

100· COURSE DESCRIPTIONS

ACCOUNTING COURSES (ACT)	
ACT 2291	Principles of Accounting I (3) Modern financial accounting theory and practices applied to sole proprietorships, partnerships, and corporations. All Students must complete this course with a grade of C or better.
ACT 2292	Principles of Accounting II (3) Modern financial and managerial accounting theory and practices applied to an organization's liabilities, cash flows, planning, budgeting, and control. All Students must complete this course with a grade of C or better.
ACT 3355	Internal Auditing (3) Internal auditing theory as contained in official pronouncement (IIASB, COSO, COBIT, Sarbanes-Oxley). Emphasis will be placed on material required for the CPA exam as it relates to professional ethics, audit engagement procedures, internal control, audit sampling, evidence gathering and auditor's reports.
ACT 3357	Financial Reporting & Analysis I (3) Study of financial accounting concepts and principles related to financial reporting emphasizing income measurement and accounting for assets. Accounting majors must complete this course with a grade of C or better.
ACT 3358	Financial Reporting & Analysis II (3) Study of accounting concepts and principles related to financial reporting of long-term debt, owners' equity and other special items. Accounting majors must complete this course with a grade of C or better.
ACT 3360	Entrepreneurial Accounting (3) This course covers small business accounting basics that assist business owners in making business decisions based on accounting information. It emphasizes the triple bottom line reporting that refers to reporting on a company's economic, social, and environmental performance.
ACT 3365	Corporate Financial Reporting (3) An analysis of the financial reporting issues faced by managers, including preparing, understanding, and analyzing financial reports.
ACT 3391	Intermediate Accounting I (3) Theory and applications of assets, liabilities, and owners' equity, revenues, expenses, and analytical process. Accounting majors must complete this course with a grade of C or better.
ACT 3392	Intermediate Accounting II (3) Theory and applications of assets, liabilities, and owners' equity, pensions, leases, earnings per share, and analytical process. Accounting majors must complete this course with a grade of C or better.
ACT 3394	Governmental Accounting (3) <b>Analysis of governmental and not-for-profit accounting issues including the preparation and use of budgets, records and statements. Accounting majors must complete this course with a grade of C or better.</b>
ACT 3395	Managerial/Cost Accounting I (3) An analysis of issues dealing with cost accounting and cost management in the global economy from the viewpoint of management, including calculating product costs and period expenses, cost systems for accumulating and managing costs, analyzing cost behavior for tactical decisions, introduction to activity-based costing, ethical principles for management accountants, measuring the costs of quality, and preparing the master budget. <b>Accounting majors must complete this course with a grade of C or better.</b>
ACT 3396	Accounting Information Systems (3) Principles underlying establishment of complete accounting systems; applications to typical business organization; emphasis on the function in the functions > un

- ACT 4481 Professional Development – Forensic Accounting (1)  
Analysis of current developments and requirements for entry into the forensic accounting profession. Accounting majors must complete this course with a grade of C or better.
- ACT 4482 Professional Development – Management Accounting (1)  
Analysis of current developments and requirements for entry into the management accounting profession. Accounting majors must complete this course with a grade of C or better.
- ACT 4485 Fraud Examination I (3)  
The study of legal issues related to fraud

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UAS systems. UAS operations within the National Airspace System and existing and proposed Federal Aviation Administration regulations will be extensively covered. Students will understand the basic physics of atmospheric flight.

- AFT 2202 Principles of UAS Design (3)  
An in-depth look at military and civilian UAS designs. The Northrop-Grumman Global Hawk, General Atomics Predator, micro-UAVs and U.S. Army small reconnaissance vehicles will be featured.
- AFT 2204 Principles of UAS Sensors & Sensing Systems (3)  
Course will cover the design considerations, packaging, and employment of various sensors and systems for UAS. Electro-optical, Forward Looking Infrared, low light, electronic sensing, and other remote sensors will be featured. Systems Integration Factors in Platform Selection is included.
- AFT 2206 Human Factors in UAS Operations & Accidents (3)  
The physical, emotional, and environmental aspects of military and civilian UAS operations will be analyzed. The impact of human error including workload, fatigue, poor situational awareness, inadequate training, lack of crew coordination and poor ergonomic design on increasing UAS accident rates will be discussed. The effects of the unique remote piloting environment on mental workload will be considered.
- AFT 2208 Legal & Ethical Considerations for UAS Operations (3)  
Discuss FAA guidelines and ethical issues, including international laws of war. Case studies on drone strikes, police surveillance, and other relevant topics.
- AFT 2210 Real World Applications (3)  
Using UAS technology in the real world, such as law enforcement, national security, public affairs, natural resources, forest fire detection, remote sensing, aerial surveillance, oil-gas exploration, transportation, conservation, and scientific research. Case studies in actual applications.
- AFT 2212 UAS Piloting Familiarization (3)  
This will be a laboratory split between construction and actual UAS piloting. The student will learn basic flight and mission planning techniques.
- AFT L 214 R22 Helicopter Private Pilot 1 Lab (2)  
This course covers aviation fundamentals as required by Federal Aviation Regulations for students pursuing a Private Pilot Certificate. Ground topics covered include helicopter components and systems, instruments, basic aerodynamics, principles of helicopter flight, airport and heliport operations, performance and limitations, airspace, Federal Aviation Regulations,

regulations, and taking the FAA Commercial Pilot Helicopter Knowledge Test. The flight course will further develop private pilot level skills and introduce fundamentals commercial flight skills and knowledge necessary to safely operate a helicopter in VFR environments, day and night cross country flights, solo flights and as Pilot in Command. Topics covered include flight planning, off-airport operations, basic commercial maneuvers, instrument flight and aeronautical decision making. This course will consist of 57.5 flight hours and 17.5 flight instructor hours for ground, flight instruction and pre/post flight briefings.

AFT L 219 R44 Helicopter Commercial Pilot I Lab (3)  
This course covers aviation fundamentals as required by Federal Aviation Regulations for students engaging in the Commercial Pilot Certificate. Topics covered include a more in-depth study and understanding of aerodynamics of the

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AFT L 225	<p>R 44 Helicopter Instrument Pilot Lab (2)                  This course covers the study of instrument flight fundamentals as required by Federal Aviation Regulations for students pursuing an Instrument rating. Ground topics covered include principles of basic attitude instrument flight and the function of navigational aids/receiving equipment in the IFR environment. This includes holding procedures, Federal Aviation Regulations, ATC communication, and IFR approach procedures. As well as emergency flight procedures and meteorology affects the IFR flight. This flight portion of the course will develop requisite aeronautical skills, knowledge and proficiency to the standards necessary to take the FAA Instrument Written Exam and successfully complete the instrument pilot helicopter flight exam with a FAA designated pilot examiner. Flight topics covered include basic attitude flying, emergency procedures, IFR navigational procedures, IFR approaches, holding, IRL and VOR systems, and cross country flight via instrument navigation. This course will consist of 35 flight hours and 30 flight instructor hours for ground, flight, and pre/post flight briefings.</p>	<p>hours and 10 instructor hours for flight, load pre/post briefings and ground lessons.</p>	
AFT L 250	<p>Airplane Private Pilot Lab I (2)                  This course covers aviation fundamentals as required by FAA regulations Part 61 for students pursuing a Private Pilot Airplane Certificate. Ground topics covered include components and systems, instruments, basic aerodynamics, principles of flight, airport operations, performance and limitations, airspace, Federal Aviation Regulations, aviation weather, navigational assistants, communication, and flight planning. The flight portion of the course develops basic aeronautical skills necessary for the student's first solo flight and completion of the FAA Private Pilot Airplane written exam. Topics covered include gaining proficiency in all procedures and maneuvers necessary for solo flight, night traffic patterns, hazardous flight conditions, and emergency procedures. This course will consist of 27.5 flight hours and 35 flight instructor hours for ground, flight, pre/post flight briefings.</p>		
AFT L 231	<p>R 44 Helicopter Certified Flight Instructor Instrument (CFII) Pilot Lab (3)                  In this course the student will gain the knowledge, skill, and aeronautical experience necessary to meet the requirements for a Certified Flight Instructor Instrument Helicopter Rating. Ground topics covered include review of the Fundamentals of Instruction, principles of attitude instrument flying, ATC procedures, meteorology, and IFR navigational charts. The applicant will obtain the instructional knowledge required to teach these subjects including the recognition, analysis, and correction of common student errors. During the flight training, appropriate maneuvers and procedures will be practiced using visual and instrument references, use proper CRM techniques, exhibit positive exchange of control procedures, and display around ADM skills. The student will obtain the instructional knowledge required to teach these subjects including the recognition, analysis, and correction of common student errors. The student will complete the FAA Certified Flight Instructor Helicopter Knowledge as well as complete the FAA Instructor Instrument Rating Helicopter Practical Test with a FAA designated pilot instructor. This course will consist of 15 flight hours and 16 flight instructor hours for ground, flight, and pre/post flight briefings.</p>	AFT L 252	<p>Airplane Private Pilot Lab II (2)                  This course covers aviation fundamentals as required by FAA regulations Part 61 for students pursuing a Private Pilot Airplane Certificate. Ground topics covered include review and understanding of all aircraft systems and funding requirements necessary to obtain a Private Pilots Certificate to include flight planning and night operations. The flight portion of this course will develop requisite aeronautical skills, knowledge and proficiency to the standards necessary to take the FAA Private Pilot Flight check with FAA designated pilot examiner. In addition, students will also train in night and cross-country flight operations. This course will consist of 27.5 flight hours and 25 flight instructor hours for ground, flight, pre/post flight briefings, 2 additional hours for FAA Private Pilot Practical Test</p>
		AFT L 254	<p>Airplane Instrument Pilot Lab (2)                  This course covers the study of instrument flight fundamentals as required by FAA regulations Part 61 for students pursuing an Instrument rating. Ground Topics covered include being introduced to Principles of basic attitude instrument flight and the function of navigational aids/receiving equipment in the IFR environment. This includes holding procedures, Federal Aviation Regulations, ATC 27.5 flight hours and 57.5 flight instructor hours for ground, flight, and pre/post flight briefings.</p>
AFT L 236	<p>R 44 Helicopter Night Vision Goggle Flight Lab (2)                  The Night Vision Goggle (NVG) course will prepare the student to safely operate a helicopter at night utilizing Night Vision Goggles. This course will consist of 6 flight hours and 8 instructor hours for flight, pre/post briefings and ground lessons.</p>	AFT L 252	<p>Airplane Private Pilot Lab II (2)                  This course covers aviation fundamentals as required by FAA regulations Part 61 for students pursuing a Private Pilot Airplane Certificate. Ground topics covered include review and understanding of all aircraft systems and funding requirements necessary to obtain a Private Pilots Certificate to include flight planning and night operations. The flight portion of this course will develop requisite aeronautical skills, knowledge and proficiency to the standards necessary to take the FAA Private Pilot Flight check with FAA designated pilot examiner. In addition, students will</p>
AFT L 238	<p>R 44 Helicopter External Load Flight Lab (2)                  The external load course will prepare the student to safely operate a helicopter with a jettisonable external load. This course will consist of 15 flight</p>		











- ART 3350 Research and Criticism (3)  
This course is a seminar that addresses the study and methodologies of art as it has been interpreted in the modern and post-modern periods. Students will acquire critical thinking skills and be able to position works of art within broader conceptual frameworks. Attention will be paid to key issues such as authorship, formalism, social art history, feminism, and post

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ART 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)

ART 4496 Internship (3 or 6 credit hours)  
Experiential learning in the context of an art- or design-related profession. Must be approved by the department chair and cooperating host organization or business.

ART 4499 Thesis Exhibition (3)  
Requirement for all graduating art or design majors in a comprehensive program of study. Production of a body of work related to their area of concentration and the production of a written manifesto and statement. All students in the BFA and <<dti>>programs must take this course in one of their last two semesters prior to graduation. This class is not offered in the Summer semester.

should be able to demonstrate intermediate to intermediate plus level conversational skills.

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acute care of injuries and illnesses to the upper extremity.

AT L 397 Evaluation of Athletic Injuries and Illnesses II  
Lab (1)

- BIO L 229 General Ecology Lab (1-3)  
 Introduction to the terminology, procedures and equipment for sampling biotic and abiotic components of ecosystems, the functional and dynamic features of ecosystems, and biotic interactions.
- BIO 3307 Invertebrate Zoology (3)  
 Major and minor phyla of invertebrates with emphasis on anatomy, classification, life histories, and phylogeny.
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- BIO L 307 Invertebrate Zoology Lab (1-3)  
 Anatomy, classification, and life histories of invertebrates.
- BIO 3320 Genetics (3)  
 Principles of heredity, from basic Mendelian concepts through molecular genetics.
- BIO L 320 Genetics Lab (1-3)  
 Basic laboratory techniques in genetics, including the genetics of common laboratory organisms.
- BIO 3325 Plant Form and Function (3) 2SE Form 2  
 The development, structure, and function of plant tissues and organs. Primary emphasis on anatomical, morphological, and physiological features of angiosperms.



		informed, reflective decision maker throughout the internship experience.
BIO L 447	Ornithology Lab (1-3) Structural features, identification, and classification of birds.	
BIO 4448	Mammalogy (3) Morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of mammals.	BIO 4476 Special Topics in Biology (1 to 4 credit hours per course per semester) Specialized topics not generally included in course offerings.
BIO L 448	Mammalogy Lab (1-3) Structural features, identification, and classification of mammals.	BIO 4479 Environmental Assessment (3) An examination of theory and practices required in performing stream environmental assessment as currently practiced by state and federal agencies in their attempt to preserve biological integrity. Sustainable management of natural resources and a systems approach to environmental problem solving will be emphasized. Topics covered include water quality, habitat assessment, indicator species used in ecological inventory with a concentration on macroinvertebrates.
BIO 4451	Toxicology (3) Principles related to the adverse effects of chemicals on living organisms.	
BIO L 451	Toxicology Lab (1-3) Assessment of the toxicity of chemical agents following standard protocols.	
BIO 4460	Critical Issues in Environmental Management (3) An examination of the scientific, social, economic, and political factors that contribute to environmental controversies, along with approaches for resolving disputes.	
BIO 4465	Occupational Safety and Health (3) A study of practical information on occupational safety and health technology, management, and regulatory compliance issues and covering crucial topics like an introduction to industrial hygiene; organizing, directing, and evaluating occupational safety programs; and safety-related laws, regulations, and recordkeeping.	
BIO 4471	Parasitology (3) Taxonomy, structure, life histories, distribution, pathogenesis, and control of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance.	
BIO L 471	Parasitology Lab (1-3) Laboratory study of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance.	
BIO 4474	Internship in Biology Education (9) The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the	



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BIO L 482 Molecular Biology Lab (1-3)  
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings.

BIO 4484 Senior Seminar in Biological & Environmental Sciences (1)  
The senior seminar course integrates knowledge, skills, and concepts acquired in departmental courses. The course is designed to help seniors to 1) prepare for the transition from college to career through a field-related project, and 2) complete a program assessment.

BIO 4485 Principles and Methods for the Laboratory Assistant (1-2)  
This course will provide each student with significant "hands on" experiences in laboratory preparation and laboratory safety. Students will work under the direct mentorship and supervision of the course instructor and will be trained in preparation techniques and organization of laboratory exercises in the biological sciences.

BIO 4488/  
89/90 Internship in Biological or Environmental Science (1 to 3 credit hours per course per semester)  
Supervised work experience in the biotechnology industry, medical field, a governmental agency, business or industry, public service organization, food production or food service industry, or other working environment in which a student will learn and apply pertinent professional skills.

BUS 4493-94

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- CHM L 352 Biochemistry Lab (1)  
This lab illustrates biochemistry lecture material and acquaints the student with biochemistry techniques and equipment.
- CHM 3381 Physical Chemistry I (3)  
Theory and applications of thermodynamics, reaction kinetics, and transport properties with an emphasis on the description of ideal/non-ideal gases and solutions.
- CHM L 381 Physical Chemistry I Lab (1-3)  
Introduction to methods and techniques used in the physical chemistry laboratory, including experiments in calorimetry, phase equilibria, reaction kinetics, and transport properties.
- CHM 3382 Physical Chemistry II (3)  
A continuation of CHM 3381 with an introduction to surface phenomena, quantum chemistry, and spectroscopy with an emphasis on properties of surfaces, atomic and molecular structure, molecular orbital theory, and photochemistry.



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- A historical and legal exploration of national security law in the United States.
- CJ 4406 Transnational Organized Crime (3)  
A critical examination and analysis of major issues, definitions, and controversies associated with organized and transnational organized crime in a modern world. Historical, criminological, and sociological aspects of crime across national and international borders will be studied and researched. Various groups in transnational organized crime will be studied as they impact continents, countries, and globalization.
- CJ 4407 Homicide (3)  
This course is an examination of Homicide and its investigation. Topics will include types of homicide as well as death by natural and accidental cause. The course will review and expand on investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation.
- CJ 4408 Drugs, Alcohol, and Criminal Justice (3)  
This course is designed to explore relevant issues of alcohol and drug use, policy and abuse in American society and its relationship with crime and criminal justice.
- CJ 4415 Correctional Systems and Practices (3)  
An examination of the day-to-day operations and practices in modern correctional facilities in the local, state, and federal systems.
- CJ 4420 Comparative Criminal Justice (3)  
A comparative examination of criminal justice systems throughout the world with specific attention given to legal and political systems, organization and methods of law enforcement, jurisprudence, correctional policies, and practices. Theoretical frameworks, models, and propositions addressing crime across various societies are all,



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- COM 3328 International/Intercultural Communication (3)  
This course is designed to introduce students to the basic concepts, principles, and skills needed for improving communication among persons from different minority, racial, ethnic and cultural backgrounds.
- COM 3341 American Public Address (3)  
Study of the history and rhetorical criticism of major American speakers and their speeches from the Colonial to the Contemporary periods, with references to their biographical, intellectual, political and social contexts.
- COM 3342 Argumentation and Debate (3)  
Study and application of the principles of argumentation and debate, including selected aspects of the management of a program of competitive forensics.
- COM 3345 Group discussion and Leadership (3)  
Study and application of the principles and practices of group problem solving through the study of the dynamics of discussion and group leadership.
- COM 3360

CS 2265    Advanced Programming I (3)





with emphasis on artistry through the contemporary aesthetic.

DAN 1115 Ballet Technique I (2)  
Designed for the dance major, DAN 1115 is the study of beginner/intermediate ballet technique, including safe and efficient alignment and clear



DAN 4410 Dance History I (3)  
A survey of dance history from the 16<sup>th</sup> through the 19<sup>th</sup> centuries, DAN 4410 examines the evolution of dance forms which have been influenced by both cultural world dance and ballet, focusing on the rise

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seeking, bureaucracy, regulation, the size and scope of government, and alternative forms of governance.

ECO 3363 Mathematical Economics (3)  
This course develops the mathematical treatment of theory of firm, household behavior, stabilization policy, growth theory, input-output analysis, and linear programming.

ECO 3365 History of Economic Thought (3)





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ELE 4493-94 Guided Independent Study (1 to 3 credit hours)  
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills.

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### ENGLISH COURSES (ENG)

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ENG 0096 Fundamentals of Grammar and Sentence Writing (3)

Developmental instruction in the basic elements of standard American English grammar

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process, instructions, recommendations, reports, and resumes.

*Note: course is a prerequisite for all required 3300 and 4400-level courses in the Professional Writing Emphasis. Students may take elective courses concurrently with this course.*

- ENG 3301 Women's Literature (3)  
Representative works of literature by women.
- ENG 3305 Folklore/Mythology (3)  
A multicultural survey of the forms and varieties of the mythology and folklore of major western cultures, emphasizing stories of Scandinavian, German, British, and American origin, and the application of these forms in modern cultures and literature. This course is recommended for English teachers seeking middle school certification.
- ENG 3310 Fiction and Film (3)  
Representation of fiction on film, with attention to visual techniques and the translation and representation of major literary themes.
- ENG 3315 Modern Drama (3)  
Study of plays written between 1900 and the present. List of plays may vary with each offering.
- ENG 3320 Introduction to Linguistics (3)  
Overview to linguistics, the scientific study of language. The course will acquaint students with the grammatical, social, biological, and technological applications of language.
- ENG 3326 Science Fiction (3)  
An exploration of the literary, social, and generic importance of science fiction.
- ENG 3341 Advanced Grammar (3)  
Detailed study of the structural system of English grammar.
- ENG 3345 Technical and Professional Editing (3)



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ENG 4427 Contemporary American Literature (3)

ENG 4481

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FINANCE COURSES (FIN)

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- FIN 2210 Personal Financial Planning (3)  
Introduction and comprehensive overview of personal financial planning. Topics include introduction to financial planning, managing assets, credit, insurance, investments, retirement and estate planning.
- FIN 3331 Managerial Finance (3)  
Analysis, planning and control of key financial decisions of the firm.
- FIN 3332 Financial Management II (3)  
Second course in a sequence of corporate finance. Continuation of FIN 3331 with focus on topics in financial management not covered in FIN 3331.
- FIN 3333 Financial Mathematics (3)  
Analysis of time value of money as it applies to loans, securities, banks, annuities, and insurance.
- FIN 3334 Financial Statement Analysis (3)  
The process of understanding financial statements



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involving redundant data. The use of mathematical scripts and least squares software to solve spatial data adjustment problems in land surveying and geomatics applications.

- GEM 3390 Fundamentals of Geographic Information and Analysis (3)  
This course is the first course in a one-year study of the fundamentals of Geographic Information Systems (GIS). Topics of study are digital mapping, data capture, data conversion, data structures, and spatial data concepts. Hands-on exercises are included using some of the common GIS software.
- GEM 3391 Application of Geospatial Information Science (3)  
This course provides a study of common applications of GIS. The course provides further study in database design, digital base map analysis and testing, and spatial analysis. Hands-on exercises are included using some of the common GIS applications.
- GEM 3395 Cooperative Work Experience I (1)  
The course provides students with experience working with an employer approved for the Cooperative Work Experience component of the Surveying and Geomatics Sciences Program. The student is expected to submit a written and oral report to the faculty member directing the project, detailing the work experience.
- GEM 4405 Route and Construction Surveying (3)  
Explores the theoretical foundations of route and construction surveying. Course topics are





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GEO 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)  
Supervised study through field and laboratory projects, guided readings, creative endeavors or achievement of specific skills.

GEO 4498 Honors Independent Study (1 to 3 credit hours)  
Advanced research and study for outstanding students in their major field. Culminates in report to a department committee which includes invited faculty members in related fields.

HIS 1122 World History to 1500 (3)  
This course surveys the origins, development, and character of the major centers of civilizations and their relationships to one another from the earliest civilizations to 1500.

HIS 1123

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influence of developments in science and technology (e.g., introduction of new drugs, transplantation, dialysis, cloning), as well as the cultural, political, and legal contexts of key ethical issues.

- HIS 3375 Research and Methodology (3)  
A course designed to acquaint students with research methods and computer skills as related to the history profession. The principal requirement is the successful completion of a formal research paper in which students will demonstrate proficiency in research, writing, and basic computer skills.





HIS 4486 The Caribbean (3)  
A history of the Caribbean region from pre-Columbian times to the present. Topics will include the indigenous population, European colonialism and its legacy, the impact of slavery and racial diversity in the region, cultural and political revolutions, and the area's relationship with the United States.

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approaches to collective bargaining and labor relations.

HRM 4481 Staffing (3)  
Addresses theory, principles, practices, and legal requirements for effective recruitment, selection, and promotion in organizational settings.

HRM 4482





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directing personnel, securing sponsorships and marketing for multiple events.

~~H-367.0~~4451 Sport Finance (3)  
This course is designed to provide the student with information concerning the basic theories of

topics in the hospitality, sport and tourism industries. Students will also prepare cover letters, resumes, undergo a mock job interviews, develop career path portfolios, and undergo supervised experiences in a related field.

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HUMAN SERVICES COURSES (HS)

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INTERDISCIPLINARY EDUCATION  
COURSES (IED)

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IED 4454 Internship Seminar for Interdisciplinary Education (3)  
This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels, and those of personal interest. The scope of the course includes but is not limited to: state and local law, classroom management, professionalism, professional development for teachers and other course topics.

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IED 4472 Internship in Grades P-12 (9)

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IS 4415      Big Data Analytics and Visualization (3)  
This course introduces best practices of data

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(English), and process and produce an equivalent message intended for an individual using the target language (ASL). Cognitive processing skills will be refined with an emphasis on text and situational analyses and self-evaluation. Interpretations will be rendered consecutively.

ITP 3354 Introduction to Interpreting ASL to English (3)  
This is a theory-to-practice course in which interpreter trainees are required to analyze message input from a person using the source language

ITP 4458 Advanced Interactive Interpreting (3)  
 Course focuses on consecutive and simultaneous interpreting and transliterating. Students will develop skills in team interpreting in interactive settings.

ITP 4462 Practicum I: Seminar and Field Experiences (3)  
 This is a field experience course in which interpreter trainees have the opportunity to interview, observe, interact with and shadow interpreters in public venues.

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ITP 4463 Practicum II: Seminar and Field Experience (3)  
 This is a field experience course in which interpreter trainees have the opportunity to team interpret with credentialed interpreters. Trainees will interpret in one on-one situations for which they are qualb !

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JAPANESE COURSES (JPN)

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JPN 1101    Introductory Japanese I (3)

JRN 4400 Special Topics in Journalism (1 to 3 credit hours)  
Lecture, discussion, and research course designed to acquaint students with special topics in the fields of broadcast and print journalism. May be taken for



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- K HP 1112 Advanced Swimming (1)  
Physical education activity course.
- K HP 1122 Water Aerobics (1)  
Physical education activity course.
- K HP 1124 Beginning Yoga (1)  
Course will introduce students to yoga as a different type of exercise. Students will explore the opportunity for yoga to become a lifetime activity in order to promote health and wellness in their daily routines.
- K HP 1134 Ballroom Dance (1)  
An introduction to social dancing with an emphasis on American ballroom dances (foxtrot, waltz, swing) and Latin ballroom dances (cha cha, mambo, tango). Equivalent to DAN 1134.
- K HP 1139 Fitness for Life I (1)  
Physical education activity course.
- K HP 1141 Jogging (1)  
Physical education activity course.
- K HP 1142 Weight Training (1)  
Physical education activity course.
- K HP 1144 Step Aerobics (1)  
Physical education activity course.
- K HP 1146 Physical Defense for Women (1)  
Physical education activity course.
- K HP 2200 Health Concepts (1)  
A study of health concepts that characterizes



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- K HP 4435 Current Issues in Sport and Fitness Management (3)  
This course is designed to serve as a mechanism for the introduction of new information and technology issues for the sport industry. This course will encourage the undergraduate sport and fitness management student to remain current with contemporary developments in the sports industry.
- K HP 4442 Health Education (3)  
Course focuses on school health organization, services and institutions, grades N-12.
- K HP 4458 Lifecycle Nutrition (3)  
This course provides an examination of nutrition concerns, requirements and metabolism from a biological, psychosocial, and cultural perspective from conception through late adulthood. The impact of nutrition on preconception, pregnancy, lactation, infancy, adolescence, adulthood, and aging will be studied in the context of normal nutrition and nutrition-related special conditions and interventions.
- K HP 4459 Sport and Exercise Nutrition (3)  
This course examines the special dietary requirements of physically active individuals and athletes in training. The course will cover the basics of nutrition and bioenergetics along with current issues such as fad diets and disordered eating, pre-competition meals, sports drinks, mineral supplements, and other various ergogenic aids.
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- K HP 4460 Principles of Strength and Conditioning (3)  
This course will enable the student to develop knowledge and expertise in the areas of strength training, cardiovascular endurance, flexibility, reaction time, speed, and agility in traditional and non-traditional sports. Emphasis will be placed on implementation and measurement of the above programs in conjunction with athletic development.
- K HP L 460 Principles of Strength and Conditioning Lab (1)  
This lab is designed to develop practical knowledge and expertise in the areas of strength training, cardiovascular endurance, flexibility, reaction time, speed, and agility in traditional and non-traditional sports. Emphasis will be placed on implementation and measurement of the above programs in conjunction with athletic development.
- K HP 4462 Physical Education for Exceptional Children (3)  
This course explores programs to serve the needs of the exceptional child in schools. e g
- K HP 4465 Classroom Management and Organization for HPE (3)  
This course will explore the issues of organization, curriculum, and classroom management as they relate to the physical education environment. Directed field requirements will be presented and observation hours will be conducted.
- K HP 4472 Internship in Health/Physical Education (9)  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience.
- K HP 4474 Exercise Physiology (3)  
Physiological mechanisms and adaptations of cells,



160· COURSE DESCRIPTIONS

LAW 4425 Investigation and Evidence (3)  
An examination of theories and practices of the investigation process in the criminal justice system. An analysis of information and application of operational techniques relating to crime scenes, forensic sciences, interviews, and interrogations. A study of issues concerning rules of evidence, trial testimony, and other constitutional processes.

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LEADERSHIP COURSES (LDR)

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SEIP P100 Introduction to Leadership (3)  
This course helps students apply leadership

office practices and procedures, which includes case assignment, document handling and filing, time keeping, billing and law office communication. Furthermore, this course provides the facts and principles that form the basis of law related to Criminal Prosecution and Defense, Bankruptcy, Business Organizations, Litigation, Real Estate, and Estate Planning and Probate.

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#### LIBERAL STUDIES COURSES (LST)

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- LST 3301    Methods in Critical Inquiry (3)  
 A survey of methods used for critical analysis and interpretation. The course presents and evaluates various methodologies and approaches to the collection, analysis, and presentation of data from a critical perspective.
- LST 3310    Critical Theory (3)  
 This course is a survey of the various critical approaches utilized in various disciplines.
- LST 4499    Senior Seminar in Liberal Studies (3)

## 162· COURSE DESCRIPTIONS

MGT 4471 Leadership and Change (3)  
A study of leadership and change concepts applied to foundational concepts of leadership, motivational theories, and organizational change theories. The primary focus of the course will be directed toward the application of these theories, practices, and concepts in an organizational setting, designed to enable an achievement of organizational goals and objectives, while also undertaking application oriented activities that encourage the development of critical thinking skills about the concepts. Emphasis will be placed on key similarities and





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navigation, first aid, and use and maintenance of the M16 Rifle.

MSL 2205 Military Basic Leadership Lab I-B (1) - Leadership lab is required for Army ROTC students. The student and ceremonies, field techniques, squad tactics, map reading and navigation, first aid, and use and maintenance of the M16 Rifle.

MSL 2201 Individual Leadership Studies (2) This course develops the knowledge, confidence and individual leadership skills as well as develops problem solving and critical thinking skills and the application of communication, feedback, and conflict resolution. Emphasized areas include personal development, goal setting, communication, problem solving and decision-making, leadership, teamwork, and group

MSL 2202 Leadership and Teamwork This course focuses on self-development guided by knowledge of self and group processes by focusing on challenging current beliefs, knowledge and skills.

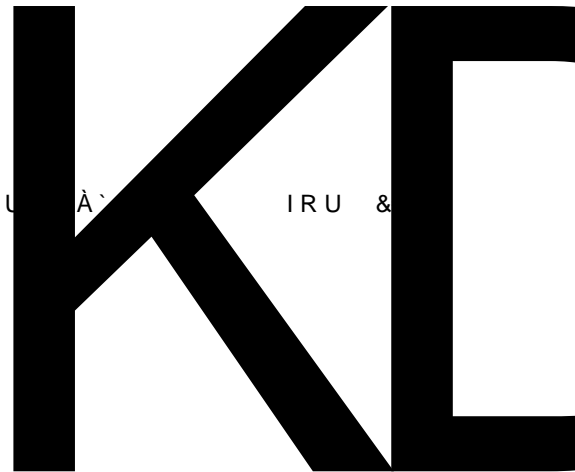
MSL 2204 Military Basic Leadership Lab II-A (1) Leadership lab is required for Army ROTC students. The students will receive training in drill, physical training, rappelling, water survival, tactics, marksmanship, night operations, and land navigation.

MSL 2205 Military Basic Leadership Lab II-B (1) Leadership lab is required for Army ROTC students. The students will receive training in drill, physical training, rappelling, water survival, tactics, marksmanship, night operations, and land navigation.

MSL 3301 Leadership and Problem Solving (3) This course examines the basic skills that underlie effective problem solving by analyzing the role officers played in the transition of the Army from Vietnam to the 21st Century, analysis of military missions and the planning of military operations, the features and execution of the Leadership Development Program, and the execution of squad battle drills.

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MSL 3302 Leadership and Ethics (3) This course explores leader responsibilities that foster an ethical environment.





166· COURSE DESCRIPTIONS

- not covered in regularly offered courses in the mathematics curriculum.
- MTH 3311 Differential Equations (3)  
An introduction to ordinary differential equations. Topics include first order methods, linear equations, the Laplace transforms, systems of equations, and applications.
- MTH 3318 Introduction to Advanced Mathematics (3)  
Topics include set theory, equivalence relations and partitions, logic, number systems, functions, and proof writing techniques
- MTH 3325 College Geometry (3)  
Axiomatic systems; incidence and separation properties of planes and space; metric and synthetic approaches; geometric inequalities; parallel postulate; area-theory; circles in a plane; models for hyperbolic and elliptic geometries; and constructions with a straightedge and compass.
- MTH 3331 Linear Algebra (3)  
Matrices, systems of equations, determinants, eigenvalues and
- MTH 3350 Statistical Methods and Computations (3)  
This course is designed to provide students with a foundation in statistical methods, including data exploring and strategies in sample surveys, estimation and testing hypotheses of means and variances, analysis of variance, regression analysis, contingency tables. These concepts are taught with heavy emphasis on statistical computing software and real world datasets. Students will learn basic skills of SAS, a statistical software package that is widely used in business, industry, government, and research.
- MTH 3355 Survey Sampling (3)  
Topics include sampling frames, questionnaire design, simple random, systematic, stratified, and cluster sampling, comparing domain means, contingency table analysis.
- MTH 3364 Vector Calculus (3)  
Differentiation in several variables. Line and surface integrals. Potential theory and differential
- MTH 4412 Discrete Mathematics (3)  
Topics can include counting techniques such as Pigeonhole Principle, permutations, combinations, binomial coefficients, inclusion-exclusion, and relations and graphs
- MTH 4420 Graph Theory (3)  
The elements of graph theory including: trees; bipartite, chordal and planar graphs; graph coloring; graph traversals; and flows.
- MTH 4422 Numerical Analysis (3)  
Topics include finite differences, interpolation, numerical integration and differentiation, solutions of equations of one variable, linear systems, and numerical solutions of ordinary differential equations.
- MTH 4424 Real Analysis I (3)  
The real number system, completeness, limits,



168 COURSE DESCRIPTIONS

	harmonic progression.	MUI 4435	Music Merchandising (2) Examination of the production, marketing, merchandising and distribution of musical products in the current music marketplace.	
MUI 3325	Recording Studio I (2) An examination of the art of studio recording. The mixing console, microphones, signal processing, and digital recording systems will be studied and experienced.	MUI 4448	Audio Mixing and Mastering (2) An exploration and application of audio mixing and mastering techniques used in contemporary audio production.	
MUI 3326	Recording Studio II (2) In-depth study of audio recording in the studio environment. Remote and studio recording techniques, studio process/protocol, and post production will be studied and experienced. Students will prepare a recording project portfolio.	MUI 4460	Senior Practicum (3) Career preparation	r
MUI 3340	Live Sound Reinforcement (2) An overview of contemporary live sound reinforcement techniques. Students will experience various aspects of working in the live sound environment including: audio component types, venue/acoustical considerations, signal processing/application, specific technical considerations, microphone techniques, mixing techniques, and sound crew protocol.			
MUI 3345	Audio for Producers (2) An overview of audio production in the recording studio environment, including industry-standard process and procedures. In addition, the roles of the producer, engineer, and musician are explored through a series of recording sessions while working in digital audio environments. A final recording project will be completed as a part of the student's portfolio.			
MUI 3346	Studio Repair & Maintenance (2) Course includes basic electric instrument adjustment, maintenance, and repair, common industry standards and guidelines, practical evaluation, and hands-on adjustment and repair.			
MUI 3360	Audio Principles and Techniques II (2) This course is an in-depth examination of audio recording. The curriculum will cover remote and studio recording techniques. The related areas of sound reinforcement and post-production will be covered at length. Students will apply advanced microphone techniques, utilize digital editing and plug-ins, and prepare a recording project portfolio.			
MUI 4410	Arts Management/Concert Production(2) A study of artist management and concert production including show development, venue management, marketing, booking and touring. A music concert production will be developed, staged and presented in a variety of performance environments.			
MUI 4420	Film Scoring (2) Examination of the process and preparation of digital music for film, digital video and animation.			
MUI 4430	Marketing of Recorded Music (2) An in-depth study of the process of studio production, manufacturing, promotion, marketing and distribution of contemporary recordings.			

MUS 1110-4429 Private Instruction (1 credit hour per semester, 1 lesson per week)

1110/2210/3310/4410	Violin
1111/2211/3311/4411	Viola
1112/2212/3312/4412	Cello
1113/2213/3313/4413	String Bass
1114/2214/3314/4414	Piano
1115/2215/3315/4415	Organ
1116/2216/3316/4416	Voice
1117/2217/3317/4417	Clarinet
1118/2218/3318/4418	Oboe
1119/2219/3319/4419	

## 170· COURSE DESCRIPTIONS

- MUS 3346 Educational Psychology & Classroom Assessment in Fine Arts (3)  
This course provides a broad foundation in aspects of assessment and educational psychology.
- MUS 3351 Class Brass (1)  
Group instruction in techniques of playing and teaching brass instruments.
- MUS 3352 Class Woodwinds (1)  
Introduction to each of the principal woodwind instruments, emphasizing teaching techniques suitable for band classes.
- MUS 3353 Class Percussion (1)  
Group instruction in playing and teaching the principal pitched and non-pitched percussion instruments.
- MUS 3354 Class Strings (1)  
Group instruction in techniques of playing and teaching stringed instruments.
- MUS 3356 Class Voice (1)  
Introduction to the use of the singing voice for non-voice principals in music education.
- MUS 3360 Wind and Percussion Methods (1)  
Students will demonstrate theoretical, pedagogical and performance knowledge of/on selected wind/percussion instruments and awareness of instrument materials and rehearsal techniques, and will review the role of the instrumental music educator in music education.
- MUS 3361 Integrating Music into the Curriculum (3)  
Basic skills and methods of presentation and evaluation for music in grades P-6. Role-playing experiences are used to demonstrate appropriate materials, student involvement and motivational techniques.
- MUS 3365 Class Composition (1)  
Creative musical writing, criticism, and study of compositional techniques.
- MUS 3380 Travel Study in Music (1)  
Supervised study of music through travel abroad. May be repeated for credit.
- MUS 3382 Choral Techniques (3)

MUS 4472 Internship in Music Education (9)  
The Professional Internship Program is the  
culminating clinical field-based experience for



172· COURSE DESCRIPTIONS

NSG 2271 Psychosocial Nursing Concepts (2)  
Focuses on the role of the professional nurse



## 174· COURSE DESCRIPTIONS

- NSG 3323 Maternal-Infant Health Nursing (3)  
Explores both normal childbearing families and childbearing families with health alterations in response to internal and external environmental dimensions. Examines the interrelationships among the physical, psychosocial, cultural, and spiritual components of the childbearing experience. Emphasizes evidence-based clinical decisions for the utilization of therapeutic nursing interventions, communication, and collaboration in a caring environment for the promotion of optimal health states of childbearing families.
- NSG 3324 Maternal-Infant Health Nursing Practicum (2-4)  
Provides clinical learning opportunities for students to provide nursing care for childbearing families during the antepartal, intrapartal, postpartal, and neonatal periods. Emphasizes the use of clinical reasoning in the application of the nursing process in facilitating human adaptive responses to childbearing in the provision of safe, quality nursing care.
- NSG 3325 Adult Health Nursing I (3)  
Continues to explore the concept of illness as an alteration in health states. Presents principles of safe, effective medication and intravenous therapy administration. Explore health alterations in adults in response to internal and external environmental dimensions, focusing on surgery, gastrointestinal, endocrine, integumentary, immune, and musculoskeletal systems. Examines selected theories for interrelationships among physical, psychosocial, cultural, and spiritual components. Emphasizes evidence-based clinical decisions in a caring environment for the utilization of therapeutic interventions, communication, and collaboration for promotion of optimal health states in adults.







## 178· COURSE DESCRIPTIONS

PHY 4460 Special Relativity (3)  
In this course, students will be introduced to the principles of relativity and some of its immediate consequences. Topics covered will include inertial observers, time dilation, length contraction, particle dynamics, massless particles, 4-D spacetime, field and energy momentum tensors.

PHY 4470

POL 3342 U.S. Government - Judicial Branch (3)  
An analysis of the American federal judiciary in the context of its relationships to the Constitution, American political processes, the legislative and





PSY 2205



PSY 4459 Applied Behavior Analysis (3)  
This course covers the characteristics of behavior analysis as well as the basics of behavior-change procedures. Students will design, plan, implement, and present a behavior-change project.

PSY 4460 Cognitive Psychology (3)  
A study of human intellectual functioning including attention, perception, memory, problem solving, reasoning and language.

PSY 4470











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 SECONDARY EDUCATION COURSES (SED)
 

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- SED 4400 Classroom Management (3)  
This course is designed for all secondary and P-12 education majors. The purpose of this course is to establish a foundation of content and application relative to classroom management and discipline, emphasizing reflection, decision making, and integrated teaching/learning strategies. Methodologies utilized will include discussion, lecture, field experience, case studies, problem solving sessions, projects, and research.
- SED 4454 Internship Seminar for Secondary Education (3)  
This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile law, classroom management, professionalism, professional development for teachers and other course topics.
- SED 4474 Secondary Internship in Grades 6-12 (9)  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience.
- SED 4481 Methods and Materials for the Secondary Teacher (3)  
Teaching methods, selection, organization and use of materials and resources in the secondary school discipline(s). Observation and teaching experiences will be included.
- SED 4491-92 Guided Independent Research (1 to 3 credit hours)  
Undergraduate research with attention to critical evaluation of research techniques, methods and procedures.
- SED 4493-94 Guided Independent Study (1 to 3 credit hours)  
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills.

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 SOCIOLOGY COURSES (SOC)
 

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- SOC 2275 Introduction to Sociology (3)  
Survey of basic sociological concepts and the effect of social phenomena on individuals, groups and institutions. This course will not count toward the required upper level course hours needed for the sociology or social science minor or major.  
*Prerequisite for all 3000 and 4000 level courses*
- SOC 2280 Social Problems in Contemporary Society (3)  
An examination of conditions that are harmful to society. Topics include problems with social institutions, inequality, deviance, and social change.
- SOC 3300 Social Institutions (3)  
An analysis of several major social institutions, their structural components, processes, and resultant problems. Group interrelations and social change will be emphasized.
- SOC 3301 Collective Behavior and Social Movements (3)  
This course provides an in-depth understanding of the dynamics of collective behavior and social









- geographic information systems, a technology with a wide range of applications. SWK 2281 Social Work Research II (3)  
Introduction to evidenced based assessment and case management to include understanding and using the current DSM and other assessment materials. Introduction to writing assessments based on standardized criteria to include a treatment plan and preliminary measurement of goals. The use of research journal articles and technical and research reports generated by corporate and governmental agencies will be demonstrated.
- SS 4474 Internship in Secondary Social Science Education (9)  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience.
- SS 4481 Methods and Materials for the Secondary Teacher (3)  
A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of history/social science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course.
- SS 4498 Social Science Theory (3)  
A survey of the major theorists in the social sciences, emphasizing those who made critical contributions influencing the several social science disciplines and contemporary theorists whose works have an interdisciplinary element.
- SS 4499 Senior Seminar (3)  
In this course, the senior-level social science student prepares for the transition to graduate school/career. The student explores himself/herself as a person and as a social scientists in an effort to choose a fulfilling career path. In addition to career exploration, students conduct a senior project in an area of interest consistent with their academic program.

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### SOCIAL WORK COURSES (SWK)

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- SWK 2250 Introduction to Social Work (3)  
The student is introduced to the profession of social work. Class focuses on the knowledge, skills and values essential for effective practice. Each student will be provided an opportunity to have direct contact with a practicing social worker.
- SWK 2280 Social Work Research I (3)  
Introduction to statistical analysis concepts and principles necessary for understanding research reports and for the interpretation of data. Use of microcomputer statistical programs in the analysis of univariate, bivariate, and multivariate data including parametric and non-parametric analysis techniques.  
Topics include descriptive techniques, averages and measures of variation, tests of statistical significance, correlation and regression, and analysis of variance.



- dialect. Includes use of the International Phonetic Alphabet.
- THE 2271 Fundamentals of Scenery and Lighting (2-3)  
A study of standard technical practices for the theatre within the scenery and lighting production areas.
- THE 2272 Fundamentals of Costumes and Makeup (2-3)  
A study of standard technical practices for the theatre within the costume and makeup production areas.
- THE 2291 Dramatic Literature I (3)  
A continual, enthusiastic, and serious reading of plays is essential to the developing theatrical artist. Students will read a carefully chosen variety of works for the stage and study their historical context/impact, critical merit, and dramatic structure.
- THE 3300 Fundamentals of Acting (2-3)  
An introduction to the basic principles, terminology, and disciplines of the actor.
- THE 3301 Acting I (2-3)  
A study of basic principles, terminology, and disciplines of the actor, including relaxation, concentration, movement, and characterization.
- THE 3302 Costume Techniques (2-3)  
A study of the techniques of costume construction, including methods of drafting patterns, building and/or modifying costumes, and the application of arts and crafts.
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 TROY UNIVERSITY COURSES (TROY)
 

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- TROY 1101 University Orientation (1)  
 The primary purpose of this course is to assist entering students in acquiring the necessary knowledge and skills to manage effectively the Troy University campus environment in order to maximize their potential for success at the University, in their careers, and throughout their lives.
- TROY 1102 Career Exploration and Planning (1)  
 The primary purpose of this course is to assist students who are undecided in their educational and career plans to identify interests, skills and values, and to develop goals. It also serves to assist non-traditional students considering a career change.
- TROY 1103 College Success Strategies (1)  
 The purpose of this course is to educate and equip Troy University students with information, skills and experiences necessary for current and long term success, both in college and in life.
- TROY 1104 Informed Citizenship (1)  
 This course is designed to examine the role of academic scholarship and the intellectual, civic and interpersonal outcomes of higher education. Through the course, students will engage in a service learning project while studying and reflecting on readings and activities to promote critical thinking skills, civic engagement and student success.
- TROY 1160 Public Issues First Year Seminar (2)  
 Students will develop academic skills needed for college success while exploring civic and global issues faced in the 21st century. Students will develop an understanding of Troy University, career and scholastic development while engaging in critical thinking, readings and a service learning project focused on a public issue.
- TROY 3300 Career Preparation and Job Search Techniques (1-3)  
 The primary purpose of this course is to aid students in making a successful transition from college to career. It also serves to aid non-traditional students in career transition.

