PROPOSAL (2)</p> <p>This course is designed to cover information related to procedures for planning, designing, organizing, and managing a master's level thesis/capstone project. Students will be required to construct a proposal for their own thesis/capstone project, the first step required in the fulfillment of their degree requirements. This proposal will serve as the framework for completing the master's/thesis project.</p>	2	2

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Prerequisite(s): Must be fully admitted into the SED Master's degree program; pass S ED 5495 Introduction to Educational Research; or consent of department.		
S ED 5497	<p>MASTER'S THESIS / PROJECT II - COMPLETING THE RESEARCH / CAPSTONE PROJECT (2)</p> <p>This course is designed to provide candidates with the opportunity to demonstrate their ability to plan, conduct and critically examine research reports and then, present a scientific investigation of relevance to their field of specialization by carrying out, analyzing and completing the collection of data needed for their master's thesis/capstone projects.</p> <p>Prerequisite(s): Must be fully admitted into the SED Master's Degree Program; Pass S ED 5495 Introduction to Educational Research; Pass S ED 5496 Master's Thesis Project I; or consent of department.</p>	2	2

Social Work (S WK)

Course	Course Description	Credit Hrs.	Contact Hrs.
S WK 5400	<p>WRITING FOR THE SOCIAL WORK PROFESSION (3)</p> <p>Social Workers take a unique approach to thinking and writing in that they view social issues and problems from a broad perspective. This course introduces the mechanics and techniques of professional (graduate-student level) writing for social work practitioners and is designed to enhance students' professional and academic writing skills.</p> <p>Prerequisite(s): Admission to the CSU Graduate College and MSW Program. Co-requisite(s): Concurrent enrollment in S WK 5410 and S WK 5420.</p>	3	3
S WK 5409	<p>GENERALIST SOCIAL WORK SEMINAR (3)</p> <p>Exposure to generalist social work practice framework, strengths perspective, and family centered orientation essential foundation for advanced curriculum.</p> <p>Prerequisites: Advanced Standing Admission to the Graduate Social Work Program</p>	3	3
S WK 5410	<p>SOCIAL WELFARE POLICY AND SERVICES I (3)</p> <p>Historical/ philosophical analysis of social welfare policy and services and the role of the social work profession in its development. National and international social policy legislation and services will be discussed and evaluated within the context of economic, political, and social justice.</p> <p>Prerequisite: Admission to the M.S.W. program or consent of the department.</p>	3	3
S WK 5411	<p>SOCIAL WELFARE POLICY AND SERVICES II: FAMILIES AND CHILDREN (3)</p> <p>An examination of the historical and contemporary impact of major social welfare policies and programs affecting the lives of families and children. Exploration and analysis of local, national and international policies, particularly related to their impact on the welfare of women.</p> <p>Prerequisite: SWK 5410/410 and admission to the MSW program; or consent of the department.</p>	3	3
S WK 5416	<p>DIVERSITY AND ETHICS IN SOCIAL WORK (3)</p> <p>The history and contemporary life experiences of disadvantaged, marginalized and oppressed people are addressed. Theoretical knowledge and experiential awareness of oppression, prejudice and discrimination are analyzed as a contextual foundation for ethical and culturally competent practice with diverse, urban populations-at-risk. The NASW Code of Ethics serves as the framework for ethical analysis.</p> <p>Prerequisite: Admission to the M.S.W. program or consent of department.</p>	3	3

S WK 5420	HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I (3)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Theory, research and practice that are inclusive of diverse urban populations-at-risk are presented and used in a life cycle approach to the study of the behavior of individuals, families, and groups and the impact of the social environment on human development.</p> <p>Prerequisite: Admission to the M.S.W. program.</p>		
S WK 5421	<p>HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II (3)</p> <p>The common mental disorders of adulthood and childhood are examined as social, cultural, biological, and psychological phenomena. An ecological framework is used to examine health and pathology within the context of a strengths-based perspective.</p> <p>Prerequisite: SWK 5420/420 and admission to the MSW program; or consent of the department.</p>	3	3
S WK 5430	<p>SOCIAL WORK PRACTICE I: INTEGRATED METHODS (3)</p> <p>Emphasis on the theories and skills for assessment and interventions which address behavioral, emotional, and situational problems of diverse populations-at-risk. Primary focus on individuals, families and groups.</p> <p>Prerequisites: S WK 5420/420 and admission to the MSW Program, or consent of the department; concurrent enrollment in S WK 5460/460.</p>	3	3
S WK 5431	<p>SOCIAL WORK PRACTICE II: COMMUNITY PRACTICE (3)</p> <p>Emphasis on professional social work practice in urban communities. Analysis of the structure, function and politics of communities, social agencies and other community institutions; strategies to facilitate community development and change are discussed. Development of community resources to empower diverse families and children are presented.</p> <p>Prerequisite or co-requisite: SWK 5430/430.</p>	3	3
S WK 5432	<p>FAMILY SUPPORT AND DEVELOPMENT (3)</p> <p>Focus on understanding diverse family structures, strengths, and the barriers to optimal family development. Study of family treatment models that address disruption in normal family functioning.</p> <p>Prerequisite or co-requisite: S WK 5421/421. Co-requisite: S WK 5461/461.</p>	3	3

S WK 5433	FAMILY CENTERED INTERVENTION (3) Development of advanced clinical intervention skills to enhance the functioning of families and children. Emphasizes utilization of natural supports, early intervention, and prevention models that are culturally sensitive and empowering. Prerequisite: SWK 5432/432, concurrent enrollment in S WK 5462/462 and admission to	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	the Advance Direct Practice concentration.		
S WK 5434	SYSTEM INTERVENTION FOR FAMILIES AND CHILDREN (3) Emphasis on assertive interventions and services to safeguard the welfare and development of children separated or in jeopardy of temporary or permanent separation from family. Develop advocacy skills to empower children and parents to access and cope with the limitations of the institutions that serve them. Prerequisite: SWK 5433/433; concurrent enrollment in S WK 5463/463; and admission to the Advanced Direct Practice Concentration.	3	3
S WK 5440	SOCIAL WORK RESEARCH METHODS I (3) Development of skills to conduct research pertinent to social work. Emphasis on research design, ethics, sampling and data collection. Analysis of past and current social work research. Prerequisite: S WK 5420/420 and admission to the MSW program; or consent of the department.	3	3
S WK 5441	SOCIAL WORK RESEARCH METHODS II (3) Advanced study of qualitative and quantitative research methods and data analysis. Emphasis on survey design, statistical analysis, ethnographic research, grounded theory, focus group strategies, and research interviewing techniques. Prerequisite: SWK 5440/440.	3	3
S WK 5450	ORGANIZATIONAL DYNAMICS (3) Theoretical models applicable to the analysis of group behavior and organizational culture in human service organizations. Development of skills to understand and enhance communication, staff functioning, and approaches to service delivery. Strategies for change will be explored. Prerequisite: S WK 5431/431 and completion of Foundation requirements.	3	3

S WK 5451	PROGRAM PLANNING IN HUMAN SERVICES (3) Planning theory and processes including problem analysis, program design, assessment, and evaluation. Proposal and grant writing, funding strategies, and evaluation technologies are included. Prerequisite: S WK 5432/432 (or concurrent enrollment). Admission to the Advanced Administration and Planning concentration. Co-requisite: S WK 5462/462	3	3
S WK 5452	NOT-FOR-PROFIT MANAGEMENT (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Advanced knowledge and skills utilized in administration of human services. Emphasis on organizational effectiveness, administrative roles and processes. Course examines ethical and pragmatic dilemmas in managing services within the context of political and social change. Prerequisite: SWK 5451/451; admission to the Advanced Administration and Planning Concentration. Co-requisite: S WK 5463/463.		
S WK 5453	PROGRESSIVE SOCIAL WORK PRACTICE (3) A progressive, critical/structural framework utilized to guide practice, focused on interfacing levels of oppression, including individual, interpersonal, cultural, structural, and political, and facilitating empowerment. Social justice issues are incorporated in relation to class, gender, racism, sexual orientation, ethnicity, religious perspectives, and other practice concerns. Prerequisites: S WK 5430/430, S WK 5434/434 or consent of the department	3	3
S WK 5454	SOCIAL WORK PRACTICE WITH MALES (3) Provides the knowledge base for Social Work Assessment and intervention with the male client; assumes that the experience of gender is mediated through particular social, political, historical, and cultural symbols which influence psychosocial development; which shape and contextualize men's experience. Prerequisites: S WK 5430/430	3	3

S WK 5455	SOCIAL WORK PRACTICE WITH COUPLES (3) Provides students with a broader in-depth understanding and development of skills for assessing and intervening with couples. Knowledge and skills; will enable students to develop a more integrated approach to work with couples across a wide range of functioning levels, and in diverse contexts. Prerequisites: S WK 5430/430	3	3
S WK 5456	SOCIAL WORK PRACTICE WITH SUBSTANCE ABUSE (3) Provides knowledge of multi-causal nature of substance abuse, and addictions, and develops practice skills; special emphasis on families impacted by addictions, including risk and resilience factors; development of strengths-based intervention strategies with culturally diverse populations, and in diverse service settings; reviews relevant public policy. Prerequisites: S WK 5410/410, S WK 5420/420 and S WK 5430/430	3	3
S WK 5457	SOCIAL WORK WITH GROUPS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Dynamics of small group process and interventions, with both treatment and task groups. Experiential. Includes planning, beginning, middle, and end phases, and evaluation of group process and outcomes.		
S WK 5458	SOCIAL WORK PRACTICE WITH URBAN ADOLESCENTS (3) Explores theories of adolescent development, dynamics of risks in urban areas, and a evidence-based interventions from a variety of practice settings including but not limited to communities, schools, group homes, transitional living programs, mental health facilities, and juvenile justice facilities. Prerequisites: S WK 5410/410 and S WK 5411/411.	3	3
S WK 5460	FIELD PRACTICUM I (3) First of four-semester sequence. Supervised field placements in community-based settings; includes an integrative seminar. Liability insurance is required. Additional course fee. Co-requisite: S WK 5430/430. Prerequisite: Consent of the field director	3	3

S WK 5461	FIELD PRACTICUM II (3) Second of a four-semester sequence. Supervised field placements of 200 clock hours in community based settings. Includes an integrative seminar. Liability insurance is required. Additional course fee. Prerequisite: SWK 5460/460 and consent of the field director. Co-requisite:S WK 5432/432.	3	3
S WK 5462	FIELD PRACTICUM III (3) Third of four-semester sequence. Supervised field placement of 275 clock hours in community based setting. Includes an integrative seminar. Liability insurance is required. Additional course fee. Prerequisite: S WK 5461/461 and consent of field director. Concurrent enrollment in one of the following: a) S WK 5433/433 if admitted to the Advanced Direct Practice Concentration; b) S WK 451 if admitted to the Advanced Administration and Planning Concentration; or c) S WK 5471/471 if admitted to the Advanced School Social Work Concentration.	3	3
S WK 5463	FIELD PRACTICUM IV (3) Fourth of a four-semester sequence. Supervised field placements of 275 clock hours in community based settings. Includes an integrative seminar. Liability insurance is required. Additional course fee.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: SWK 5462/462 and consent of the field director. Concurrent enrollment in one of the following: a) S WK 5434/434 if admitted in the Advanced Direct Practice Concentration; b) S WK 5452/452 if admitted to the Advanced Administration and Planning Concentration; or c) S WK 5472/472 if admitted to the Advance School Social Work Concentration.		
S WK 5464	POST-MSW SCHOOL SOCIAL WORK FIELD PRACTICUM I (3) This Field Practicum course provides MSW graduates with a minimum of 400 previously completed clock hours of field instruction with an additional 200 hours of field instruction experience in a public school setting in the fall semester. Students develop specialized practice knowledge and skills necessary for family-centered practice within an urban school setting. Prerequisites: Successful completion of the IBSE Test Basic Skills; Admission to the PostMSW Type 73 Certificate Program; Concurrent enrollment in S WK 5471/471.	3	3

S WK 5465	POST-MSW SCHOOL SOCIAL WORK FILED II (3) Field course provides MSW graduates with a minimum 200 Clock Hours field instruction experience within a public school setting. Students develop specialized practice knowledge and skills necessary for family-centered practice within urban school settings. A continuation of SWK 5464 Field Internship experience. Prerequisites: Admission to the Post-MSW Type 73 Certificate Program; Concurrent enrollment in S WK 5472/472 and S WK 5464/464.	3	3
S WK 5471	SCHOOL SOCIAL WORK PRACTICE I (3) Advanced knowledge and skills in assessment, advocacy, and school-based interventions; designed to prepare social workers for culturally competent, empirically grounded practice with children and their families in urban community school settings. Prerequisites: Admission to the Advanced School Social Work Concentration or PostMSW Type 73 Certificate Program and successful completion of S WK 5432/432 and the ISBE Test of Basic Skills. Co-requisites: Concurrent enrollment in S WK 5462/462 or departmental approval.	3	3
S WK 5472	SCHOOL SOCIAL WORK PRACTICE II (3) Utilizing ecological and family-centered perspectives, this advanced practice course emphasizes knowledge, values, and skills needed for implementing school social work services within and between the urban school, family, and community contexts. Prerequisites: Admission to the Advanced School Social Work Concentration and the successful completion of S WK 5471/471 and the ISBE Test of Basic Skills.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Co-requisites: Concurrent enrollment in S WK 5463/463 or departmental approval.		
S WK 5473	ADVANCED INTEGRATIVE SCHOOL SOCIAL WORK SEMINAR (3) Policy and practice within school settings for experienced MSW graduates; required for Type 73 School Social Work certification. Prerequisites: Admission to the Post-MSW Type 73 Certificate Program.	3	3

S WK 5476	ECONOMICS OF SOCIAL WELFARE (3) Examines the economic aspects of the provision of social welfare. Applies economic theories and concepts to understanding public and private social welfare services. Attention is given to the financial infrastructure and financing of non profit organizations, philanthropic organizations, federal social welfare programs, federal grants, and housing and community development. Prerequisites: S WK 5410/410 and S WK 5411/411.	3	3
S WK 5480	CHILDREN AND THE LAW (3) The law, the judicial system, and the influence of racial, ethnic, and economic prejudice on decisions affecting children and families. Confidentiality, court preparation and malpractice are included Prerequisite: SWK 5411/411 or concurrent enrollment.	3	3
S WK 5481	Supervision in Human Services Administration (3) Educational, administrative, and developmental models of supervision and the diverse roles of the supervisor/supervisee in creating and maintaining a positive and effective organizational climate. Prerequisite: S WK 5430/430	3	3
S WK 5482	TRAUMA IN CHILDHOOD (3) Focus on children exposed to violence or trauma. Systemic, ethnocultural factors and the roles and resources of the family will guide development of expertise in assessment and intervention. Practice models selected for study reflect multi-system, culturally competent, family-centered interventions. Prerequisites: S WK 5421/421 or concurrent enrollment	3	3
S WK 5483	SPIRITUALITY AND SOCIAL WORK (3) Exploration of the concept of spirituality and its distinctions from religion in social work	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	practice. A framework for increasing knowledge of diverse spiritual traditions, developing of spiritually sensitive practice interventions and clarification of values will be examined. Prerequisites: S WK 5420/420 (or concurrent enrollment) and S WK 5430/430 (or concurrent enrollment)		

S WK 5484	ADVANCED PRACTICE WITH CHILDREN AND ADOLESCENTS (3) Focus on using relational and cognitive theory for differential assessment and intervention methods using therapeutic games, play approaches, family and community collaborations and group methods. Skills in culturally competent engagement and therapeutic interviewing will be emphasized. Prerequisite: S WK 5421/421 (or concurrent enrollment) and S WK 5432/432 (or concurrent enrollment).	3	3
S WK 5489	SPECIAL TOPICS IN SOCIAL WORK (3) Intensive study of a topic in social work. May be repeated under different topics for up to 9 hours of credit. Prerequisite: Second year standing or consent of department	3	3
S WK 5490	CAPSTONE SEMINAR (3) An integrative seminar that reviews and critiques knowledge and experiences of the curriculum relative to preparation for professional practice. A substantive integrative paper and professional presentation will prepare students for entry into the workplace. Prerequisites: Concurrent enrollment in: SWK 5463/463 or 5474/474 and one of the following: SWK 5434/434 if in the Advanced Direct Practice Concentration; SWK 5452/452 if in the Advanced Planning and Administration Concentration; SWK 5472/472 if in the Advanced School Social Work Concentration.	3	3
S WK 5495	INDEPENDENT STUDY IN SOCIAL WORK (1-4) Self-directed study of social work topics with selected faculty. Prerequisite: Consent of the department.	1	1
S WK 5500	MINDFULNESS PRACTICE AND STRESS REDUCTION IN THE URBAN ENVIRONMENT (3) Course will examine the historical development and adaptation of mindfulness practice in the United States and explore other traditional mind body practices. Related neuroscience and evidence-based practice will be presented demonstrating the efficacy of mindfulness practice in promoting health and reducing stress related health disorders, particularly among communities disproportionately impacted by stress related illness and interpersonal violence. The importance of "present moment awareness" of the intra/inter personal dynamic as an important skill for the helping professional will be emphasized.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): S WK 5420/420 and S WK 5430/430 or consent of department.		

Security and Intelligence Study (SIS)

Course	Course Description	Credit Hrs.	Contact Hrs.
SIS 4050	<p>THE INTELLIGENCE COMMUNITY (3)</p> <p>History and evolution of the field of intelligence; functions capabilities, and organizational structures of U.S. and foreign intelligence agencies and their role in national security decision making; planning processes and strategies used by intelligence agencies to establish priorities and allocate resources to achieve their goals; appraisal of intelligence community activities.</p>	3	3
SIS 4060	<p>COLLECTION AND USE OF INTELLIGENCE INFORMATION (3)</p> <p>Various methods used by the intelligence community for collecting, processing, validating, and exploiting human and technical information for developing intelligence products; challenges and opportunities in coordinating information collection for intelligence; issues in information and intelligence sharing; future technologies and their potential impacts on collecting, sharing, and using intelligence information.</p>	3	3
SIS 4070	<p>INTELLIGENCE ANALYSIS (3)</p> <p>The intelligence process/cycle with emphasis on the role of intelligence analysis; critical thinking and conceptual competencies for intelligence analyst; analytic standards and structured analytic techniques; hypothesis generation and data analysis and modeling; hypothesis testing; analytic writing and briefing.</p>	3	3
SIS 4990	<p>INTERNSHIP IN INTELLIGENCE (3)</p> <p>Minimum of 100 hours working in an intelligence agency or on an intelligence project in order to demonstrate intelligence knowledge, skills and abilities in a non-academic setting. The outcome of this experience will culminate in a portfolio outlining the student's knowledge and expertise relating to the field of Intelligence.</p> <p>Prerequisite(s): SIS 4050, SIS 4060 and SIS 4070</p>	3	3
SIS 5050	<p>THE INTELLIGENCE COMMUNITY (3)</p> <p>History and evolution of the field of intelligence; functions capabilities, and organizational structures of U.S. and foreign intelligence agencies and their role in national security decision making; planning processes and strategies used by intelligence agencies to establish priorities and allocate resources to achieve their goals; appraisal of intelligence community activities.</p>	3	3

SIS 5060	COLLECTION AND USE OF INTELLIGENCE INFORMATION (3) Various methods used by the intelligence community for collecting, processing, validating, and exploiting human and technical information for developing intelligence products; challenges and opportunities in coordinating information collection for intelligence; issues in information and intelligence sharing; future technologies and their potential impacts on collecting, sharing, and using intelligence information.	3	3
SIS 5070	INTELLIGENCE ANALYSIS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	The intelligence process/cycle with emphasis on the role of intelligence analysis; critical thinking and conceptual competencies for intelligence analyst; analytic standards and structured analytic techniques; hypothesis generation and data analysis and modeling; hypothesis testing; analytic writing and briefing.		
SIS 5990	INTERNSHIP IN INTELLIGENCE (3) Minimum of 100 hours working in an intelligence agency or on an intelligence project in order to demonstrate intelligence knowledge, skills and abilities in a non-academic setting. The outcome of this experience will culminate in a portfolio outlining the student's knowledge and expertise relating to the field of Intelligence. Prerequisite(s): SIS 5050, SIS 5060 and SIS 5070	3	3

Sociology (SOC)

Course	Course Description	Credit Hrs.	Contact Hrs.
SOC 1010	<p>INTRODUCTION TO SOCIOLOGY (3)</p> <p>Survey of sociology and its methods; the study of society; social inequality; social institutions; and social change. S7 900</p>	3	3
SOC 1099	<p>FRESHMAN SEMINAR IN SOCIOLOGY (1)</p> <p>Introduction to the expectations of the university. The nature of a sociological approach to learning. Promotion of effective study skills, utilization of university resources including academic library, computer laboratories. Acclimation to university life.</p> <p>Prerequisites: Newly admitted freshman and transfer students with fewer than 30 credit hours.</p>	1	1
SOC 1110	<p>SOCIAL PROBLEMS (3)</p> <p>Study of social problems, possible causes, and attempted solutions; race and ethnic relations, family instability, violence, alcohol and drug abuse.</p> <p>Prerequisite(s): SOC 1010/101 or equivalent.</p>	3	3
SOC 1200	<p>RACE AND ETHNICITY (3)</p> <p>Analysis of race and ethnicity, racial and ethnic relations, and overview of diversity in the U.S. IAI: S7 903D</p> <p>Prerequisite(s): SOC 1010/101 or equivalent.</p>	3	3
SOC 1250	<p>DIVERSITY IN UNITED STATES SOCIETY (3)</p> <p>Exploration of diversity in the United States in all its forms, including race, ethnicity, religion, gender, nationality and sexual orientation. Focus on constructions of difference, intergroup relations and Chicago populations.</p>	3	3
SOC 1300	<p>INTRODUCTION TO NONPROFIT ORGANIZATIONS I (3)</p> <p>Introduction to the history and philosophical foundations of human service delivery systems. Development of career and employability skills as well as personal attributes necessary for an effective social/human service professional. Field trips to local agencies and presentations by agency professionals. Can not be used to fulfill general education requirements.</p> <p>Prerequisite: Consent of the department.</p>	3	3

SOC 1310	INTRODUCTION TO NONPROFIT ORGANIZATIONS II (3) General management skills used in social/human service agencies. Focus on board and committee development, risk management, and communication skills. Can not be used to fulfill general education requirements.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of the department.		
SOC 1500	PRINCIPLES AND PRACTICES OF FOOD JUSTICE (3) Hands-on experience in the process of environmentally-sound, community-based, food development projects. Service learning course examines local social problems including hunger, homelessness, poverty, ecology, health, and food systems. Off campus activity required. See instructor.	3	3
SOC 1900	SOCIOECONOMIC INEQUALITY OF WOMEN IN THE UNITED STATES (3) Examination of socioeconomic inequality of women across race, ethnicity, and class in the United States. Focus on income distribution, public policy, health and mortality, education, employment, social mobility, cultural reinforcement of inequality, and feminist responses to these conditions.	3	3
SOC 2030	SOCIOLOGY OF DEVIANCE (3) Theoretical and critical analysis of deviance; types of deviance and responses of society. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 2050	SOCIOLOGY OF POPULAR CULTURE (3) Analysis of culture and its components. Focus on mass communication in media and the arts in the U.S. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 2100	GROUP DYNAMICS (3) Structure and functions of human groups. Conditions affecting interactions among small groups. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 2120	AFRICAN AMERICANS IN SCIENCE AND SOCIETY (3) Contributions made by African Americans in math, physics, chemistry, engineering, medicine, and sociology. Exploration of the relationship between the scientist and society.	3	3

SOC 2200	INTRODUCTION TO HUMAN SEXUALITY (3)	3	3
	<p>This team-taught course explores human sexuality from biological, physiological, sociological and cultural contexts. Particular attention is given to the biological processes of sex and its impact on sensuality. The second half of the course explores social norms and values related to sex and explores views on contemporary sexuality that places emphasis on gender roles, gay, lesbian, bi-sexual, and transgendered. An interactive class that incorporates multiple medias, students are encouraged to explore their own views of sexuality.</p>		

Course	Course Description	Credit Hrs.	Contact Hrs.
SOC 2230	GENDER AND SOCIETY (3)	3	3
	<p>An overview of gender stratification in the United States through an analysis of such social institutions as the economy, government, religion, education, and the family. IAI: S7 904D</p>		
SOC 2250	INTRODUCTION TO GERONTOLOGY (3)	3	3
	<p>Analysis of social, cultural and economic factors affecting the aged in modern society.</p> <p>Prerequisite(s): SOC 1010/101 or equivalent.</p>		
SOC 2300	THE FAMILY (3)	3	3
	<p>Social, cultural, and economic forces affecting families in the U.S.; comparison to family organization in other societies and previous eras. IAI: S7 902</p> <p>Prerequisite(s): SOC 1010/101 or equivalent.</p>		
SOC 2410	COLLECTIVE BEHAVIOR (3)	3	3
	<p>Social processes in unstructured social situations. Crowds, mobs, and spontaneous movements. Current social movements.</p> <p>Prerequisite(s): SOC 1010/101 or equivalent.</p>		
SOC 2450	IDENTITY & COMMUNITY (3)	3	3
	<p>Examination of identity and identity development; relation to community, community membership, and community forms in contemporary society. (May not receive credit for both SOC 2400 and Soc 2450.)</p> <p>Prerequisite: SOC 1010</p>		

SOC 2500	INTRODUCTION TO SOCIAL WORK (3) Study of social work as a profession and an introduction to the field of social work. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 2900	SPECIAL TOPICS IN SOCIOLOGY (3) Intensive study of a topic in sociology. May be repeated under different topics for up to nine credits. Prerequisite(s): SOC 1010/101 or consent of the department.	3	3
SOC 3030	SOCIAL FACTORS IN JUVENILE DELINQUENCY (3) Relationship of delinquency to neighborhood, home, school, and community. Social determinants of delinquency.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): SOC 2030/253 or equivalent.		
SOC 3060	HIP HOP SOCIETY (3) Rap music and hip hop culture from a variety of perspectives: historical, sociological, artistic, political, cultural, and economic. Examination of the global impact of rap music and hip hop culture with emphasis on race relations, youth and gender. Prerequisites: SOC 1010/101 or consent of department	3	3
SOC 3200	RACE RELATIONS (3) The relationships between different racial and ethnic groups. Topics include racism, settlement patterns, representation, violence and conflict, interracial cultural exchange, cooperation and communication, intermarriage and miscegenation, and segregation. Emphasis on how different groups of people of color interact and the importance of this interaction. Prerequisites: SOC 1010/101 or consent of department.	3	3
SOC 3230	WOMEN AND SOCIAL ACTION (3) How gender stereotypes are transmitted through culture, the media, language, and educational institutions; social control in the areas of politics, the law, religion, and medicine; feminist movements and social action. Emphasis on case studies. Prerequisite(s): SOC 1010/101 or equivalent.	3	3

SOC 3290	LATINAS/OS IN CONTEMPORARY SOCIETY (3) Contemporary issues affecting Latinas/os. Examination of socioeconomic, cultural, political and historical phenomena. Topics include education, immigration, race, gender, sexuality, the arts, and civic participation. Prerequisites: SOC 1010/101 or consent of department	3	3
SOC 3300	SOCIOLOGY OF RELIGION (3) Examination of religion as a social institution; overview of types of religious experience and spirituality. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 3340	URBAN SOCIAL POLICY (3) A seminar on social policies in urban areas. Prerequisite: SOC 1010/101	3	3
SOC 3350	COMPLEX ORGANIZATIONS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Examination of complex organizations; impact on members and clients, internal dynamics, functions, bureaucracy, and place within the social environment. Theories and research on complex organizations in business, government, religion, the military, politics, and education. Prerequisite: SOC 1010/101		
SOC 3400	THE URBAN COMMUNITY (3) Study of urban and suburban social life, populations, spatial patterns, and social institutions. Prerequisite(s): SOC 1010/101 or equivalent.	3	3
SOC 3500	SOCIAL WORK PRACTICE I (3) Introduction to practice, theory, and models of social work intervention; will provide students with knowledge, values, and skills for multi-level generalist practice. Skill development in interviewing and recording emphasized. Prerequisite(s): SOC 1010/101 and 2500/235.	3	3

SOC 3510	SOCIAL WORK PRACTICE II (3) Development and use of generalist practice skills to facilitate change in diverse individuals, families and groups. Emphasizes skills in engagement, assessment, and evaluation. Prerequisite: Soc 3500/318	3	3
SOC 3560	CRISIS INTERVENTION IN SOCIAL WORK (3) Concepts and techniques needed in dealing with individual and family crisis situations. Prerequisite(s): SOC 1010/101 and 2500/235.	3	3
SOC 3570	METHODS OF SOCIAL WORK INTERVENTION (3) A beginning understanding of social work practice theory and skills with emphasis on the practice principles common to casework, group work and community organization in the beginning, middle and terminal phases of the helping process. Prerequisite(s): SOC 1010/101 and SOC 2500/235.	3	3
SOC 3700	INTRODUCTION TO DEMOGRAPHY (3) Introduction to basic techniques of demography and demographic analysis. Students will learn the structure and dynamics of a population and the processes which influence populations. Topics include; measures of mortality, fertility, marriage, and migration; how these factors contribute to change and stability in populations.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: SOC 1010/101		
SOC 3800	SOCIAL THEORY (3) Study of major theories in contemporary sociology, their origin and development. Writing emphasis course. Prerequisite: SOC 2400/202	3	3
SOC 4100	DEVELOPMENT PERSPECTIVES (3) Analysis of the theoretical concepts of social development and its applications. The course will examine the relationship between social development on an international level and local applications in both US and developing nations. Prerequisites: SOC 1010/101	3	3

SOC 4150	ENVIRONMENTAL SOCIOLOGY (3) Examine interrelationships between human societies and the non-human environment. Apply sociological concepts to understanding how human behavior impacts environment and how environment influences human organization. Topics include climate change, food systems, development, political economy, environmental social movements and environmental justice. Prerequisites: SOC 1010/101	3	3
SOC 4200	SOCIAL CLASS AND STRATIFICATION (3) Study of social class, criteria of class placement and social mobility. Writing emphasis course. Prerequisite: SOC 1010/101	3	3
SOC 4230	BLACK WOMEN AND SOCIETY (3) Examination of the complex range of experiences of Black women in America. Issues related to race, class, sexuality, culture and politics will be explored in an effort to gain a better understanding of how Black women are situated in U.S. society and how these issues impact their daily lives. Prerequisites: SOC 1010/101	3	3
SOC 4250	SEMINAR ON AGING (3) Critical review of lifestyles and problems of older people. Emphasis on current programs affecting older members of society. Prerequisite: SOC 2250/259	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
SOC 4280	SEMINAR: THE LAW, PUBLIC POLICY AND AFRICAN AMERICANS (3) Analysis of important historical and current issues and legislation with an impact on African Americans. (This course satisfies the elective course requirements for the African American Studies major or minor.)(This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: SOC 1010/101	3	3

SOC 4300	SEMINAR IN SOCIOLOGICAL ASPECTS OF THE BLACK FAMILY (3) A critical review and analysis of theories and perspectives about African Americans. Special attention on research and studies which influence public policy. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: SOC 1010/101	3	3
SOC 4450	COMMUNITY ORGANIZING (3) Techniques, practice, and theories of community organizing; focus on diverse communities facing conditions of social, economic, and/or political decline. Prerequisites: SOC 1010/101, or consent of department	3	3
SOC 4500	PRINCIPLES OF CASE MANAGEMENT (3) Development of knowledge and skills utilized by case managers in human service organizations; emphasis on managed care, assessment, referral and advocacy. Prerequisite(s): SOC 1010/101, SOC 2500/235 and SOC 4560/335.	3	3
SOC 4550	CHILD WELFARE SERVICES (3) Principles and policies relating to child welfare services with emphasis on children in poverty. Prerequisite(s): SOC 1010/101 and SOC 2500/235.	3	3
SOC 4560	SOCIAL WELFARE POLICY (3) General overview of organization, policies, institutions, and programs relevant to social welfare in contemporary society. Prerequisite(s): SOC 1010/101 and 2500/235.	3	3
SOC 4570	ADOLESCENTS AND THEIR FAMILIES (3) Exploration of sociocultural and behavioral factors that negatively impact adolescents and their families; related theories and change strategies included.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite(s): SOC 1010/101 and 2500/235 or consent of the department.		

SOC 4580	<p>SOCIAL WORK WITH THE AGED (3)</p> <p>Preparation for direct social work practice with vulnerable elderly. Assessment and intervention strategies emphasized. Credit not give for SOC 260 and SOC 4580/359.</p> <p>Prerequisite(s): SOC 1010/101 and SOC 2500/235.</p>	3	3
SOC 4810	<p>SOCIAL RESEARCH METHODS (3)</p> <p>The techniques of original sociological research; research design, surveys, experiments, content analysis, field research, and comparative research. Evaluation of current research.</p> <p>Prerequisite(s): SOC 1010/101 and 6 additional credit hours in sociology, or consent of the instructor.</p>	3	3
SOC 4830	<p>QUANTITATIVE METHODS (3)</p> <p>Computer-based date management and analysis, includes data presentation, measures of central tendency and variability, hypothesis testing, analysis of variance, chi-square tests, correlation and regression.</p> <p>Prerequisite(s): SOC 1010/101; 6 additional credit hours in sociology; CPTR 1060/106; and MATH 1200/162 or equivalent; or consent of the department.</p>	3	3
SOC 4850	<p>SEMINAR IN CULTURAL THEORY (3)</p> <p>Advanced study and critical analysis of classical and contemporary cultural theory.</p> <p>Prerequisite(s): SOC 1010/101 and 3800/330 or consent of the department.</p>	3	3
SOC 4900	<p>INDEPENDENT STUDY (3)</p> <p>Individual study and supervised research.</p> <p>Prerequisite: SOC 1010/101</p>	3	3
SOC 4950	<p>FIELD INTERNSHIP (3-12)</p> <p>Practical application of sociological theory in career oriented research projects, agency work, or special programs.</p> <p>Prerequisite: SOC 1010/101, 2400/202, six additional hours of sociology, and consent of the department.</p>	3	3
SOC 4980	<p>SENIOR SEMINAR (3)</p> <p>Sociology capstone seminar; completion of a senior paper/project incorporating original research and/or content of sociological significance. Career preparation for sociology majors.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Sociology major; senior standing.		
SOC 4990	SENIOR HONORS THESIS (3) Directed research and writing. May be repeated for a maximum of six (6) credit hours. Prerequisites: Senior standing, admittance to the Honors in the Major program, and consent of the department.	3	3
SOC 5450	COMMUNITY ORGANIZING (3) Techniques, practice, and theories of community organizing; focus on diverse communities facing conditions of social, economic, and/or political decline. Prerequisites: SOC 1010/101 or consent of department	3	3
SOC 5550	CHILD WELFARE SERVICES (3) Principles and policies relating to child welfare services with emphasis on children in poverty. Prerequisite: Admission to MSW program or consent of department.	3	3
SOC 5580	SOCIAL WORK WITH THE AGED (3) Preparation for direct social work practice with vulnerable elderly. Assessment and intervention strategies emphasized. Students may not earn credit in SOC 5580/359G if credit has been earned in SOC 260 or SOC 4580/359. Prerequisite: S WK 5420/420 and S WK 5421/421, or consent of department.	3	3

Spanish (SPAN)

Course	Course Description	Credit Hrs.	Contact Hrs.
SPAN 1000	FRESHMAN SEMINAR: SPANISH (1) Introductory exposure to the Spanish major. Study skills, time management and career exploration.	1	1
SPAN 1010	ELEMENTARY SPANISH I LECTURE AND LABORATORY/4 (3) Oral-aural mastery of basic grammar and vocabulary. Reading simple Spanish texts. Additional course fee.	3	4

SPAN 1020	ELEMENTARY SPANISH II (3) Continuation of Spanish 1010/101. Additional course fee. Prerequisite: SPAN 1010/101 or consent of the department.	3	4
SPAN 1030	ELEMENTARY SPANISH III LECTURE AND LABORATORY/4 (3) Continuation of Spanish 1020/102. Optional bridge course for students interested in continuing with Spanish at more advanced levels and who are not able to satisfy intermediate level proficiency. Additional course fee. Prerequisites: Spanish 1020/102 or consent of the department.	3	4
SPAN 1092	ILLINOIS FOREIGN LANGUAGE TEACHER CERTIFICATION REVIEW (1) Review of vocabulary, syntax, language usage, specific grammar points, cultural concepts, and principles of foreign language teaching to prepare for state certification examination. Credit may not be counted toward degree requirements. Prerequisite: SPAN 4170/317 or equivalent and ELCF 4500/353 and consent of the department. Must be completed before enrolling in student teaching.	1	1
SPAN 1100	INTENSIVE BEGINNING SPANISH /8 (6) Intensive oral-aural mastery of basic grammar and vocabulary. Reading simple Spanish texts. Course covers one year of college Spanish. Credit may not also be given for SPAN 1010/101, 1020/102, 1200/130, and 1210/131. Additional course fee.	6	8
SPAN 1120	ELEMENTARY BUSINESS SPANISH I (3) Mastery of basic grammar and vocabulary in a business context. Reading of simple business documents.	3	3
SPAN 1200	ELEMENTARY SPANISH FOR THE PROFESSIONS I (3) Mastery of basic grammar and specific vocabulary in the context of specific professions: business, health and social services, police and criminal justice. Course may be taken a	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	maximum of three times if the topic is different (e.g., Spanish for Business, Spanish for Healthcare and Social Professions, and Spanish for Police and Criminal Justice.) Additional course fee.		

SPAN 1210	ELEMENTARY SPANISH FOR THE PROFESSIONS II /4 (3) Mastery of basic grammar and specific vocabulary for professions in the context of specific professions: business, health and social services, police and criminal justice. Course may be taken a maximum of three times if the topics are different: (e.g. Spanish for Business, Spanish for Healthcare and Social Services Professions, and Spanish for Police and Criminal Justice). Prerequisites: Spanish 1200/130 in the same topic	3	4
SPAN 2010	INTERMEDIATE SPANISH I LECTURE AND LABORATORY /4 (3) Intensive oral drill and recitation in Spanish grammar. Advanced practice in reading and writing. Additional course fee. Prerequisite: SPAN 1020/102 or consent of the department.	3	4
SPAN 2020	INTERMEDIATE SPANISH II LECTURE AND LABORATORY /4 (3) Continuation of Spanish 2010/151. Additional course fee. IAI: H1900 Prerequisite: SPAN 2010/151 or consent of the department.	3	4
SPAN 2030	INTERMEDIATE SPANISH III LECTURE AND LABORATORY/4/ (3) Continuation of SPAN 2020/152. Optional bridge course for students interested in continuing with Spanish at more advanced levels and students who are not able to satisfy intermediate level proficiency. Additional course fee. Prerequisites: SPAN 2020/152 or consent of department.	3	4
SPAN 2060	CONVERSATIONAL SPANISH I (3) Development of spoken Spanish for general purposes. Cannot be taken by fluent speakers of Spanish. Prerequisite: SPAN 1020/102 or consent of the department.	3	4
SPAN 2070	CONVERSATIONAL SPANISH II (3) Further development of spoken Spanish for general purposes. Cannot be taken by fluent speakers of Spanish. Prerequisite: Span 2060/206 and consent of the department.	3	4
SPAN 2200	SPANISH FOR CAREERS: VARIABLE TOPICS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Skills in the Spanish language for specific careers as business, health services, and social services.</p> <p>Prerequisite: Three credit hours of Spanish and consent of the department.</p>		
SPAN 2610	<p>FIELDWORK IN SPANISH (3)</p> <p>Application of Spanish in areas of community and educational concerns and in local business and industry. Specific vocabulary, conversation and comprehension exercises. Workshop. May be repeated for maximum of 6 credit hours.</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	3
SPAN 3010	<p>ADVANCED SPANISH I LECTURE AND LABORATORY /4 (3)</p> <p>Continued study of grammar through proper idiomatic usage. Writing emphasis course.</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	4
SPAN 3020	<p>ADVANCED SPANISH II LECTURE AND LABORATORY /4 (3)</p> <p>Continuation of Spanish 3010/201. Writing emphasis course. Additional course fee.</p> <p>Prerequisite: Span 3010/201 or consent of the department.</p>	3	4
SPAN 3100	<p>INTRODUCTION TO THE ART OF TRANSLATION (3)</p> <p>Techniques of translation and their practical application. Credit not given for both FL&L 3100/210 and SPAN 3100/208.</p> <p>Prerequisite: Intermediate Spanish 2020/152 and consent of the department.</p>	3	3
SPAN 3110	<p>SPANISH FOR NATIVE SPEAKERS I (3)</p> <p>An accelerated review of language skills for native and near-native speakers of Spanish.</p> <p>Prerequisite: Consent of the department.</p>	3	3
SPAN 3120	<p>SPANISH FOR NATIVE SPEAKERS II (3)</p> <p>Continuation of Spanish 3110/211.</p> <p>Prerequisite: Span 3110/211 or consent of the department.</p>	3	3
SPAN 3130	<p>CULTURE OF SPAIN (3)</p> <p>Study of Spain's culture, traditions and customs as revealed in readings, art and music. Writing emphasis course.</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
SPAN 3140	<p>CULTURE OF LATIN AMERICA (3)</p> <p>Study of Latin American culture and customs as revealed in readings, art and music. Writing emphasis course.</p> <p>Prerequisite: Span 2020/152 or consent of the department.</p>	3	3
SPAN 3150	<p>SPANISH COMPOSITION I (3)</p> <p>Original compositions in Spanish. Translations from English to Spanish. Advanced practice in Spanish conversation.</p> <p>Prerequisite: Span 2020/152 or consent of the department.</p>	3	3
SPAN 3160	<p>SPANISH COMPOSITION II (3)</p> <p>Original compositions in Spanish. Translations from English to Spanish.</p> <p>Prerequisite: Span 2020/152 or consent of the department.</p>	3	3
SPAN 3190	<p>AFRO-HISPANIC CULTURE AND LANGUAGE (3)</p> <p>Afro-Hispanic culture and language as revealed in customs, history, speech, art, music and religion. (Enrichment core course.) (This course satisfies the elective course requirements for the African American Studies major or minor.) IAI: HF 904N</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	3
SPAN 3200	<p>SPANISH FOR COMMUNITY AND SOCIAL SERVICE PROFESSIONALS I (3)</p> <p>Study of specialized vocabulary and structures of the language needed to deal with the Hispanic population in a variety of community and social agencies.</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	3
SPAN 3201	<p>SPANISH FOR COMMUNITY AND SOCIAL SERVICE PROFESSIONALS II (3)</p> <p>Study of specialized vocabulary and structures of the language needed to deal with the Hispanic population in a variety of community and social agencies.</p> <p>Prerequisite: SPAN 2020/152 or consent of the department.</p>	3	3

SPAN 3210	INTRODUCTION TO SPANISH LITERARY CRITICISM /FIELD (3) Literary analysis of Spanish texts by using different critical approaches. Frequent written reports. Prerequisite: SPAN 2020/152 or consent of the department.	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
SPAN 3220	SURVEY OF SPANISH LITERATURE I (3) Selected masterpieces of Spanish literature from its origins to 1699. Prerequisite: SPAN 2020/152 or consent of the department.	3	3
SPAN 3230	SURVEY OF SPANISH LITERATURE II (3) Selected masterpieces of Spanish literature from its origins to 1700. Prerequisite: Span 2020/152 or consent of the department.	3	3
SPAN 3300	THE LANGUAGE AND CULTURE OF HISPANICS IN THE UNITED STATES (3) The course examines the linguistic features which are unique to the various Hispanic groups in the United States as well as their cultural heritage. Prerequisite: SPAN 2020/152 or consent of the department.	3	3
SPAN 3500	SURVEY OF SPANISH AMERICAN LITERATURE I (3) Selected masterpieces of Spanish American literature from the time of the conquest to modernism. Prerequisite: SPAN 2020/152 or consent of the department.	3	3
SPAN 3510	SURVEY OF SPANISH AMERICAN LITERATURE II (3) Selected masterpieces of Spanish American literature from post modernism to the present. Prerequisite: SPAN 2020/152 or consent of the department.	3	3
SPAN 3660	AFRO-HISPANIC LITERATURE (3) Study of the outstanding Black writers of Peru, Ecuador, and the Caribbean Circle. (This course satisfies the elective course requirements for the African American Studies major or minor.) Prerequisite: SPAN 2020/152 or consent of the department.	3	3

SPAN 3990	INDEPENDENT STUDY (3) Individual research in a specific area suited to the student's needs. Weekly conference with faculty advisor and summary paper required. Prerequisite: Consent of the department and of faculty members who will supervise the research.	3	3
SPAN 4101	HELPING HISPANIC FAMILIES (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Historical background of major Hispanic groups in the U.S. key concepts such as the roles of family in Hispanic and dominant cultures. Prerequisites: PSYC 2000/217 or PSYC 2040/204; Senior standing and consent of department.		
SPAN 4140	TOPICS IN SPANISH/SPANISH AMERICAN LITERATURE/ CULTURE/ METHODOLOGY/LINGUISTICS (3) Specific topics dealing with literature, culture, language, or foreign language methodology. May be repeated for a total of six credit hours. Prerequisite: SPAN 3020/202 or consent of the instructor.	3	3
SPAN 4150	MEXICAN LITERATURE (3) Selected masterpieces of Mexican literature with emphasis on works from the 20th century. Prerequisite: SPAN 3010/201 or consent of the department.	3	3
SPAN 4170	INTRODUCTION TO SPANISH PHONETICS AND LINGUISTICS (3) Study of the Spanish sound system and analysis of the syntactic, morphological and semantics system of Spanish. Contrast between English and Spanish sounds and between English and Spanish grammatical structures. Prerequisite: Span 3010/201 or Span 3020/202 or consent of the department.	3	3
SPAN 4270	HISPANIC MEDIA (3) Examination of the Hispanic media industry and important issues confronting Hispanic media producers. (CMAT 4327/327 is identical to SPAN 4270/327 and credit will not be given for both.) Prerequisite: SPAN 2020/152 or consent of the Spanish and/or Speech advisors.	3	3

SPAN 4300	HISPANIC LITERATURE OF THE UNITED STATES (3) Study of writings by United States Hispanic authors. Topics may vary to emphasize specific genres and/or nationalities and/or themes. May be repeated three times under different topics for a total of 9 credit hours. Prerequisite: Span 3020/202 or consent of the department.	3	3
SPAN 4310	SPANISH FOR BUSINESS II: TRANSLATION (3) The study of business vocabulary and concepts is continued with an emphasis on translating business letters and documents. Prerequisite: SPAN 3020/202 or consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
SPAN 4330	SPANISH FOR BUSINESS I (3) Study of specific vocabulary, idiomatic expressions, and concepts used in international business. Areas of interest include import/export, international banking and marketing. Prerequisite: SPAN 3020/202 or consent of the department.	3	3
SPAN 4410	MEDIEVAL SPANISH LITERATURE TO 1500 (3) Spanish literature from its beginnings to the Renaissance. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4420	SPANISH LITERATURE OF THE GOLDEN AGE : 16TH AND 17TH CENTURIES (3) Spanish poetry and prose and/or drama from the Renaissance to the Baroque. Oral and written reports. Prerequisites: SPAN3010/ 201 or 3020/202, or the consent of the department.	3	3
SPAN 4430	SPANISH LITERATURES OF THE 18TH & 19TH CENTURIES (3) Spanish poetry, prose and/or drama from the Enlightenment to the Generation of 1898. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4440	SPANISH LITERATURE OF THE 20TH CENTURY TO THE PRESENT (3) Spanish poetry, prose and/or drama since the Generation of 1898. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3

SPAN 4450	SPANISH FILM (3) Survey of major Peninsular films. Discussion of theory and themes with screenings of representative works. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4610	PRE -COLUMBIAN & COLONIAL LITERATURE (3) Latin American literature and culture from its beginnings through the Colonial period. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4620	LATIN AMERICAN LITERATURE: FROM THE INDEPENDENCE THROUGH MODERNISM (3) Nineteenth Century Latin American literature and culture, including poetry, prose, and	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.		
SPAN 4630	LATIN AMERICAN LITERATURE: MODERNISM TO THE BOOM (3) Twentieth Century Latin American literature and culture, including poetry, prose, and drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4640	LATIN AMERICAN LITERATURE: BOOM AND POST BOOM (3) Latin American Literature and culture since 1961, including poetry, prose, and drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 4650	LATIN AMERICAN FILM (3) Survey of Latin American films. Discussion on theory and themes with screenings of representative works. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3

SPAN 4990	SPANISH HONORS SEMINAR (3-6) Program of study and research during senior year with individual faculty mentor (thesis advisor). A thesis/project and public presentation are the expected culmination of the course. Prerequisite: Admission to the department's Honors Program.	3	3
SPAN 4995	SPANISH SENIOR SEMINAR (2) Writing of Spanish senior thesis in Spanish with guidance of a faculty advisor. Oral presentation of thesis to a faculty panel is required. Prerequisites: Consent of Department	2	2
SPAN 5101	HELPING HISPANIC FAMILIES (3) Historical background of major Hispanic groups in the U.S. Key concepts such as the roles of family in Hispanic and dominant cultures. Spanish vocabulary essential to the counseling profession. Prerequisites: Admission into the Graduate Counseling Program.	3	3
SPAN 5140	TOPICS IN SPANISH/SPANISH AMERICAN LITERATURE/ CULTURE/METHODOLOGY/ LINGUISTICS (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Specific topics dealing with literature, culture, language, or foreign language methodology. Required field hours. May be repeated for a total of six credit hours.		
SPAN 5170	INTRODUCTION TO SPANISH PHONETICS AND LINGUISTICS (3) Study of the Spanish phonetic system and analysis of the syntax, the morphology and the semantics of Spanish. Contrast between the phonetics of English and Spanish and between the grammars of English and Spanish. Prerequisite: SPAN 3010/201 or 3020/202 or consent of department.	3	3
SPAN 5320	HISPANIC LITERATURE OF THE U.S. (3-9) Study of writings by United States Hispanic authors. Topics may vary to emphasize specific genres and/or nationalities and/or themes. May be repeated three times under different topics for a total of 9 credit hours. Prerequisites: SPAN 3020/202 or graduate status.	3	3

SPAN 5400	HISTORY OF THE SPANISH LANGUAGE (3) Development of modern Spanish and its background. Readings from different time periods. Prerequisites: Consent of department.	3	3
SPAN 5404	AFRO-CARIBBEAN LITERATURE (3) Literature of the Caribbean Basin. Prerequisites: Graduate Status or consent of department.	3	3
SPAN 5405	AFRO-CARIBBEAN LANGUAGES AND CULTURES (3) Languages and cultures of the Caribbean Basin. African influences and dialectology will be discussed. Prerequisites: Graduate Status or consent of department.	3	3
SPAN 5410	MEDIEVAL SPANISH LITERATURE TO 1500 (3) Spanish literature from its beginnings to the Renaissance. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5420	SPANISH LITERATURE OF THE GOLDEN AGE: 16TH AND 17TH CENTURIES (3) Spanish poetry and prose and/or drama from the Renaissance to the Baroque. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
SPAN 5421	TOPICS IN INTERDISCIPLINARY STUDIES IN SPANISH (3-6) Selected topics from different disciplinary perspectives. Can be repeated for a total 6 hrs with different topics. Prerequisites: Consent of department.	3	3
SPAN 5430	SPANISH LITERATURES OF THE 18TH & 19TH CENTURIES (3) Spanish poetry, prose and/or drama from the Enlightenment to the Generation of 1898. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3

SPAN 5440	SPANISH LITERATURE OF THE 20TH CENTURY TO THE PRESENCE (3) Spanish poetry, prose and/or drama since the Generation of 1898. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5450	SPANISH FILM (3) Survey of major Peninsular films. Discussion of theory and themes with screenings of representative works. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5610	PRE-COLUMBIAN & COLONIAL LITERATURE (3) Latin American literature and culture from its beginnings through the Colonial period. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5620	LATIN AMERICAN LITERATURE: FROM THE INDEPENDENCE THROUGH MODERNISM (3) Nineteenth Century Latin American literature and culture, including poetry, prose, and drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5630	LATIN AMERICAN LITERATURE: MODERNISM TO THE BOOM (3) Twentieth Century Latin American literature and culture, including poetry, prose, and drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.	3	3
SPAN 5640	LATIN AMERICAN LITERATURE: BOOM AND POST BOOM (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Latin American Literature and culture since 1961, including poetry, prose, and drama. Oral and written reports. Prerequisites: SPAN 3010/201 or 3020/202, or the consent of the department.		

SPAN 5650	<p>LATIN AMERICAN FILM (3)</p> <p>Survey of Latin American films. Discussion on theory and themes with screenings of representative works. Oral and written reports.</p> <p>Prerequisites: SPAN 2010/201 or 3020/202, or the consent of the department.</p>	3	3
SPAN 5760	<p>STUDENT TEACHING AND SEMINAR: SECONDARY LEVEL /FIELD (6)</p> <p>Off-campus placement in secondary level schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching.</p> <p>Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.</p>	6	6

Technology and Education (T&ED)

Course	Course Description	Credit Hrs.	Contact Hrs.
T&ED 2120	<p>COMPUTER TECHNIQUES FOR EDUCATORS /LECTURE AND LABORATORY 6 (3)</p> <p>A technical laboratory-based course designed to develop basic computer-related skills among educators including managing computer files, keyboarding by touch, maneuvering on the Internet, using productivity software and troubleshooting common software and hardware problems. Credit given for only one of the following: T&ED 2120/120; T&ED 1109/109. Additional course fee.</p>	3	6
T&ED 2215	<p>BUSINESS MATHEMATICS (3)</p> <p>Principles of mathematics and applications to practical business situations. Conceptual understanding and skill developments in areas of fundamental mathematical processes, business-related transactions, consumer- and employment-related situations, and advanced business applications.</p> <p>Prerequisite: Successful completion of the mathematics qualifying examination.</p>	3	3
T&ED 2291	<p>TECHNOLOGY AND SOCIETY (3)</p> <p>Promises and problems of technology as related to humans and the environment. Writing emphasis course.</p>	3	3
T&ED 3244	<p>DIGITAL PROCESSES LECTURE AND LABORATORY /4 (3)</p> <p>In-depth coverage of contemporary digital tools as they relate to using computers in production and reproduction processes. Topics include digital file management, hardware, and software applications, graphics, and digital photography. Additional course fee.</p>	3	6
T&ED 4315	<p>BUSINESS AND PROFESSIONAL COMMUNICATION (3)</p> <p>Application of the fundamental processes of communication in business and professional simulations, such as conferences, job applications, interviews, reports and research papers. Writing emphasis course.</p> <p>Prerequisite: Consent of the department</p>	3	3
T&ED 4330	<p>MICROCOMPUTER APPLICATIONS LECTURE AND LABORATORY /4 (3)</p> <p>Application and hands-on experience related to business software using operating systems, and spreadsheets, database, word processing and presentation applications.</p> <p>Prerequisites: Consent of department</p>	3	4

T&ED 4346	PRESENTATIONS LECTURE AND LABORATORY /4 (3) Techniques procedures and applications for designing and delivering electronic and Internet presentations. Emphasis on developing presentations for delivery of instruction in education, business and industrial settings.	3	4
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Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of Department		
T&ED 4347	CYBERSPACE PUBLISHING LECTURE AND LABORATORY /4 (3) Fundamentals for developing internet publications through the integration of text, graphics, photos, audio, video and animation, using publishing, design, and authoring tools and markup languages. Prerequisite: Consent of the department.	3	6
T&ED 4348	ADVANCED WEB PAGE DESIGN LECTURE AND LABORATORY /6 (3) Advanced techniques for designing developing, re-designing and managing Web sites. Prerequisite: T&ED 4347/347	3	6
T&ED 4354	SHOP MAINTENANCE LECTURE AND LABORATORY /6 (3) Upkeep and care of school shop tools, equipment and machinery.	3	6
T&ED 4384	ORGANIZATION AND ADMINISTRATION OF COOPERATIVE OCCUPATIONAL EDUCATION PROGRAMS (3) Theoretical concepts, curricular development, and administrative techniques in the operation of work experience career exploration programs. Used as a trade certification course. Prerequisite: T & ED 4398/398, or consent of the department.	3	3
T&ED 4385	SUPERVISION OF INDUSTRIAL SAFETY (3) History and growth of occupational safety; the Occupational Safety and Health Act of 1970; Workmen's Compensation Insurance; accident records, injury rate, accident investigation, analysis and cost; safety program organization; specific industrial safety problems. Writing emphasis course.	3	3

T&ED 4387	TECHNOLOGY AND EDUCATION INTERNSHIP (1-9) Off campus internship in field-based education, business or industrial setting. Supervision and guidance by department coordinator. Credit will not be given for bothe T&ED 4387/387 and either of the following: IT 387/G; BE 340/G. Prerequisite: For BE and ITE majors only: Admission to the College of Education; T&ED 4630/363 (or concurrent enrollment).	1	1
T&ED 4388	TECHNOLOGY, POLLUTION AND THE LAW (3) A study of modern technology as related to methods used to control pollution in our industries. A major focus will be placed on the role played by federal, state and local laws in controlling industrial pollution.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisite: Consent of department.		
T&ED 4389	SPECIAL TOPICS IN TECHNOLOGY EDUCATION (1-3) Techniques of teaching new technological concepts or applications of technical education to new teaching situations. Prerequisite: Consent of the department.	1	1
T&ED 4390	FIELD EXPERIENCE (1-9) Substantive study and activity planned by the student, university supervisor and field consultant. Supervised experience, discussions, and written reports. May be repeated for a maximum of nine credits. Prerequisite: Consent of the department.	1	1
T&ED 4391	INTERNSHIP: TECHNOLOGY AND EDUCATION /FIELD (2) Site-based experience in an educational setting. Thirty hours field experience. Credit given for only one of the following: T&ED 4391/391, T&ED 4387/387. Prerequisite: Admission to College of Education; T&ED 4630/363 (or concurrent enrollment).	2	30

T&ED 4392	DESIGNING TECHNOLOGY INSTRUCTION (3) Principles, strategies, and utilization of the instructional design process will be applied to the development of technology instruction. Focus of the course will be the design, development, facilitation, and evaluation of an original technology workshop presented on campus. Prerequisites: Consent of the department.	3	3
T&ED 4393	CONFERENCE LEADERSHIP (3) Industrial conference methods, purpose, advantages, limitations, techniques. Practice in planning, leading, evaluating and summarizing.	3	3
T&ED 4394	OPERATION OF COOPERATIVE OCCUPATIONAL EDUCATION PROGRAMS (3) Principles, problems and procedures of operating cooperative education programs in secondary and post-secondary educational settings. Focus on program operation in relation to implementing federal laws and state and local plans in Illinois. Used as a trade certification course. Prerequisite: T ED 4384/384 or consent of the department.	3	3
T&ED 4396	INDUSTRIAL SUPERVISION (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Problems, practices, and principles. Overview of organizational objectives through management of human resources. Communication, motivation, change initiating, discipline, delegation skills.		
T&ED 4397	VOCATIONAL GUIDANCE (3) Current concepts of vocational counseling stressing usable materials and practical guidance.	3	3
T&ED 4398	FOUNDATIONS OF OCCUPATIONAL EDUCATION (3) History, objectives, educational principles, legislation, leadership, and practices of occupational education with emphasis on vocational education in the state of Illinois. Used as a trade certification course. Prerequisite: Consent of the department.	3	3

T&ED 4451	QUALITY METHODS FOR INSTRUCTIONAL TECHNOLOGY (3) This course will review the foundational concepts of quality and systems theory in industry and education. Students will then take an applied approach to assessing and implementing quality of instructional and industrial technology systems. Change management, gap analysis, stakeholder issues, formative and summative evaluation, and feedback cycles are all concepts covered in the course. Students will conduct an independent quality assessment.	3	3
T&ED 4452	PLANNING AND FINANCING TECHNOLOGY PROGRAMS (3) An applied approach to issues of financial management and resource generation for technology programs. Focus on the development of proposals for funding of technology programs. Resource allocations and planning for the short and long term management of technology will also be discussed. Each student will develop a proposal for potential submission to a funding agency.	3	3
T&ED 4630	METHODS OF TEACHING VOCATIONAL/OCCUPATIONAL SUBJECTS /FIELD (3) Methods and techniques for teaching vocational, occupational and applied technical subjects including agricultural education; business, management and marketing; health occupations; family and consumer science and industrial technology education. Thirty hours field experience. Used as trade certification course. Writing emphasis course. Prerequisite: ELCF 4500/353; Admission to the College of Education	3	3
T&ED 4740	STUDENT TEACHING IN CAREER AND TECHNICAL EDUCATION SEMESTER 1 (3) Supervised student teaching experience designed for practical application of methods course contents. One hundred clock hours for teaching assisting, tutoring and whole class teaching in the field. To be taken the semester prior to fulltime student teaching at the fulltime student teaching site. Seminar attendance with BE 4750/5750, FCS 4750/5750 and T&ED 4750/5750, Student Teaching Semester II candidates is required.	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	Prerequisites: Admission to the College of Education; T&ED 4630/363 or ED 5450/450 or concurrent enrollment.		
T&ED 4745	CAPSTONE PROJECT (1) Designed to develop and synthesize learning in major. Project includes substantial written paper on a topic or creative work. Analysis and integration of what was learned in candidates major of study. Prerequisites: Senior Standing; consent of department.	1	1

T&ED 4750	STUDENT TEACHING IN TECHNOLOGY EDUCATION (6) Off-campus placement in secondary schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during the semester of student teaching. Credit given only for one of the following: T&ED 370/G, T&ED 4750/375, 5750/375G. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 grade point average in the area of specialization, in professional education, and in all coursework required in the approved program; and a passing score on the subject matter/content area certification test within the last five years.	6	6
T&ED 5315	BUSINESS AND PROFESSIONAL COMMUNICATION (3) Application of the fundamental processes of communication in business and professional simulations, such as conferences, job applications, interviews, reports and research papers. Writing emphasis course. Prerequisites: Consent of department.	3	3
T&ED 5330	MICROCOMPUTER APPLICATIONS LECTURE AND LABORATORY /4/ (3) Application and hands-on experience related to business software using operating systems, and spreadsheet, database, word processing and presentation applications. Prerequisite: Consent of the department.	3	4
T&ED 5346	PRESENTATIONS /LECTURE AND LABORATORY 4/ (3) Techniques, procedures and applications for designing and delivering traditional, electronic and Internet presentations. Emphasis in education, business and industrial settings on developing presentations for delivery of instruction. Prerequisites: Consent of the department.	3	4
T&ED 5347	CYBERSPACE PUBLISHING LECTURE AND LABORATORY /4/ (3) Fundamentals for developing internet publications through the integration of text, graphics, photos, audio, video, and animation using publishing, design and authoring tools	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	and markup languages.		
T&ED 5348	ADVANCED WEB PAGE DESIGN /6/ (3) Advanced techniques for designing, developing, re-designing and managing Web sites. Prerequisites: T&ED 4347/347.	3	6

T&ED 5354	SHOP MAINTENANCE LECTURE AND LABORATORY /6/ (3) Upkeep and care of school shop tools, equipment, and machinery.	3	6
T&ED 5384	ORGANIZATION AND ADMINISTRATION OF COOPERATIVE OCCUPATIONAL EDUCATION PROGRAMS (3) Theoretical concepts, curricular development, and administrative techniques in the operation of work experience career exploration programs. Used as a trade certification course. Prerequisite: T ED 4398/398 or 5398/398G;or consent of the department.	3	3
T&ED 5385	SUPERVISION OF INDUSTRIAL SAFETY (3) History and growth of occupational safety; the Occupational Safety and Health Act of 1970; Workmen's Compensation Insurance; accident records; injury rate accident investigation, analysis and cost; safety program organization; specific industrial safety problems.	3	3
T&ED 5388	TECHNOLOGY, POLLUTION AND THE LAW (3) A study of modern technology as related to methods used to control pollution in our industries. A major focus will be placed on the role played by federal, state, and local laws in controlling industrial pollution. Prerequisite: Consent of the department.	3	3
T&ED 5389	SPECIAL TOPICS IN TECHNOLOGY EDUCATION (1-3) Techniques of teaching new technological concepts or application of technical education to new teaching situations. Prerequisite: Consent of the department.	1	1
T&ED 5390	FIELD EXPERIENCE (1-9) Substantive study and activity planned by the student, university supervisor, and field consultant. Supervised experience, discussions, written reports. (May be repeated for a maximum of nine credits.) Prerequisite: Consent of the department.	1	1
T&ED 5391	INTERNSHIP: TECHNOLOGY AND EDUCATION/FIELD (2)	2	30

Course	Course Description	Credit Hrs.	Contact Hrs.
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	<p>Site-based experience in educational setting.</p> <p>Prerequisite: Admission to College of Education; T&ED 4630/363 (or concurrent enrollment).</p>		
T&ED 5393	<p>CONFERENCE LEADERSHIP (3)</p> <p>Industrial conference methods, purpose, advantages, limitations, techniques. Practice in planning, leading, evaluating and summarizing.</p>	3	3
T&ED 5394	<p>OPERATION OF COOPERATIVE OCCUPATIONAL EDUCATION PROGRAMS (3)</p> <p>Principles, problems and procedures of operating cooperative education programs in secondary and postsecondary educational settings. Focus on program operation in relation to implementing federal laws and state and local plans in Illinois. Used as a trade certification course.</p> <p>Prerequisite: T ED 4384/384 or consent of the department.</p>	3	3
T&ED 5396	<p>INDUSTRIAL SUPERVISION (3)</p> <p>Problems, practices, and principles. Overview of organizational objectives through management of human resources. Communication, motivation, change initiating, discipline, delegation skills.</p>	3	3
T&ED 5397	<p>VOCATIONAL GUIDANCE (3)</p> <p>Current concepts of vocational counseling stressing usable materials and practical guidance.</p>	3	3
T&ED 5398	<p>FOUNDATIONS OF OCCUPATIONAL EDUCATION (3)</p> <p>History, objectives, educational principles, legislation, leadership, and practices of occupational education with emphasis on vocational education in the State of Illinois. Used as a trade certification course.</p> <p>Prerequisite: Consent of the department.</p>	3	3
T&ED 5410	<p>LEGAL PROBLEMS IN TECHNOLOGY AND EDUCATION (3)</p> <p>A survey and analysis of certain special areas of law such as contracts, torts, administrative law, and labor law with particular attention to the case as it relates to the field of occupational education.</p>	3	3
T&ED 5452	<p>PLANNING AND FINANCING TECHNOLOGY PROGRAMS (3)</p> <p>An applied approach to issues of financial management and resource generation for technology programs. Focus on the development of proposals for funding of technology programs. Resource allocations and planning for the short and long term management of technology will also be discussed. Each student will develop a proposal for potential</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	submission to a funding agency.		
T&ED 5482	VOCATIONAL AND TECHNICAL EDUCATION IN FOREIGN COUNTRIES (3) A review of the various vocational and technical programs found around the world and their impact on industrial growth and social progress. The major focus will be on the specific means by which people are trained for industry. Prerequisite: Consent of the department.	3	3
T&ED 5485	METHODS OF TEACHING OCCUPATIONAL CLUSTERS (3) Methods and techniques for teaching subject matter in occupational education organized according to families of occupations or clusters usually in a general or multiple activity school shop or a school production setting. An approach to career education exploration at the middle school level. Prerequisite: Consent of the department.	3	3
T&ED 5486	ADVISORY COMMITTEES IN VOCATIONAL EDUCATION (3) Perspective, understanding, and organization of advisory committees. Focus on the use of advisory committees in secondary and postsecondary educational settings in relation to implementing federal and state laws and local vocational plans in Illinois.	3	3
T&ED 5488	CONTEMPORARY VOCATIONAL EDUCATION IN THE UNITED STATES (3) Rudiments of vocational education as affected by current federal legislation and career education thrusts, formal school and delivery structures, and models for future vocational training in the United States.	3	3
T&ED 5492	PROBLEMS AND TRENDS IN TECHNOLOGY AND EDUCATION (3) Innovative curricular concepts, teaching techniques and technology for contemporary programs.	3	3
T&ED 5494	PROBLEMS IN COOPERATIVE PROGRAMS (3) Workshop sessions covering specific instruction, supervision, and training for teachers seeking state approval as teacher coordinators. In-school vocational instructors of education and office occupations. Prerequisite: Consent of the department.	3	3
T&ED 5495	CURRICULUM DEVELOPMENT IN TECHNOLOGY AND EDUCATION (3) Relationship of community needs and curriculum development. Analysis of educational philosophy and performance objectives to identify learning activities resulting in desired behavior changes.	3	3

T&ED 5496	ADMINISTRATION AND SUPERVISION OF TECHNOLOGY EDUCATION (3)	3	3
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Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Explores problems, practices, and principles entailed in the administration and supervision of modern technology training in secondary education and vocational settings.</p> <p>Prerequisite: Consent of the department.</p>		
T&ED 5497	TESTS AND MEASUREMENTS IN OCCUPATIONAL EDUCATION (3)	3	3
	Design and construction of evaluative exercises and objective tests.		
T&ED 5498	HISTORY AND CONCEPTS OF OCCUPATIONAL EDUCATION (3)	3	3
	Basic concepts and practices of occupational education. History, leadership, and public policy.		
T&ED 5630	METHODS OF TEACHING VOCATIONAL/OCCUPATIONAL SUBJECTS /FIELD (3)	3	3
	<p>Methods and techniques for teaching vocational, occupational and applied technical subjects including agricultural education; business, management and marketing; health occupations; family and consumer science and industrial technology education. Thirty clock hours in field. Used as trade certification course. Writing emphasis course.</p> <p>Prerequisite or co-requisite: ELCF 4500/353/ or ELCF 5500/353G; Admission to the College of Education</p>		
T&ED 5740	STUDENT TEACHING IN CAREER AND TECHNICAL EDUCATION SEMESTER 1 (3)	3	3
	<p>Supervised student teaching experience designed for practical application of methods course contents. One hundred clock hours for teacher assisting, tutoring and whole class teaching in the field. To be taken the semester prior to fulltime student teaching at the fulltime student teaching site. Seminar attendance with BE 4750/5750, FCS 4750/5750 and T&ED 4750/5750, Student Teaching Semester II candidates is required.</p> <p>Prerequisites: Admission to the College of Education; T&ED 5630/363G or ED 5450/450 or concurrent enrollment.</p>		

T&ED 5750	STUDENT TEACHING IN TECHNOLOGY EDUCATION (3) Off campus placement in secondary schools in two or more grade levels. University and cooperating school supervision. Five full days including seminar for 16 weeks. No other courses may be taken during semester of student teaching. Credit given for only one of the following: IT 370/G, T&ED 370/G, T&ED 4750/375, 5750/357G. Prerequisite: Admission to the College of Education; completion of all other coursework in the approved program; a 2.5 cumulative g.p.a. in area of specialization, in professional education, and all required coursework in the approved program; and a passing score on the subject matter/content area certification test within the last five years.	6	6
T&ED 5899	ADVANCED MASTER'S RESEARCH (1-3) Culminating research paper for students following the two-course option for the Master	1	1

Course	Course Description	Credit Hrs.	Contact Hrs.
	of Science Degree in Technology and Education. Prerequisite: T&ED 5490/490 and consent of department. Restricted to T&ED Department masters degree students and/or consent of department.		

Tech, Performance and Studies (TPS)

Course	Course Description	Credit Hrs.	Contact Hrs.
TPS 3500	<p>COMPUTER SYSTEMS TECHNOLOGIES (3)</p> <p>Introduction to computer hardware and knowledge of computer hardware and software various troubleshooting techniques and hands-on real-world experience. Study of microprocessors as well as their architecture, hardware design and hardware/software interrelations are used to solve case studies with practical applications. Obtain knowledge of computer operating systems, install, manage, maintain, and troubleshoot software problems through real-world, hands-on assignments with various operating systems. Course content is enough to take the A+ Certificate Exam. Credit will not be given for both TPS 5500/IT 5220 and TPS 3500/IT 3220 or IT 2220.</p>	3	4
TPS 4010	<p>ETHICS AND ISSUES WITH TECHNOLOGY (3)</p> <p>Theoretical concepts and examination of ethics, morality, legal, social and management issues involved in the use of technology and information.</p>	3	3
TPS 4110	<p>PROJECT MANAGEMENT (3)</p> <p>This course develops a foundation of knowledge, concepts, and skills needed to successfully manage projects across industries, including planning, scheduling, controlling, resource allocation, and relationship management.</p>	3	3
TPS 4210	<p>E-LEARNING STRATEGIES AND TECHNIQUES (3)</p> <p>Strategies, tools, and techniques for designing and delivering instruction using eLearning technologies.</p>	3	3
TPS 4300	<p>FUNDAMENTALS OF INSTRUCTIONAL DESIGN (3)</p> <p>An introduction to contemporary processes and procedures in the design, validation and management of instruction.</p>	3	3
TPS 4510	<p>NETWORK CONFIGURATION I (3)</p> <p>Key concepts in building and configuring network devices. Course covers role played by each interconnected device. Course designed for those who deliver instruction. Additional course fee.</p>	3	6
TPS 4520	<p>NETWORK CONFIGURATION II FOR EDUCATORS (3)</p> <p>Techniques of managing, documenting and configuring interconnected networks and securing information about various network devices. Course designed for those who deliver instruction.</p> <p>Prerequisites: TPS 4510 or IT 2233/233</p>	3	6

TPS 4530	NETWORKING PRACTICUM I FOR EDUCATORS (3) Practical applications in designing and configuring Local Area Networks (LAN); major	3	6
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Course	Course Description	Credit Hrs.	Contact Hrs.
	project required. Course designed for those who deliver instruction. Prerequisites: TPS 4520 or IT 4333/333		
TPS 4540	NETWORKING PRACTICUM II FOR EDUCATORS (3) Practical applications in designing and configuring Wide Area Networks (WAN); major project required. Course designed for those who deliver instruction. Prerequisites: TPS 4510 or IT 2233/233 and TPS 4520 or IT 4333/333	3	6
TPS 4550	NETWORK ADMINISTRATION TECHNOLOGIES (3) The purpose and types of communication technologies that link people, products, and resources via electronic means; the benefits that each networking technology offers education, business and government organizations; and administration and implementation issues. This course prepares students for the (Network +) industrial certificate.	3	3
TPS 4600	APPLIED CYBER SECURITY (3) Covers applied cybersecurity techniques and tools in the following areas: attacks and mitigation, security applications, risk assessment, disaster recovery and incident response, mobile devices security, and vulnerability assessment. Hands-on activities and labs. Case studies on intelligence and cybersecurity. Prepares for Security+ and the EC-Council Certified Ethical Hacker (CEH) certification exams. Credit will not be given for both TPS 4600 and TPS 5600. Prerequisite(s): TPS 3500	3	4
TPS 4605	APPLIED ETHICAL HACKING (3) Covers techniques for hacking applications, websites, database, hosts, and networks. This includes foot-printing, reconnaissance, scanning, enumeration, malware, social engineering, and sniffing. Tools for security hacking, penetration testing, and traffic analysis. Hands-on activities and labs. Case studies on intelligence and cybersecurity. Prepares for Security+ and the EC-Council Certified Ethical Hacker (CEH) certification exams. Credit will not be given for both TPS 4605 and TPS 5605. Prerequisite(s): TPS 4600	3	4

TPS 4610	WIRELESS NETWORKS SECURITY AND DESIGN (3) Necessary knowledge on wireless networks types and technologies, configuration procedures, threats, and security algorithms and protocols. Necessary skills needed to understand the challenges of implementing wireless networks in home and work environments. Credit will not be given for both TPS 4610 or IT 4350 and TPS 5610 or IT 5350.	3	3
TPS 4620	CLOUD COMPUTING AND VIRTUALIZATION (3) Provides an overview for the fundamentals of cloud computing and virtualization and	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
	describes the delivery model of IT resources including applications, computing and storage. Course covers how cloud computing services releases consumers from owning the physical resources and paying for unused services. The concepts of Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS) are covered. Course is supported by hands-on labs which satisfy the VMware Certified Professional (VCP) certification. Prerequisite: Knowledge of IT is recommended.		
TPS 4960	SPECIAL TOPICS (6) In depth study of specific topics related to the field of technology and performance improvement. May be repeated as topics change for a maximum of six (6) hours. Prerequisite(s): Consent of department.	1	1
TPS 5010	ETHICS AND ISSUES WITH TECHNOLOGY (3) Theoretical concepts and examination of ethics, morality, legal, social and management issues involved in the use of technology and information.	3	3
TPS 5050	PROFESSIONAL PRACTICE AND PORTFOLIO I (1) Introduction to the program and assessment process. Students begin the construction of their portfolio, research the history of performance improvement, investigate current trends and job opportunities, and study and apply effective team process techniques. Prerequisite: Consent of department.	1	1
TPS 5060	FUNDAMENTALS OF PERFORMANCE IMPROVEMENT (3) Study and application of the theories, strategies, and practices of the field of performance improvement.	3	3

TPS 5070	INFORMATICS ESSENTIALS (3) Introduction to essential knowledge of computer hardware and software for information professionals. The modules comprise computer assembly, basics of computer troubleshooting, fundamental operating system, portable computing, printers and scanners, network, security, safety procedures in computing, working in the informatics sector, and introduction to industrial certifications. Lecture and laboratory.	3	4
TPS 5080	QUALITY SYSTEMS AND METHODS (3) Study of quality methods, systems and tools and how they are utilized in quality improvement projects. Students will work in groups to conduct an independent quality assessment. Provides the background necessary to sit for the CQIA certification offered by the American Society for Quality.	3	3
TPS 5090	RESEARCH METHODS FOR TECHNOLOGY AND PERFORMANCE IMPROVEMENT (3)	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
	<p>Research methods and their application in the fields of technology and performance improvement. Theoretical principals and practical procedures for planning, designing, conducting, analyzing, and evaluating research using qualitative, quantitative, and mixed methods are introduced. Students also learn to be better consumers and critics of published research.</p> <p>Prerequisites: Student must be accepted into the Masters of Science in Technology and Performance Improvement Studies Program prior to enrolling in TPS 5090.</p>		
TPS 5110	PROJECT MANAGEMENT (3) This course develops a foundation of knowledge, concepts, and skills needed to successfully manage projects across industries, including planning, scheduling, controlling, resource allocation, and relationship management.	3	3
TPS 5120	CHANGE MANAGEMENT (3) This course develops a foundation of knowledge, concepts and skills needed to effectively manage change in organizations.	3	3
TPS 5210	E-LEARNING STRATEGIES AND TECHNIQUES (3) Strategies, tools, and techniques for designing and delivering instruction using eLearning technologies.	3	3

TPS 5220	INTERNET PUBLISHING FOR INFORMATION SPECIALISTS (3) Internet publishing is vital for today's information and communications related careers. This course introduces Information Specialists to Web publishing, HTML, XHTML, and the latest web development tools. Students will become proficient in the key aspects of the cyberspace publishing process. The course is foundational to move towards advanced web development courses. Students will design, develop, and release their own web sites.	3	4
TPS 5230	MULTIMEDIA PRODUCTION (3) Introduction to the design, production and use of multimedia instructional resources for school library media centers and libraries. Applications of communication theory and development of techniques and skills for selection, production and use of media. Hands-on training in the use of computers, desktop publishing and audio-visual recording technology will be undertaken within a cooperative learning environment. Prerequisites: LIS 5050 or LIMS 5340, LIS 5600 or LIMS 5610/454, LIS 5520 or LIMS 5020/402, ED 5999/499 or permission of department.	3	3
TPS 5240	ADVANCED MEDIA PRODUCTION (3) Advanced media production for library and classroom professionals, including web page design and distance learning utilizing traditional and cyberspace techniques. Prerequisites: LIS 5920 or consent of department.	3	5

Course	Course Description	Credit Hrs.	Contact Hrs.
TPS 5300	FUNDAMENTALS OF INSTRUCTIONAL DESIGN (3) An introduction to contemporary processes and procedures in the design, validation and management of instruction.	3	3
TPS 5310	DEVELOPMENT OF INSTRUCTIONAL MATERIALS (3) Design, construction, use and evaluation of instructional materials.	3	3
TPS 5500	COMPUTER SYSTEMS TECHNOLOGIES (3) Introduction to computer hardware and knowledge of computer hardware and software various troubleshooting techniques and hands-on real-world experience. Study of microprocessors as well as their architecture, hardware design and hardware/software interrelations are used to solve case studies with practical applications. Obtain knowledge of computer operating systems, install, manage, maintain, and troubleshoot software problems through real-world, hands-on assignments with various operating systems. Course content is enough to take the A+ Certificate Exam. Credit will not be given for both TPS 5500 or IT 5220 and TPS 3500 or IT 3220 or IT 2220.	3	4

TPS 5510	<p>NETWORKING FUNDAMENTALS FOR INFORMATION SPECIALISTS (3)</p> <p>Course introduces information specialists to fundamental networking concepts and technologies. It is a laboratory and theory course that covers networking technologies and their implementation. The focus of this course is on learning the fundamentals of networking. Key topics: OSI Model, TCP/IP Mode, Networking Media (copper, fiber, wireless, etc.), Networking Devices (Types and Basic Configuration), Networking Protocols Overview, Common Networking Tools (Packet Tracer, Wireshark, etc.). Course is the first course to be taken in preparation to the CCNA exam.</p>	3	4
TPS 5520	<p>NETWORK CONFIGURATION II FOR EDUCATORS (3)</p> <p>Techniques of managing, documenting and configuring interconnected networks and securing information about various networking devices. Course designed for those who deliver instruction. Additional course fee.</p> <p>Prerequisites: TPS 4510 or IT 2233/233</p>	3	6
TPS 5530	<p>NETWORKING PRACTICUM I FOR EDUCATORS (3)</p> <p>Practical applications in designing and configuring Local Area Network (LAN); major project required. Course designed for those who deliver instruction.</p> <p>Prerequisites: TPS 4520 or IT 4333/333</p>	3	6
TPS 5540	<p>NETWORKING PRACTICUM II FOR EDUCATIONS (3)</p> <p>Practical applications in designing and configuring Wide Area Network (WAN); major project required. Course designed for those who deliver instruction.</p> <p>Prerequisites: TPS 4510 or IT 2233/233 and TPS 4520 or IT 4333/333</p>	3	6

Course	Course Description	Credit Hrs.	Contact Hrs.
TPS 5550	<p>NETWORK ADMINISTRATION TECHNOLOGIES (3)</p> <p>Purpose and types of communication that link people, products and resources via electronic means; the benefits that each networking technology offers education, business and government organization; and administration and implementation issues.</p>	3	3

TPS 5600	<p>APPLIED CYBER SECURITY (3)</p> <p>Covers applied cybersecurity techniques and tools in the following areas: attacks and mitigation, security applications, risk assessment, disaster recovery and incident response, mobile devices security, and vulnerability assessment. Hands-on activities and labs.</p> <p>Research studies on intelligence and cybersecurity. Prepares for Security+ and the EC Council Certified Ethical Hacker (CEH) certification exams. Credit will not be given for both TPS 4600 and TPS 5600.</p> <p>Prerequisite(s): TPS 5070</p>	3	4
TPS 5605	<p>APPLIED ETHICAL HACKING (3)</p> <p>Covers techniques for hacking applications, websites, database, hosts, and networks. This includes foot-printing, reconnaissance, scanning, enumeration, malware, social engineering, and sniffing. Tools for security hacking, penetration testing, and traffic analysis. Hands-on activities and labs.</p> <p>Research studies on intelligence and cybersecurity. Prepares for Security+ and the EC Council Certified Ethical Hacker (CEH) certification exams. Credit will not be given for both TPS 4605 and TPS 5605.</p> <p>Prerequisite(s): TPS 5600</p>	3	4
TPS 5610	<p>WIRELESS NETWORKS SECURITY AND DESIGN (3)</p> <p>Necessary knowledge on wireless networks types and technologies, configuration procedures, threats, and security algorithms and protocols. Necessary skills needed to understand the challenges of implementing wireless networks in home and work environments. Credit will not be given for both TPS 4610 or IT 4350 and TPS 5610 or IT 5350.</p>	3	3
TPS 5620	<p>CLOUD COMPUTING AND VIRTUALIZATION (3)</p> <p>Provides an overview for the fundamentals of cloud computing and virtualization and describes the delivery model of IT resources including applications, computing and storage. Course covers how cloud computing services releases consumers from owning the physical resources and paying for unused services. The concepts of Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS) are covered. Course is supported by hands-on labs which satisfy the VMware Certified Professional (VCP) certification.</p> <p>Prerequisite: Knowledge of IT is recommended.</p>	3	4
TPS 5630	<p>DATABASE SYSTEMS AND TECHNOLOGIES (3)</p>	3	4

Course	Course Description	Credit Hrs.	Contact Hrs.
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	Covers advanced database management, system design principles and techniques, and the essentials of database architecture, database management systems, and database systems. Principles and methodologies of database design, and techniques for database application development are also addressed.		
TPS 5920	<p>SURVEY RESEARCH METHODS (3)</p> <p>Study of the effective creation, use, and analysis of surveys; including when survey research is appropriate, methods and ethics regarding the administration of surveys, and the appropriate analysis of results. This course will introduce basic statistical concepts.</p>	3	3
TPS 5960	<p>SPECIAL TOPICS (1-3)</p> <p>In depth study of specific topics related to the field of technology and performance improvement. May be repeated as topics change.</p> <p>Prerequisite: Consent of department.</p>	1	1
TPS 5970	<p>INDEPENDENT STUDY (1-3)</p> <p>Independent study under the direction of a faculty member. May be repeated with different content.</p> <p>Prerequisite: Consent of department.</p>	1	1
TPS 5980	<p>PROJECT SEMINAR (1-6)</p> <p>Individually supervised research as approved by the department. Course content varies and is designed around departmentally approved project or paper. This is a variable credit course that will be repeated until research is accepted by the department. The grade assigned to the course should be T (extended grade).</p> <p>Prerequisite(s): TPS 5090 or consent of department.</p>	1	1
TPS 5989	<p>THESIS SEMINAR (1-6)</p> <p>Individually supervised research as approved by the department. Course content varies and is designed around departmentally approved thesis. This is a variable credit course that will be repeated until research is accepted by the department.</p> <p>Prerequisite(s): TPS 5090</p>	1	1
TPS 5990	<p>PROFESSIONAL PRACTICE AND PORTFOLIO II (2)</p> <p>Prepares the student for graduation and introduction to the work force. Students will finalize their professional portfolio, create resumes, investigate potential career opportunities, and construct a professional development plan.</p> <p>Prerequisite: Consent of department.</p>	2	2

University of Chicago (UC)

Course	Course Description	Credit Hrs.	Contact Hrs.
UC 4020		3	3
UC 5020		3	3

University Without Walls (UWW)

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 1050		4	4
UWW 1060		4	4
UWW 1070		4	4
UWW 1080		4	4
UWW 1090		4	4
UWW 1100		4	4
UWW 1110		4	4
UWW 1120		4	4
UWW 1130		4	4
UWW 1140		4	4
UWW 1150		4	4
UWW 1160		4	4
UWW 1170		4	4
UWW 1180		4	4
UWW 1190		4	4
UWW 1200		4	4
UWW 1210		4	4
UWW 1220		4	4
UWW 1230		4	4
UWW 1240		4	4
UWW 1250		4	4
UWW 1260		4	4
UWW 1270		4	4
UWW 1280		4	4
UWW 1290		4	4
UWW 1300		4	4
UWW 1310		4	4
UWW 1320		4	4

UWW 1330		4	4
UWW 1340		4	4
UWW 1350		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 1360		4	4
UWW 1370		4	4
UWW 1380		4	4
UWW 1390		4	4
UWW 1400		4	4
UWW 1410		4	4
UWW 1420		4	4
UWW 1430		4	4
UWW 1440		4	4
UWW 1450		4	4
UWW 1460		4	4
UWW 1470		4	4
UWW 1480		4	4
UWW 1490		4	4
UWW 1500		4	4
UWW 1510		4	4
UWW 1520		4	4
UWW 1530		4	4
UWW 1540		4	4
UWW 1550		4	4
UWW 1560		4	4
UWW 1570		4	4
UWW 1580		4	4
UWW 1590		4	4
UWW 1600		4	4
UWW 1610		4	4

UWW 1620		4	4
UWW 1630		4	4
UWW 1640		4	4
UWW 1650		4	4
UWW 1660		4	4
UWW 1670		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 1680		4	4
UWW 1690		4	4
UWW 1700		4	4
UWW 1710		4	4
UWW 1720		4	4
UWW 1730		4	4
UWW 1740		4	4
UWW 1750		4	4
UWW 1760		4	4
UWW 1770		4	4
UWW 1780		4	4
UWW 1790		4	4
UWW 1800		4	4
UWW 1810		4	4
UWW 1820		4	4
UWW 1830		4	4
UWW 1840		4	4
UWW 1850		4	4
UWW 1860		4	4
UWW 1870		4	4
UWW 1880		4	4
UWW 1890		4	4
UWW 1900		4	4

UWW 1910		4	4
UWW 1920		4	4
UWW 1930		4	4
UWW 1940		4	4
UWW 1950		4	4
UWW 1960		4	4
UWW 1970		4	4
UWW 1980		4	4
UWW 1990		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 2000		4	4
UWW 2010		4	4
UWW 2020		4	4
UWW 2030		4	4
UWW 2040		4	4
UWW 2050		4	4
UWW 2060		4	4
UWW 2070		4	4
UWW 2080		4	4
UWW 2090		4	4
UWW 2100		4	4
UWW 2110		4	4
UWW 2120		4	4
UWW 2130		4	4
UWW 2140		4	4
UWW 2150		4	4
UWW 2160		4	4
UWW 2170		4	4
UWW 2180		4	4
UWW 2190		4	4

UWW 2200		4	4
UWW 2210		4	4
UWW 2220		4	4
UWW 2230		4	4
UWW 2240		4	4
UWW 2250		4	4
UWW 2260		4	4
UWW 2270		4	4
UWW 2280		4	4
UWW 2290		4	4
UWW 2300		4	4
UWW 2310		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 2320		4	4
UWW 2330		4	4
UWW 2340		4	4
UWW 2350		4	4
UWW 2360		4	4
UWW 2370		4	4
UWW 2380		4	4
UWW 2390		4	4
UWW 2400		4	4
UWW 2410		4	4
UWW 2420		4	4
UWW 2430		4	4
UWW 2440		4	4
UWW 2450		4	4
UWW 2460		4	4
UWW 2470		4	4
UWW 2480		4	4

UWW 2490		4	4
UWW 2500		4	4
UWW 2510		4	4
UWW 2520		4	4
UWW 2530		4	4
UWW 2540		4	4
UWW 2550		4	4
UWW 2560		4	4
UWW 2570		4	4
UWW 2580		4	4
UWW 2590		4	4
UWW 2600		4	4
UWW 2610		4	4
UWW 2620		4	4
UWW 2630		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 2640		4	4
UWW 2650		4	4
UWW 2660		4	4
UWW 2670		4	4
UWW 2680		4	4
UWW 2690		4	4
UWW 2700		4	4
UWW 2710		4	4
UWW 2720		4	4
UWW 2730		4	4
UWW 2740		4	4
UWW 2750		4	4
UWW 2760		4	4
UWW 2770		4	4

UWW 2780		4	4
UWW 2790		4	4
UWW 2800		4	4
UWW 2810		4	4
UWW 2820		4	4
UWW 2830		4	4
UWW 2840		4	4
UWW 2850		4	4
UWW 2860		4	4
UWW 2870		4	4
UWW 2880		4	4
UWW 2890		4	4
UWW 2900		4	4
UWW 2910		4	4
UWW 2920		4	4
UWW 2930		4	4
UWW 2940		4	4
UWW 2950		4	4

Course	Course Description	Credit Hrs.	Contact Hrs.
UWW 2960		4	4
UWW 2970		4	4
UWW 2980		4	4
UWW 2990		4	4
UWW 3000		4	4
UWW 3010		4	4
UWW 3020		4	4
UWW 3030		4	4
UWW 3040		4	4
UWW 3050		4	4
UWW 3060		4	4

UWW 3070		4	4
UWW 3080		4	4
UWW 3090		4	4
UWW 3100		4	4
UWW 3110		4	4
UWW 3120		4	4
UWW 3130		4	4
UWW 3140		4	4
UWW 3150		4	4
UWW 3160		4	4
UWW 3170		4	4
UWW 3180		4	4
U 3190			

Women's Studies (WS)

Course	Course Description	Credit Hrs.	Contact Hrs.
WS 2000	<p>INTRODUCTION TO WOMEN'S STUDIES (3)</p> <p>An overview of women's history, women's movements, and the study of women's lives with attention to race and class.</p>	3	3
WS 2990	<p>Special Topics in Women's Studies (3)</p> <p>In-depth study of a selected subject in Women's Studies. May be repeated under different topics with the approval of the WS advisor.</p>	3	3
WS 3100	<p>SEMINAR IN WOMEN'S STUDIES (3)</p> <p>Feminist theory and methodology across disciplines.</p> <p>Prerequisites: WS 2000/200; junior standing; ENG 1270/1230 and ENG 1280/1240 or consent of the instructor.</p>	3	3

Course	Course Description	Credit Hrs.	Contact Hrs.
ZOOL 2040	<p>BIOLOGY OF ANIMALS LECTURE AND /LABORATORY /6 (4)</p> <p>Diversity of animals. Comparative studies of the structure, reproduction, growth, development, physiology, ecology, natural histories, and evolution of animals. Emphasis on adaptive mechanisms and the importance of animals in human societies, including: medicine, commerce, and as food sources, as well as human impacts on other animals. Additional course fee.</p> <p>Prerequisite(s): ENG 1280/1240, BIOL 1710 and MATH 1200.</p>	4	6
ZOOL 2050	<p>HUMAN FUNCTIONAL ANATOMY LABORATORY /6 (4)</p> <p>A systemic approach to human anatomy. Includes lectures on neural pathways, demonstrations on prosected human cadavers, and student study of skeletons and dissection. Credit not given for both ZOOL 2050/250 and PSLY 202. Additional course fee.</p> <p>Prerequisite(s): ENG 1280/1240 and BIOL 1080 or ZOOL 2040.</p>	4	6
ZOOL 2610	<p>FUNCTIONAL ANATOMY - SUPPLEMENTARY LABORATORY (2)</p> <p>Intensive study of prosected human cadavers; includes detailed practical examinations on human cadaver anatomy. Students should plan to spend several hours per week in the laboratory outside of class time. Additional course fee.</p> <p>Prerequisite: ZOOL 2050/250 or equivalent and enrollment as a physical therapy or occupational therapy major, or consent of the instructor.</p>	2	2
ZOOL 4400	<p>SELECTED TOPICS IN ZOOLOGY LECTURE AND LABORATORY/1-6 (1-4)</p> <p>In-depth study of selected topics in zoology. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics.</p> <p>Prerequisite: Consent of the department.</p>	1	1
ZOOL 5400	<p>SELECTED TOPICS IN ZOOLOGY (1-4)</p> <p>In-depth study of selected topics in zoology. Subject matter for each selected topic will be determined by instructor and student interests. Course may be repeated under different topics.</p> <p>Prerequisite: Consent of the department.</p>	1	1