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BIO 3347 Human Anatomy and Physiology I (3)  
Anatomical terminology, survey of cell types and tissues, and detailed coverage of the integumentary, skeletal, muscular, and nervous systems of humans.  
Prerequisites: BIO 1100/100, BIO 2220/ L220, CHM 1142/L142.  
Co-requisite: BIO L2-6.7 tegumenta0032 Tw 1.6b >>BDC /  
Anatomical terminology, survey of cell types and

COURSE DESCRIPTIONS · 124

BIO 4420 Field Vertebrate Zoology (4-7)  
The basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. Prerequisites: BIO 1101/L101, CHM 1143/L143.

BIO 4421 Population Ecology (3)  
Animal and plant populations, food supply, competition, disease, fecundity, distribution, and other environmental facts. Management of endangered species and protected ecosystems are included. Prerequisites: BIO 2229/L229, CHM 1143/L143, STAT 2210. Co-requisite: BIO L421.

BIO L421 Population Ecology Lab (1-3)  
Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. Prerequisites: BIO 2229/L229, CHM 1143/L143, STAT 2210. Co-requisite: BIO 4421.

BIO 4423 Neurobiology (4)  
This undergraduate course is a comprehensive study of the biology of the human nervous system. This course introduces the anatomy and physiology of the central and peripheral divisions of the nervous system. Topics include: neuronal function, synaptic transmission, sensory processing, movement, and clinical disorders of the nervous system. Prerequisites: BIO 3348/L348, BIO 3372/L372

BIO 4425 Field Botany (4-7)  
Survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. sy N24 Botany 314-7Hstw 1(3DC /TT0 1 Tf 0.0003 Tc 16.003 Tw 5.98 -1.26 Td [e





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COURSE DESCRIPTIONS · 128

CHM L350 Principles of Physical Chemistry Lab (1)  
Practical applications of thermochemistry, colligative properties, and reaction kinetics.  
Co-requisite: CHM 3350.

CHM 3352 Biochemistry (3)  
This course describes the molecular basis of life and discusses the structure, function and metabolism of proteins, carbohydrates, lipids and nucleic acids.  
Prerequisites: CHM 3342/L342.  
Co-requisite: CHM L352.

CHM L352 Biochemistry Lab (1)  
This lab illustrates biochemistry lecture material and acquaints the student with biochemistry techniques and equipment.  
Co-requisite: CHM 3352.

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.  
Prerequisite: CHM 3343; PHY 2253 and L253 or PHY 2263 and L263; MTH 1126.  
Co-requisite: CHM L381.

CHM L381 Physical Chemistry I Lab (1)  
Introduction to methods and techniques used in the physical chemistry laboratory, including experiments in calorimetry, phase equilibria, reaction kinetics, and transport properties.  
Co-requisite: CHM 3381.

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 ductility (a)5.4, -14 Tw TTJ 0i4.9 (s)4.1 (u)1.6 (rfaces)4.1git (yth.6 (ant(, )) ]]



- CHM 4491-92 Guided Independent Research (1 to 3 credit hours per course per semester)  
Additional information is listed under Independent Study and Research in the section on Academic Regulations.
- CHM 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester) CJ 3308  
See index for "Independent Study and Research."
- CHM 4499 Senior Seminar (1) CJ 3310  
Principles of preparing and presenting an oral presentation on a selected chemical topic in the current literature.

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CRIMINAL JUSTICE COURSE DESCRIPTIONS

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COURSE DESCRIPTIONS · 134

CS 3333 Introduction to Cryptography (3)

Discussion of mathematical foundations to the theory of cryptography. Topics include information theory, number theory, cryptographic protocols and various algorithms.  
Prerequisite: MTH 1125.

CS 3334 Foundations of Cyber Security (3)

Course provides an introduction to cyber security. Topics include security protocols and cryptography; various kinds of cyber threats and defenses; secure software design and development, attack modeling, risk analysis, cybercrime, cyber law, ethics and policies.

CS 3336 Information Assurance (3)

Topics include software security and lifecycle, identity and trust technologies; verification, access control, privacy, personal responsibility intrusion detection, supply chain management.  
Prerequisites: CS 3325, CS 3334 and CS 3360.

CS 3347 Advanced Programming II (3)

Provides student the opportunity to gain experience and training in an additional high level language. Topics include interactive techniques, arrays, multiple forms, data files and databases, grids, graphics, OLE 0.0015 TpfLLul (CiontP/MCID (ivact6.69 Td (1LE 0.0 langu)7.5 (agell sobe (3) )Tj EMC /n)6.tngu)7t4 ( gTc 0.

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- DAN 3350    Conditioning (2)  
 Designed to complement the dancer's regimen, DAN 3350 will focus on a hybrid conditioning experience to include pilates, yoga, floor barre, jogging, and swimming, improving the dancer's overall strength, stamina, flexibility and muscle tone and will assist in overcoming specific musculature weaknesses.
- DAN 3351    Men's Ballet Technique (2)  
 Designed for male dance majors, the course will focus on the elements necessary for improving the vocabulary of the male dancer, such as jumps, turns, and line. The course will focus on dynamics necessary to increase speed, coordination, and elevation, especially as needed to execute big jumps. Anatomical placement, strength, and musicality will be the emphasis to build confidence in men's variations, in classical and contemporary styles.
- DAN 3352    Pas de deux (2)  
 Designed for the intermediate dance major, DAN 3352 is the study of partnering technique. The course will focus on the elements needed for the female and the male dancer to develop a foundation for dancing together, progressing technically through promenades, lifts, turns, and jumps. The course will introduce special vocabulary that is used only in partnering which enhances the skills needed to become a complete and secure dancer.
- DAN 3353    Anatomy and Alignment (3)  
 This course covers aspects of anatomy and kinesiology that directly apply to correct development of dance technique, emphasizing exercises and imagery for floor and center work to correct insufficient muscle patterns and is designed to give dance majors a practical, functional, and theoretical understanding of kinesiology such as identifying bony landmarks, muscles, and joint actions as well as injury prevention.
- DAN 3354    Improvisation (2)

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levels, and addressing stylistic conventions of technical fields. Includes technical and scientific documents such as reports, proposals, and user manuals.  
Prerequisite: ENG 2260 or permission of instructor.

ENG 3351 Introduction to Creative Writing I (3)  
Practice in writing poetry, short stories, and/or plays, along with a concentrated study of the techniques and principles of creative writing in each genre.  
Prerequisite: six semester hours of 2000-level English courses.

ENG 3352 Advanced Creative Writing I (3)  
Continued practice in writing poetry, short stories, and/or plays, along with a more advanced study of the techniques and principles of creative writing in each genre.  
Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor.

ENG 3353 Advanced Creative Writing II (3)  
Practice in writing poetry, short fiction, or plays for class and instructor evaluation.  
Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor.

ENG 3354 Advanced Nonfiction Writing (3)  
The literature of fact. Emphasis on student writing and analysis of nonfiction forms, such as personal narrative, autobiography, etc. in prose, and New Journalism.  
Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor.

ENG 3355 Verse Writing (3)  
Development of techniques in the practice of poetry, including expression through metrical patterns, rhyme, rhythm, imagery, metaphor, and symbolism.  
Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor.

ENG 3356 Form and Theory of Fiction (3)

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COURSE DESCRIPTIONS · 146

ENG 4406 Studies in British Literature Before 1660 (3)  
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- ENG 4445 Global Anglophone Literature (3)  
Introduces students to a variety of literary masterpieces that explore global writings in English by authors who are not from Europe and North America. This course will explore issues concerning the nativization of English, exile and migration, and the postcolonial concept of the "empire writing back" to its center.  
Prerequisites: Six semester hours of 2000-level English courses.
- ENG 4452 Medieval and Renaissance English Drama (3)  
Survey of drama from the middle ages and Renaissance, excluding Shakespeare. Begins with brief study of folk and liturgical origins of drama, includes a few medieval mystery and morality plays, and features Renaissance plays by Heywood, Udall, Kyd, Marlowe, Beaumont, Fletcher, Jonson, and Webster.  
Prerequisite: Six semester hours of 2000-level English courses.
- ENG 4453 English Drama through the 18th Century (3)  
English drama (excluding Shakespeare) from the 9th through the 18th century.  
Prerequisite: Six semester hours of 2000-level English courses.
- ENG 4455 Multicultural Literature (3)  
A thematic study of minority American writers of various diasporic backgrounds. Works will include fiction and non-fiction by first/second generation immigrants in the United States including those of Native American People, in view of showing how they have contributed to the contemporary multicultural American landscape.  
Prerequisites: Six semester hours of 2200-level ENG courses.
- ENG 4460 Victorian Poetry (3)  
A study of Victorian poetry, with emphasis upon the works of Tennyson, Browning, Arnold, and Hardy.  
Prerequisite: Six semester hours of 2000-level English courses.
- ENG 4461 Victorian Prose (3)  
A survey of the works of major Victorian prose writers, with emphasis upon the works of Carlyle, Newman, Mill, Ruskin, Arnold, and Pater.  
Prerequisite: Six semester hours of 2000-level English courses.
- ENG 4465 African American Literature (3)  
Study of the major African American writers from the beginning of American history to the present.  
Prerequisite: Six semester hours of 2000-level English courses.
- ENG 4466 Advanced Grammar II (3)  
Advanced Grammar II: Descriptive constituent analysis of syntax in the context of generative grammar its relation to syntactic structures and to sentential meaning (semantics), including error/contrastive analysis, and to pragmatics and discourse analysis.  
Prerequisite: ENG 3341
- ENG 4468 Methods and Approaches in Second Language Teaching (3)  
This course traces the evolution of language teaching from the methods era (e.g. grammar translation method, audio lingual method) to post-methods approaches (e.g., task-based learning, content-based learning, communicative approaches). Students will develop a repertoire of teaching approaches, and identify appropriate options for different language teaching scenarios.
- ENG 4470 Practicum and Assessments (3)  
Overview of assessments and application of skills, concepts and principles in supervised experiences related to teaching ESL students. The Practicum is required for the TESOL Certificate.  
Prerequisite ENG 4468
- ENG 4474 Internship in English/Language Arts 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.  
Prerequisite: admission to TEP.  
Co-requisite: SED 4454.
- ENG 4478 Theory and Practice of Composition: Writing and Learning Across the Curriculum (3)  
A study of the methodology of teaching English composition and practice advanced writing  
Prerequisites: Six semester hours of 2000-level English courses.
- ENG 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 in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of English language arts materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course.  
Prerequisite: admission to TEP.
- ENG 4488 Seminar in Professional Writing Portfolio Development (3)  
Senior seminar. and development of a professional portfolio containing carefully selected materials that demonstrate seniors' mastery of specific writing capabilities and skills.  
Prerequisite: senior class standing, ENG 2260, and completion of at least three required courses and three electives in the major, or permission of instructor.
- ENG 4489 Internship (3)  
Practical experience involving writing and editing skills while working under the supervision of the Alabama Literary Review staff.  
Prerequisite: ENG 3352, 3353 or permission of instructor.
- ENG 4490 Professional Writing Internship (3)  
Writing Practicum/Internship at a local industry, publisher, arts or public agency. Provides workplace experiences in solving problems in writing, including those of career preparation and development.  
Prerequisite: ENG 2260, and completion of at least three required courses and three electives in the major, or permission of instructor.
- ENG 4491-94 Guided Independent Research and Study (3)  
Thorough examination of material on a selected subject, requiring a documented research paper. Additional information indexed under "Guided Independent Research and Study."  
Prerequisite: six semester hours of 2000-level English courses. Note: Students who need regimentation of regular classroom to do good academic work should attempt these courses. Also see index for "Independent Study and Research."

COURSE DESCRIPTIONS · 148

ENG 4495 Senior Seminar in English (3)  
A senior-level course capstone designed to engage the student with the central questions of literary studies and to develop the student's skills in critical thinking and writing and in research. Must make a grade of C or better.  
Prerequisite: senior status.

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ENG 4498-99 Honors Research and

	<p>based papers to learn, understand, and use proper citations (APA or MLA) as well as write reflectively and paraphrase/summarize. Students will utilize on-campus library resources and gain knowledge pertaining to reliable and unreliable resources. Upon completion of this course, students will have the ability to write research papers and essays free of plagiarism on both the graduate and undergraduate level.</p>	FIN 3360	<p>Prerequisite: FIN 3331.  <b>Entrepreneurial Finance (3)</b>                  This course covers financial issues related to entrepreneurship. The focus is on how to apply financial tools and skills to entrepreneurial businesses. The topics covered in this course include financial management and planning, financial statement analysis, time value of money, capital budgeting, working capital management and sustainability.                  Prerequisites: FIN 3331, MGT 4475.</p>
ESL 1112	<p><b>Oral Communication Skills</b>                  This course is designed for advanced students who have successfully completed Level VI. The objective of the course is to intensify the listening and speaking skills learned in previous levels and better equip the students with both academic and professional speaking skills. In this course, students will listen to content-based academic lectures. Students will learn to take notes more effectively and to respond critically to those lectures through debates and discussions. Students will also learn how to conduct research, write presentation outlines, and give presentations more effectively. Upon completion of this course, students will have gained greater confidence in their ability to speak English in any situation presented to them and to succeed in their major fields in college.</p>	FIN 4419	<p><b>Derivatives (3)</b>                  This course examines theory and usage of forward contracts, future contracts, index futures, Markov and Wiener processes, Black Scholes analysis, options, Indexed options, and hedging using naked and covered positions, and other nonstandard derivative securities.                  Prerequisite: FIN 3331.</p>
ESL 1113	<p><b>Critical Analysis Skills</b>                  This course is designed for advanced students who have successfully completed Level VI. The objective of the course is to intensify the skills learned in previous levels and better equip students with college-level skills. Students will be reading content-based materials featuring American History, American Literature, and Sociology. Students will learn more academic vocabulary and further develop critical thinking skills to effectively respond to those materials through paragraph writing, summarizing, paraphrasing, and classroom discussions. Upon completion of the course, students will have gained greater confidence in their ability to read and analyze college-level texts.</p>	FIN 4431	<p><b>Intermediate Financial Management (3)</b>                  Analysis of financial management of a firm at the intermediate level, with emphasis on the corporation. Includes more advanced analysis of topics covered in FIN 3331 as well as other advanced topics                  Prerequisites: FIN 3331.</p>
		FIN 4432	<p><b>Investments (3)</b>                  Financial analysis of investments, including markets, institutions, and instruments with emphasis on security analysis, portfolio analysis, and financial planning.                  Prerequisite: FIN 3331.</p>
		FIN 4434	<p><b>Financial Modeling (3)</b>                  This course provides an examination of standard financial models used in corporate finance, financial statement simulation, portfolio problems, options, portfolio insurance, duration, and immunization. The primary focus of study is on the application of strategic models of decision making and marketplace activity within the stimulated environment.</p>

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COURSE DESCRIPTIONS · 150

FIN 4454	Prerequisite: FIN 3336 Public Finance (3) This course examines and analyses public finance from the perspective of the financial management of governmental enterprises. It examines revenues and expenditures at all levels of government, the financial management of government enterprises, and effects of public finance on business and finance and personal finance. Prerequisite: FIN 3331.	FRN 4491/92	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course.	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course.
FIN 4491-92	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course.			
FIN 4493-94	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course.			
FIN 4499	Internship (3) The Finance Internship provides is a supervised work experience that provides students with the opportunity to gain applied work experience their field of study. Students with the opportunity to gain real-world experience in their field of study. Students are interviewed and selected by the individual companies offering the internship. This course may be repeatable and must comply with the SCOB internship policy. See the Economics/ Finance division chair for details.			

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**FRENCH COURSES (FRN)**

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Note: For additional information see Placement in Academic Courses.

FRN 1101	Introductory French I (3) Introduction to the French language and culture.		
FRN 1102	Introductory French II (3) Introduction to the French language and culture. Prerequisite: FRN 1101 or permission of instructor.		
FRN 2201	Intermediate French I (3) Reinforcement of fundamental skills, study of sophisticated language structures and reading of simple French prose and poetry. Prerequisite: FRN 1102 or permission of instructor.		
FRN 2202	Intermediate French II (3) Reinforcement of grammatical skills, reading of simple French prose and poetry, composition and conversation. Prerequisite: FRN 2201 or permission of instructor.		
FRN 3310	French Culture on Location I (3-TBA) An in-depth presentation of French culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy Campus with on-site visit to a Francophone environment. Prerequisite: Permission of instructor.		
FRN 3311	French Culture on Location II (3-TBA) An in-depth presentation of French culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy Campus with on-site visit to a Francophone environment. Prerequisite: Permission of instructor.		







patterns of settlement, social processes, and change in character.

GEO 4411 Population and Society (3)  
This course provides an overview of how to analyze and think about changing population trends in the U.S. as well as around the world. Students will learn how to relate contemporary and pressing problems such as migration, population growth, fertility, death rates, and other population changes to current social and economic policy debates (e.g., funding for Social Security, education, healthcare, etc.).

GEO 4415 North American Geography (3)  
Survey of agricultural, industrial, and commercial development of Anglo-America. Covers physical and cultural environmental resource distribution, economy, and population characteristics.

GEO 4435 Historical Geography of North America (3)  
An analysis of the physical and cultural factors in the development of North America from early European settlement to the present.

GEO 4485 Practicum in < 5c906 Td 5ica7 0 Tc 0.0028 Ty4mp0005 Tc 0.0028 .7 (eri (3)6.9 (l -9.28 d2Suprv)icC,B. ( 0 Td [(ind985 )-12

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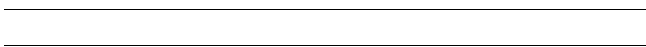
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COURSE DESCRIPTIONS · 154

and testing, and spatial analysis. Hands-on exercises are included using some of the common GIS applications.

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COURSE DESCRIPTIONS · 156

- HIS 4402     Nineteenth Century Europe 1815-1914 (3)  
A study of Europe from the Congress of Vienna to 1900, including political, social, and economic developments in various countries, the rise of nationalism and unification movements, and imperialism.     HIS 4412  
Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.
- HIS 4404     Modern Eastern Europe (3)  
This course examines political, economic, and social developments of nineteenth- and twentieth-century Eastern Europe from the Revolutions of 1848 through the collapse of the Soviet bloc and beyond. The course analyzes the impact of the disintegration of Russian, Ottoman, and Habsburg empires on inter-war Eastern Europe; examines the establishment, development, and eventual collapse of communism in the region; and explores the dynamics of post-Cold War European integration.     HIS 4413  
Prerequisites: HIS 1101 and HIS 1102 or HIS 1122 and HIS 1123 or permission of the instructor.     HIS 4414
- HIS 4405     Old South (3)  
An examination of the cultural, political, religious, and economic trends that shaped the colonial and antebellum South and the Civil War which ended that era.  
Prerequisites: HIS 1111 and 1112 or permission of instructor.
- HIS 4406     New South (3)     HIS 4415  
An examination of the political, social, racial and religious trends and policies that defined the New South. Topics include reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement.  
Prerequisites: HIS 1111 and 1112 or permission of instructor.
- HIS 4407     Jacksonian America (3)  
A study of the emerging American nation. Topics will include Jeffersonian and Jacksonian     HIS 4419





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COURSE DESCRIPTIONS · 160

analysis, job design, recruiting, selection,  
placement, training and development,  
compensation, employee and labor relations, and  
current issues in both the domestic and global  
environments.

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opportunities, with a practical approach that will allow students to understand professional aspects in an applied manner. This course will also cover the multifaceted nature of tourism as an industry including an overview of contemporary terms, contexts, activities, experiences, trends and developments related to working in tourism.  
Prerequisite: HSTM 2220

HSTM 3330 Festivals and Special Events (3)  
This course provides a comprehensive overview of the festival and event industry. Students will be introduced to the various types of festivals and special events as well as their personal, societal, cultural, economic, and environmental consequences. The course also explores management issues and techniques necessary to plan, organize, fund, market, manage, evaluate







creative problem-solving in a professional setting, utilizing the arts integration process and skill sets. Expectations for collaborative goal-setting and measurable beneficial outcomes in partnership with host(s) and other stakeholders.  
Prerequisites: Permission of instructor and IA advisor

- IA 4498 3D Design and Production Internship (3-6)  
Students will identify or be partnered with a business or enterprise for internship to gain applied experience with the skill sets developed in these courses. Includes access to the Virtual and Physical Lab.  
Prerequisites: IA 2220, IA 2230, IA 3320 and IA 3330 or permission of chair

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### INTERDISCIPLINARY STUDIES COURSES (IDS)

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- IDS 1101 Global Challenges (3)  
Students will build knowledge and skills for globally competent citizenship and public service to address global challenges (population, resources, technology, information, economies, governance) faced in the 21st century.
- IDS 2200 Crossroads: Sophomore Interdisciplinary Seminar in Creative Thinking (3)  
This seminar examines specific academic themes from a variety of interdisciplinary perspectives that reach across the human, natural, and social sciences. By capitalizing on the distinctive methodologies offered by faculty members from different academic disciplines, the seminar involves students and faculty in creating original approaches to course.
- IDS 2201 Applications in Public Service (3)  
An overview of strategies for civic enrichment that engage various forms of community capital (social, religious and governing institutions, citizens, and business/economic interests) to address defined civic issues. Focus is given to diagnosing civic

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COURSE DESCRIPTIONS · 168

Prerequisites: Sign Language Proficiency Interview rating of Intermediate Plus, and ASL 2242, EDU 2200 and EDU 3351 with a grade of C or better, or permission of ITP Academic Advisor.

ITP 3368 Interpreting in Specialized Settings (3)  
An introductory course which provides an overview of the ethical considerations, specialized vocabulary and skills needed to interpret in special settings such as performing arts, conferences, legal settings, phone relay, religious and health settings. ITP 4462

Prerequisites: Sign Language Proficiency Interview rating of Intermediate Plus, and ASL 2242 with a grade of C or better or permission of ITP Academic Advisor.

ITP 3375 Introduction to Interactive Interpreting (3)  
This is a theory-to-practice introductory course in interactive interpreting in which students will both observe and practice consecutive interactive interpreting, analyze the parts of the process that go into such interactions and interpretations and analyze the resulting wo

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rating of InterASL 2242, EDU  
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ITP 4467 Interpreting Mentorship I: Sign Language/ English Interpreting (3)  
 Surveys mentoring approaches in interpreter education in the United States. Topics include definitions of mentorship, knowledge and skills needed to mentor, qualities of mentors and mentees, mentorship management portfolios as mentoring tools, and approaches to mentoring in the US. Prerequisites for ITP majors: Only by permission of ITP Academic Advisor on the basis of possessing a nationally validated certification prior to admission and completion of all coursework excluding EDU 4462 and EDU 4463.

ITP 4468 Interpreting Mentorship II: Sign Language/ English Interpreting (3)  
 This course builds on the information presented in Mentoring I, providing opportunities to practice various approaches and develop expertise in interpreting assessment and feedback. Students will develop their own approaches to mentoring and design their Internship project. Prerequisites for ITP Majors: Completion of all coursework excluding EDU 4462 and EDU 4463 or permission of ITP Academic Advisor.

ITP 4469 Interpreting Mentorship III: Sign Language/ English Interpreting Practicum (3)  
 Supervised mentoring experience with intensive application of mentoring skills. Emphasizes practical application of mentoring through ongoing assessment of interpreting and interpreting settings; provides hands-on opportunities to assess, provide feedback, and receive feedback about both interpreting and mentoring skills. Prerequisites for ITP majors: Only by permission of ITP Academic Advisor on the basis of possessing a nationally validated certification prior to admission to ITP. Completion of all course work excluding EDU 4470 and successful completion (grade C or better) ( Tc 0.00342 6 (letionssful))T3DU 4470 and s)9.6 (uccessful))TJ 0.0001 Tcon bettedTc 0.00

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**ITALIAN COURSES (ITL)**

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ITL 1101	Introductory Italian I (3) Introduction to the Italian language and culture.	
ITL 1102	Introductory Italian II (3) Introduction to the Italian language and culture Prerequisite: ITL 1101.	JRN 3300

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**JAPANESE COURSES (JPN)**

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JPN 1101	Introductory Japanese I (3) Introduction to the Japanese language and culture.	JRN 3302
JPN 1102	Introductory Japanese II (3) Introduction to the Japanese language and culture. Prerequisite: JPN 1101 or permission of instructor.	
JPN 2201	Intermediate Japanese I (3) Progressive development of basic language skills in Japanese. Prerequisite: JPN 1102 or permission of instructor.	JRN 3312
JPN 2202	Intermediate Japanese II (3) Progressive development of basic language skills in Japanese. Prerequisites: JPN 2201 or permission of instructor.	JRN 3315

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**JOURNALISM COURSES (JRN)**

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Note: Reasonable proficiency in keyboarding (25 wpm) is a prerequisite for all journalism courses except COM 1101 and JRN 1103.

JRN 1100	Technologies in Journalism (3) An introduction to the technological advances in journalism and the promotion of an understanding of the impact of these advancements. Must make a C or better.	JRN 3318
JRN 1102	Writing for the Mass Media (3) A basic course in preparing written materials for the mass media and for online communication, with emphasis on using Associated Press style and writing leads. Prerequisites: ENG 1101, 1102, JRN 1100, with grade of C or better in each course. May be taken concurrently with JRN 1100. Must make at least C or better in JRN 1102 before taking JRN 2201.	JRN 3326
JRN 1103	Introduction to Radio and Television (3) An introduction to the electronic forms of mass communication with discussions on the theoretical and business aspects of radio and television, cable and corporate video communications, and an introduction to programming and regulations.	
JRN 2201	Reporting (3) Gathering, evaluating and reporting the news for traditional and online media. Prerequisite: Completion of JRN 1102 with grade of C or better. Must make at least C or better in JRN 2201 before taking 3000 level or higher Journalism courses.	JRN 3327 JRN 3330
JRN 2211	Editing and Design (3) Editing copy and video, headline writing, layout and design for print, video and electronic publications plus time communications. Prerequisites: JRN 1100 and 1102. Must make a C or better in JRN 2211 to receive credit toward degree.	JRN 3335
JRN 2289	Social Media Practicum (1) Social Media has become an instrumental tool of communication for businesses and organizations of all sizes. Understanding how to use social media	

include newsgathering through multiple digital methods and storytelling across multiple platforms from the field. Smartphones or computer tablets are required.







COURSE DESCRIPTIONS · 174

of the beneficial effect of regular physical activity on reduced mortality from all causes including cardiovascular diseases and metabolic disorders  
Prerequisites: Grade of "C" or better in BIO 3348/L348 and KHP 4474/L474

KHP 4427 Health and Fitness Education (3)  
This course will discuss how to educate various age groups on health and fitness-related components of physical fitness, health behavior, and their application to health practice.  
Prerequisite: KHP 2240.

KHP 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

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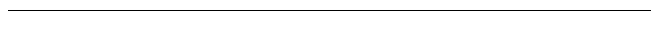
- Prerequisite: LAW 2221.
- LAW 4425 Investigation and Evidence (3)  
An examination of theories and practices of the investigation process in the criminal justice system. An analysis of information and application of operational techniques relating to crime scenes, forensic sciences, interviews, and interrogations. A study of issues concerning rules of evidence, trial testimony, and other constitutional processes.  
Prerequisites: LAW 2221.
- LAW 4465 Special Topics in Law (3)  
This course examines a selected legal topic of interest that is not covered in other course offerings. The topic for the semester will be indicated in advance. Students may repeat the course for credit so long as the selected topics are different. Maximum credit of six hours.  
Note: This course may not be substituted for any required course.

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**LEADERSHIP COURSES (LDR)**

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- LDR 1100 Introduction to Leadership (3)  
This course helps students apply leadership knowledge, skills and techniques to campus and community activities. Practical exercises, role-playing, class interaction and lecture / discussion with established leaders reinforce learning and aid each student in developing a personal leadership plan.
- LDR 2200 Tools for Leaders (3)  
This course helps developing leaders use tools essential to effective leadership including briefing, writing, delegation, media relations, meeting management and group dynamics skills.  
Prerequisite: LDR 1100.
- LDR 2210 Leadership and Interpersonal Skills (3)  
This course will focus on analyzing and applying the theories and research regarding the interpersonal skills required for leaders. Emphasis will also be placed on enhancing and developing interpersonal leadership skills in each student
- LDR 2220 Contemporary Issues of Women and Leadership (3)  
Through an understanding and analysis of culture and current issues, this course will help each student explore the capabilities and leadership women bring to organizations. Through an application of models, styles, and theory, students will develop better self-awareness and understand the unique capabilities of women in leadership.











COURSE DESCRIPTIONS · 180

Prerequisite: MKT 3300.

MKT 4468

Global Marketing (3)

This course examines the impact the global environment has on marketing strategy. Topics focus on the cultural, political, legal, and economic differences among nations that affect marketing opportunities and operations.

Prerequisites: Lower level Core, MKT 3300

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Global Marketing (3)

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**MILITARY SCIENCE AND LEADERSHIP  
COURSES (MSL)**

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- MSL 1101 Foundations of Officership (1)  
This course features an introduction to life in the U.S. Army. Topics include leadership, the unique duties and responsibilities of officers, the organization and role of the Army, basic life skills pertaining to fitness and communication, and an analysis of Army values and expected ethical behavior.  
Co-requisite: MS 1104.
- MSL 1102 Basic Leadership (1)  
This course provides students with a basic knowledge of common military skills and presents the fundamental leadership concepts and doctrine of the U.S. Army. Topics include the practice of basic skills that underlie effective problem solving, application of active listening and feedback skills, examination of factors that influence leader and group effectiveness, and an examination of the officer experience.  
Co-requisite: MS 1105.
- MSL 1104 Military Basic Leadership Lab I-A (1)  
Leadership lab is required for Army ROTC students. The student will receive training in drill and ceremonies, field craft, individual movement techniques, squad tactics, map reading and land navigation, first aid, and use and maintenance of the M16 Rifle.
- MSL 1105 Military Basic Leadership Lab I-B (1)  
Leadership lab is required for Army ROTC students. The student will receive training in drill and ceremonies, field craft, individual movement techniques, squad tactics, map reading and land navigation, first aid, and use and maintenance of the M16 Rifle.
- MSL 2201 Individual Leadership Studies (2)  
This course develops the knowledge of self, self-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, the group.  
Co-requisite: MS 2204.
- MSL 2202 Leadership and Teamwork (2)  
This course focuses on self-development guided by knowledge of self and group processes by focusing on challenging current beliefs, knowledge and skills.  
Co-requisite: MSL 2205.



	Prerequisite: MTH 1110 or 1112. Note: Credit will not count toward Area III requirements nor will it count toward any major or minor in mathematics.	MTH 4426	Complex Analysis (3) Complex numbers, elementary functions and their mappings, complex limits and power
MTH 3300	Selected Topics (3) Examination of a designated topic of special and/or current interest and importance, which is generally not covered in regularly offered courses in the mathematics curriculum.	MTH 4436	
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. Prerequisite: MTH 2227.	MTH 4437	
MTH 3318	Introduction to Advanced Mathematics (3) Topics include set theory, equivalence relations and partitions, logic, number systems, functions, and proof writing techniques Prerequisite: MTH 1126.	MTH 4441	
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. Prerequisite: MTH 3318.	MTH 4442	
MTH 3331	Linear Algebra (3) Matrices, systems of equations, determinants, eigenvalues and eigenvectors. Prerequisite: MTH 1126.		
MTH 3364	Vector Calculus (3) Differentiation in several variables. Line and surface integrals. Potential theory and differential forms. Prerequisite: MTH 2227.	MTH 4460	
MTH 4412	Discrete Mathematics (3) Topics can include counting techniques such as Pigeonhole Principle, permutations, combinations, binomial coefficients, inclusion-exclusion, and relations and graphs. Prerequisites: MTH 2227 and 3318.	MTH 4474	
MTH 4415	Introduction to Partial Differential Equations (3) Partial differential equations and boundary value problems, Fourier series, the heat equations, vibrations of continuous systems, the potential equation, spectral methods. Prerequisites: MTH 3311 and MTH 3331		
MTH 4420	Graph Theory (3) The elements of graph theory including: trees; bipartite, chordal and planar graphs; graph coloring; graph traversals; and flows. Prerequisites: MTH 2227 and 3318 or permission of instructor.	MTH 4480	
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. Prerequisites: MTH 2220, 2227 and 3331, or permission of instructor.	MTH 4481	
MTH 4424	Real Analysis I (3) The real number system, completeness, limits, continuity, sequences, differentiation, and the Riemann integral. Prerequisites: MTH 2227 and 3318.		
MTH 4425	Real Analysis II (3) Sequences and series of functions, series, and a continuation of the integral to include the Fundamental Theorem of Calculus Prerequisite: MTH 4424.	MTH 4490	





- MUI 4499 Music Industry Internship (9)  
Students will be assigned an internship position in the music industry. The intern will be supervised by a music industry faculty member.  
Prerequisite: MUS 4460.

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### MUSIC COURSES (MUS)

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- MUS 1102 Music Theory I (3)  
Study of music fundamentals including rhythm and meter, note names, intervals, major and minor scales, key signatures, triads, seventh chords, cadences, introduction to Roman Numeral and Macro analysis, non-chord tones and suspensions, and beginning part-writing.  
Co-requisites for music majors: MUS 1105, 1107.

- MUS 1103 Music Theory II (3)  
Study of diatonic and chromatic harmony including secondary dominant functioning chords, borrowed chords, Neapolitan chord, and augmented sixth chords, modulation, advanced part-writing, and intermediate-level harmonic analysis.  
Prerequisite: MUS 1102.  
Co-requisites for music majors: MUS 1106, 1108.

- MUS 1105 Class Piano I (1)  
Introduction to basic keyboard musicianship and music reading skills. Focuses on beginning improvisation techniques, harmonization and beginning chorale playing.

- MUS 1106 Class Piano II (1)  
Development of piano technique and keyboard skills. (Use 08 Tc 05 Tw T\* (i33 -0.953333 [(beginning)(ing)6.97(. )]TJ 7T2d )-9(is, igh

COURSE DESCRIPTIONS · 186

MUS 2207	Aural Skills III (1) Advanced sight-singing and rhythmic reading, melodic, harmonic and rhythmic dictation including chromatic harmonies, and interval and chord quality identification. Prerequisite: MUS 1108.	MUS 3360	Wind and Percussion Methods (1) Students will demonstrate theoretical, pedagogical and performance knowledge on selected wind/ percussion instruments and awareness of instrumental materials and rehearsal techniques, and will review the role of the instrumental music educator in music education.
MUS 2235	Listening to Jazz (3) An exploration of jazz in American culture.	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. Prerequisite: MUS 1131.
MUS 2240	World Music Cultures (3) A survey of diverse musical traditions from around the globe. Musical cultures are approached anthropologically, and each culture will be examined to understand how music is entwined with human experience.	MUS 3365	Class Composition (1) Creative musical writing, criticism, and study of compositional techniques. Prerequisite: permission of instructor.
MUS 2245	Classic Vinyl: Rock and Roll Revisited (3) An exploration of Rock and Roll in American culture.	MUS 3380	Travel Study in Music (1-3) Supervised study of music through travel abroad or within the United States. May be repeated for credit. Prerequisite: permission of instructor.
MUS 2250	Survey of Western Music History I (3) This course traces the development of Western music from the ancient and medieval worlds through the Renaissance and baroque periods.	MUS 3382	Choral Techniques (3) Organizational and instructional strategies for teaching music through performance in choir. Includes a field experience component. Prerequisite: MUS 1103 and junior standing.
MUS 2251	Survey of Western Music History II (3) This course traces the development of Western music from the 18th century through the classical, romantic and contemporary periods.	MUS 3384	Band Techniques (3) Organizational and instrumental strategies for teaching music through performance in band. Includes a field experience component. Prerequisite: MUS 1103 and junior standing.
MUS 3305	Music Technologies (3) Study of the applications of the microcomputer to music teaching and technology management, planning, and record-keeping tasks of the music educator.	MUS 3385	Symphony Band (1) Select concert organization for performance of advanced literature for band and wind ensemble. Prerequisite: Audition.
MUS 3306	Conducting (3) Basic conducting techniques for instrumental and choral groups. Includes score study, rehearsal techniques and interpretation of various styles. Prerequisite: MUS 1103.	MUS 3386	Jazz Ensembles (1) Select ensemble for performance in a wide variety of jazz styles. Prerequisite: Audition.
MUS 3335	Choral Leadership (1) Intensive score study, performance practices, and conducting practice of standard repertoire.	MUS 3387	Concert Chorale (1) This mixed chamber choir performs challenging classical, traditional, and contemporary choral repertoire. Prerequisite: Audition.
MUS 3340	Diction for Singers (1) Focuses on student understanding and application of singing of the English, Italian, Latin, German and French languages through use of the International Phonetic Alphabet and appropriate art song repertoire. Prerequisites: ENG 1102, MUS 2216.	MUS 4400/01/02	Selected Topics (1-3 per course) Detailed investigation of a specialized topic not covered in regularly offered courses, or an advanced section for intensive study.
MUS 3341	Vocal Pedagogy (1) A study of vocal teaching methods with an emphasis on application for private voice and choral teachers. This course also includes a review of vocal/choral pedagogical literature. Prerequisite: MUS 2216.	MUS 4403	Classroom Management for the Music Educator (3) The purpose of this course is to establish a foundation of content and application relative to classroom management for the music educator (P-12). Provides opportunities for analysis and application of behavior management techniques in general music and performance-based pedagogical settings.
MUS 3346	Educational Psychology & Classroom Assessment in Fine Arts (3) This course provides a broad foundation in aspects of assessment and educational psychology.	MUS 4430	Flute Choir (1) This course is designed to increase student knowledge of flute choir repertoire through performance, listening, and discussion.
MUS 3351	Class Brass (1) Group instruction in techniques of playing and teaching brass instruments.	MUS 4431	Trumpet Ensemble (1) Ensemble course open to all students.
MUS 3352	Class Woodwinds (1) Introduction to each of the principal woodwind instruments, emphasizing teaching techniques suitable for band classes.	MUS 4432	Percussion Ensemble (1) Ensemble course open to all students.
MUS 3353	Class Percussion (1) Group instruction in playing and teaching the principal pitched and non-pitched percussion instruments.	MUS 4433	Clarinet Choir (1) Ensemble course open to all students.
MUS 3354	Class Strings (1) Group instruction in techniques of playing and teaching stringed instruments.	MUS 4435	Campus Concert Band (1) Ensemble course open to all students.
MUS 3356	Class Voice (1) Introduction to the use of the singing voice for non-voice principals in music education.		











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Prerequisite: PSY 2230 and an additional three semester hours of psychology.

PSY 4430 Intro to Substance Abuse Counseling (3)  
This course provides an introduction to substance abuse counseling through studies of mind-altering substances; etiological theories of addiction; assessment interviewing and screening tests;





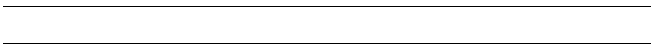
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COURSE DESCRIPTIONS · 202

RED 4491-92 Guided Independent Research (1 to 3 credit hours)  
Undergraduate research with attention to critical evaluation of research techniques, methods and procedures.  
Prerequis-6.061 -3.333T9





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COURSE DESCRIPTIONS · 206

Office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."

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. SOC 3331  
Prerequisites: Junior or senior status, permission of guiding professor, approval of department chair and the dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."

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**SOCIOLOGY COURSES (SOC)**

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SOC 2275 Introduction to Sociology (3) SOC 3332  
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

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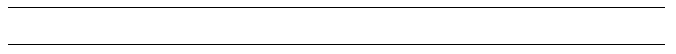


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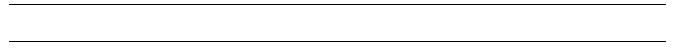
COURSE DESCRIPTIONS · 212

diagnostic checking techniques, nonlinear regression,  
and logistic regression. Computations are an integral  
part of the course and will involve the use of SAS  
and R statistical software and will

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COURSE DESCRIPTIONS · 214

- THE 2211 Theatre for Youth (1-3) THE 3303  
Provides introductory exposure to the field of Theatre for Young Audiences, including hands-on experience in skills related to performance, production, literature, criticism and development, and pedagogical implications and opportunities. THE 3304
- THE 2221 Scenic Techniques (2-3) THE 3313  
A study of standard scenic practices and equipment for the theatre.  
Prerequisite: THE 2271
- THE 2230 Performance Studio (1-3) THE 3315  
This course provides a studio structure offering opportunities for student performance and production as well as development of new works, with emphasis on audience response and discussion. May be repeated for credit.
- THE 2232 Musical Theatre Repertoire (2-3)  
This course offers students opportunities to explore the musical theatre canon through historical context, vocal stylization, and performance techniques.
- THE 2233 Survey of the Broadway Musical (3) THE 3316  
Traces the origins and surveys major works of Broadway musical theatre repertoire.
- THE 2234 Acting the Song (1-3) THE 3321  
Students apply theatre performance techniques through rigorous individual and group study, with emphasis on good performance habits, storytelling, movement, listening and responding, navigation vocal production, song analysis, stage presence, and development of ensemble.
- THE 2245 Stagecraft Lab (1-3)  
Stagecraft Lab provides the basic elements of theatrical production through participation in acting (actors selected through audition), management, and/or technical theatre, including scenery, props, lighting, sound, costumes, makeup, business and publicity.

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3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 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remote piloting environment on mental workload will be considered.

- UAS 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.
- UAS 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.
- UAS 2212 UAS Piloting Familiarization (3)  
This will be a laboratory split between UAS operations instruction and actual UAS piloting. The student will learn basic flight and mission planning techniques, and will be prepared to pass the FAA part 107 "Remote Pilot" certification. Students will participate in quadcopter and fixed wing drone setup, flight safety, mission programming, virtual practice, and "hands on" flight experience (fixed wing drone flight will be simulated using student input).

