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Biennial Catalog Issue, 2006-2008, Volume LXXXIV

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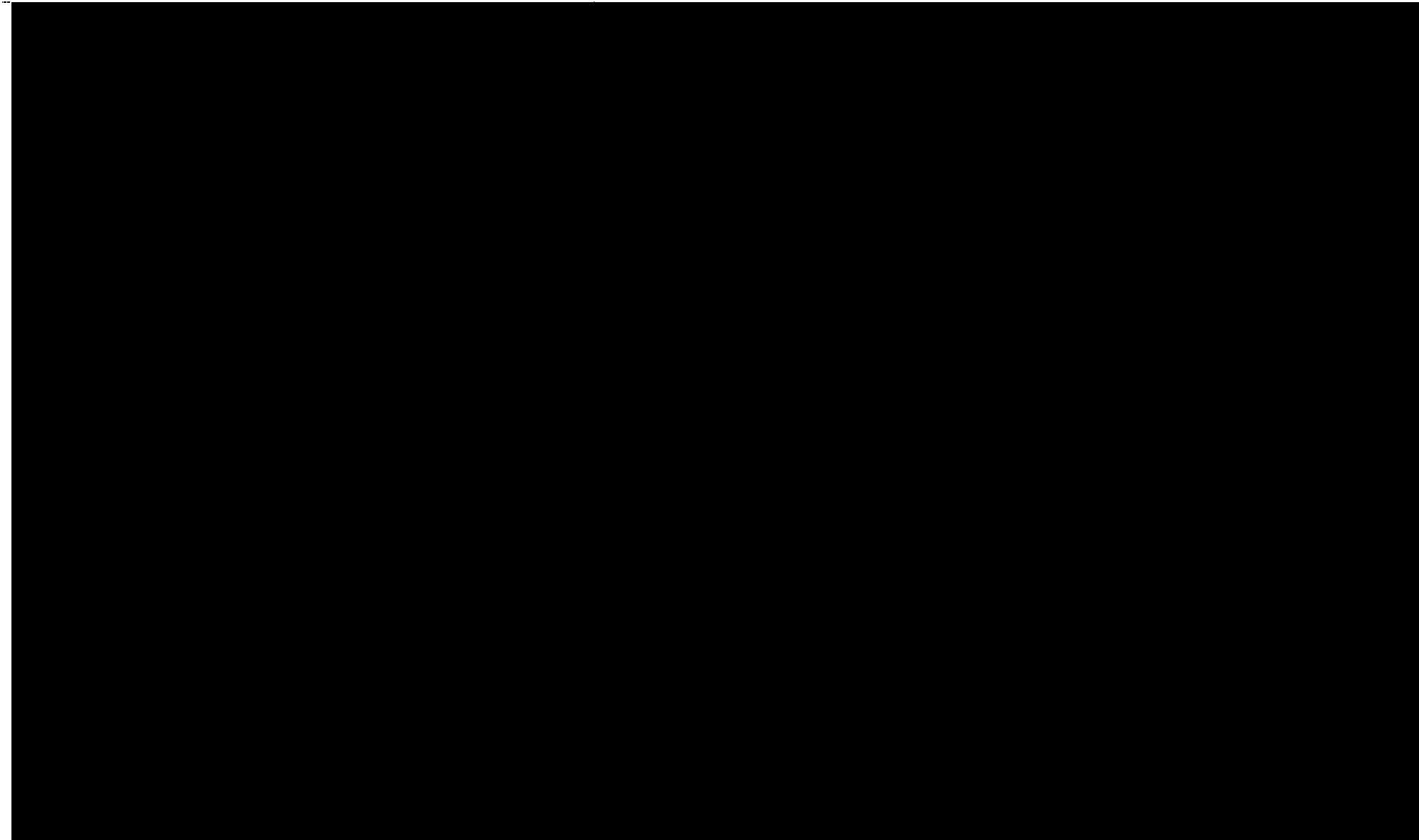
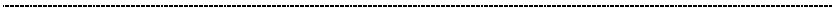
Undergraduate Bulletin
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Undergraduate Bulletin Contents

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9/6/2006 6:48 PMThe University of Central Arkansas participates in an agreement with two-year institutions of higher education in Arkansas to assist students holding an Associate of Arts degree.

Satisfactory completion of an Associate of Arts degree designed for transfer will be accepted as satisfying the general education requirements of UCA. A student who holds an Associate of Arts degree with a 2.0 cumulative grade point average will be accepted for transfer with junior classification subject to the following conditions:

[10.5] Social Sciences

Twelve (12) hours required

Three (3) hours from the following:

- HIST 2301 American Nation I
- HIST 2302 American Nation II
- PSCI 1330 US Government and Politics

Three (3) hours from the following:

- HIST 1310 World History I
- HIST 1320 World History II

Six (6) hours from the following:

- ECON 1310 Modern Political Economy
- ECON 2310 Global Environment of Business
- GEOG 1305 Principles of Geography
- HONC 1320 Honors Core II
- PSCI 1330 US Government and Politics
- PSCI 2300 Introduction to International Relations
- PSYC 1300 General Psychology
- SOC 1300 Principles of Sociology
- SOC 1302 Anthropology

[11] Admission of International Students

All inquiries about international admission should be addressed to International Programs, University of Central Arkansas, 201 Donaghey Avenue, Conway, Arkansas 72035, USA, fax (501) 450-5095, or e-mail oip@mail.uca.edu.

To apply for admission as an undergraduate, international applicants must submit the following:

1. Application for Undergraduate Admission.
2. Non-refundable application fee of US \$40.00 drawn from a US bank, or an international money order.
3. Original or certified copies of all secondary school, college, and university transcripts, with a certified English translation of each.

Freshman Applicants:

Applicants who have completed secondary school and are applying for freshman (first year) admission must meet one of the following criteria:

- a. Secondary school cumulative grade point average of 2.75 or above on a 4.0 scale; or
- b. Rank in upper 40% of secondary school graduating class; or
- c. Composite ACT score of 19 or above; or
- d. Combined SAT score of 930 or above; or
- e. Five passes with credit on O-Level results.

Transfer Applicants

Applicants who have previously attended a college and/or university and are applying for admission



UCA students must obtain written approval from their advisor and the chair of the UCA department offering the course. Extended Study course work will not be counted in lieu of the requirement of one year's work in residence. No more than six credit hours of Extended Study course work is allowed during a senior student's final 30 credit hours.

Extended Study courses taken on an asynchronous basis expire six months from the date of enrollment. A student may extend the course period for an additional six months by paying a renewal fee. Extended Study courses governed by scholarship stipulations or financial aid regulations are offered on a semester basis. For Extended Study courses taken on a semester bases, the enrollment period and the end of the term is the same as for on-campus courses for the Fall, Spring, and 10-Week Semesters. These periods are posted on the university's Academic Calendar.

The Extended Study course is posted on the student's transcript at the time of enrollment. Upon completion of all course requirements, the student's letter grade will be posted on his/her transcript. A student who does not complete the course will receive a no-credit (NC) designation. The grade of NC will not calculate in the grade point average.

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Academic Records

[1] Grades and Quality Points

At the end of each semester or summer term, instructors report the final grades of all students in their classes to the Office of the Registrar. The grade of a student in any course is determined by the quality of work, the regularity of attendance, and the thoroughness of preparation.

Grades are expressed as letters, with equivalents as follows:

forceful arguments. The writing requirement is based on two fundamental assumptions: (1) that writing is a form of inquiry and (2) that writing is rewriting. The first of these assumptions entails encouraging students to take risks in their writing, to see it as a means of adding to their knowledge and their wisdom. The second assumption is based on the conviction that writing is an iterative process involving prewriting, drafting, revising, and editing.

Objectives for students completing the first-year writing requirement are

- to be able to use strategies for invention and arrangement;
- to be able to incorporate the elements of good writing (vividness, development, organization, voice) into their own work;
- to be able to use writing to ask questions--that is, understand that writing is exploratory;
- to be able to use various forms (e.g., narrative, description, dialogue) to help articulate their inquiries and develop the implications of their thoughts;
- to be able to respond critically to their classmates' works-in-progress;
- to be able to use writing to make decisive and forceful arguments;
- to be able to conduct and incorporate library and Internet research into their writing as a means of engaging in academic conversations;
- to be able to use academic documentation with clarity and consistency.

[2.2] Fine Arts

The fine (visual and performing) arts create and interpret works of the imagination by exploring the way humans use images, sound, movement, forms, staging, language, or non-linguistic means to communicate meaning or to produce aesthetic responses. The goal of the fine arts is to express aesthetic or cognitive insights about the human condition.

Objectives for students completing the fine arts requirement are

- to be familiar with some of the classic works of art;
- to better understand the nature and function of different artistic forms;
- to better understand artists' creative processes;
- to understand what distinguishes the form, content, and style of a work of art;
- to be familiar with basic aesthetic concepts and principles;
- to be familiar with the basic criteria used to interpret and judge a work of art.

[2.3] Health Studies

The health studies component of the general education program emphasizes the social, spiritual, physical, emotional, environmental, and intellectual components of health. Courses in the health studies provide students with the knowledge, behaviors, values, and skills necessary to be effective health consumers and to take a more active and enlightened role in controlling their overall health and fitness. The health studies area recognizes that students need to meet current national and local health objectives, emphasizing health promotion, health protection, and preventive services. Health studies is a broad concept and requires an interdisciplinary approach to achieve its full potential.

Objectives for students completing the health studies requirement are

- to be able to identify the priority health risk behaviors of college students including: unintentional and intentional injuries, tobacco use, alcohol and other drug use, sexual behaviors, unhealthy dietary practices, and physical inactivity;
- to exhibit characteristics of a healthy lifestyle by developing skills to decrease morbidity and mortality from these priority health risk behaviors;

- to be able to assess current lifestyle behaviors and understand the impact of these behaviors on the quality and longevity of life;
- to implement strategies to engage in and maintain a healthy lifestyle including: initiation of behaviors consistent with a healthy lifestyle, adaptation of these behaviors to changes occurring throughout life, demonstration of the skills necessary to engage in a lifetime of physical activity, and utilization of available health programs;
- to recognize influences of different cultural traditions, values, and beliefs inherent in health.

[2.4] American History and Government

The American history and government requirement seeks to introduce students to the development of American society and thought. It does so through the study of the American people's historical experience and the study of the development of American political institutions and processes.

Objectives for students completing the American history and government requirement are

- to better understand significant political, social, economic, and cultural developments in the history of the United States;
- to better understand the constitution, government, and political processes of the United States;
- to be familiar with enduring expressions of American thought by studying one or more major American documents;
- to be familiar with the diversity of peoples and cultural traditions that have contributed to the American experience;
- to be familiar with the way Americans have adapted Western and non-Western traditions to develop their own distinctive cultural and political system.

[2.5] Humanities

The general education humanities requirement seeks to enable students to interpret, evaluate, and appreciate works of human culture that can contribute to a better understanding of the human condition. It does so primarily by exploring the ways humans express meaning and values and by examining enduring questions about the nature of the human condition.

Objectives for students completing the humanities requirement are

- to be familiar with some of the classic works of human culture;
- to better understand and appreciate the nature of human expression and its roles in human culture;
- to understand that a work of human culture exists within social, historical, and linguistic settings that affect its meaning;
- to understand that meaning is always mediated by interpretation and that a work of human culture may have multiple interpretations;
 - to be able to employ the skills of critical thinking, reading, writing, speaking, and listening to interpret a work of human culture.

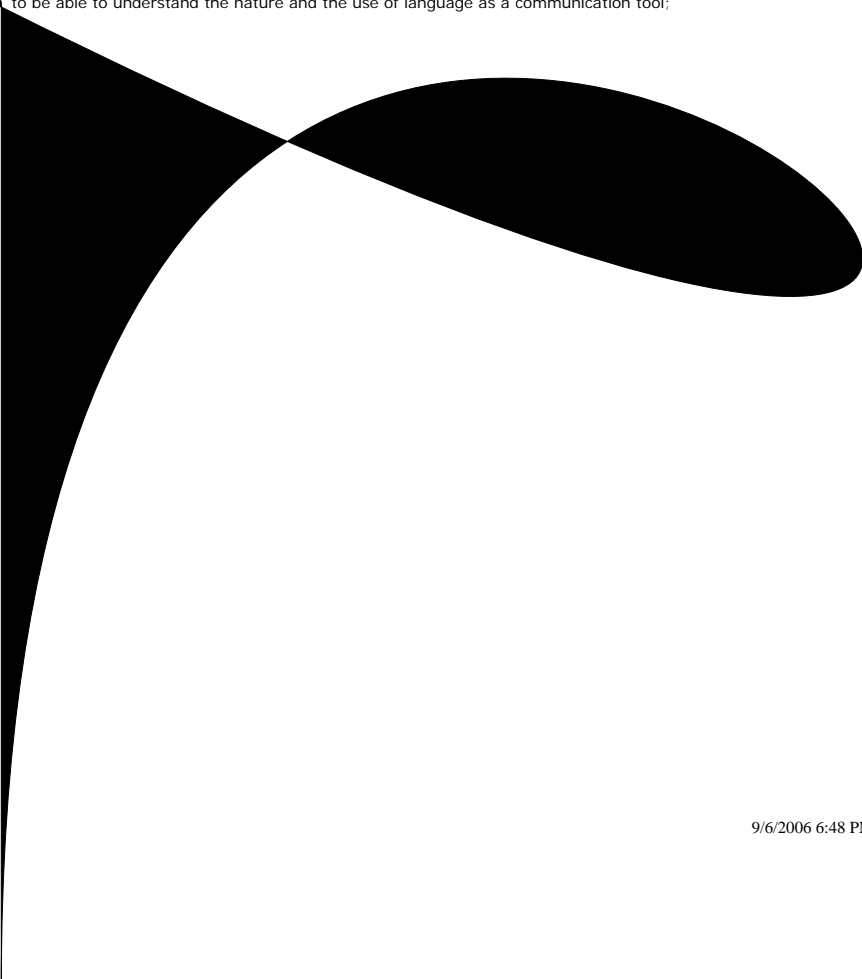
- to be able to translate problems into mathematical form;
- to be able to construct and interpret visual representations of mathematical relationships;
- to construct logical and valid mathematical arguments;
- to determine mathematical relationships and solutions to problems;
- to clearly communicate mathematical relationships and solutions.

[2.7] Oral Communication

The oral communication requirement helps students become effective communicators in a variety of settings. Students learn theories of effective communication and have ample opportunity to practice and improve their communication skills. Specifically, oral communication improves students' conversational, presentational and problem-solving skills. The study of oral communication improves students' ability to evaluate messages and employ critical thinking.

Objectives for students completing the oral communication requirement are

- to be able to communicate effectively in a variety of situations;
- to be able to listen effectively in a variety of situations;
- to be able to understand the influence of perception on communication;
- to be able to understand the nature and the use of language as a communication tool;



The overall objective is to develop students' reasoning abilities by incorporating reasoning tasks and practices into general education courses. Critical thinking objectives for students completing the general education program are:

- Identify and state arguments.
 - Identify the main point in a passage or essay and state the reasons that support a given choice.
 - Identify assumptions and state the implications of an argument, passage, or theory.
 - Critically evaluate arguments in terms of the strength of evidence and reasoning.
- Write an essay that comes to well-reasoned conclusions and solutions, supported by relevant evidence, and tested against relevant criteria and standards.

ENGL 2370 Introduction to Fiction
 ENGL 2380 Introduction to Poetry
 ENGL 2390 Introduction to Drama
 WLAN 2315 Cultural Studies
 FYFS 1301 First Year Seminar: Studies in Humanities
 PHIL 1301 Philosophy for Living
 PHIL 2305 Critical Thinking
 PHIL 2325 Contemporary Moral Problems
 PHIL 2360 Gender, Race, and Class: Philosophical Issues

RELG 1330 Exploring Religion
 HONC 1310 Honors Core I
 HONC 2320 Honors Core III

[5.6] Mathematics

3 hours minimum required. Please note that students with an ACT score of less than 19 are encouraged to enroll in their college-level mathematics course in the semester immediately following the completion of Intermediate Algebra.

MATH 1360 Mathematics in Society
 MATH 1390 College Algebra

or, if required by the student's program of study,

MATH 1392 Plane Trigonometry
 MATH 1395 Business Calculus
 MATH 1396 Calculus for the Life Sciences
 MATH 1580 Algebra and Trigonometry
 MATH 1591 Calculus I

[5.7] Oral Communication

3 hours minimum required.

SPCH 1300 Basic Oral Communication

[5.8] Natural Sciences

8 hours minimum required. Both courses must include laboratories.

4 hours minimum required:

BIOL 1400 General Biology

or, if required by the student's program of study,

BIOL 1440 Principles of Biology I

and 4 hours minimum required:

CHEM 1400 Chemistry in Society
 PHYS 1400 Physical Science for General Education

PHYS 1401 Descriptive Astronomy

or, if required by the student's program of study,

CHEM 1450 College Chemistry I
 CHEM 1451 College Chemistry II
 CHEM 1402 Physiological Chemistry I
 CHEM 2450 Physiological Chemistry II
 PHYS 1405 Applied Physics
 PHYS 1410 College Physics 1
 PHYS 1441 University Physics 1

[5.9] Behavioral and Social Sciences

6 hours minimum required. Courses must be selected from two different disciplines.

ECON 1310 Modern Political Economy or
 ECON 2310 Global Environment of Business
 GEOG 1300 Geography of World Regions or
 GEOG 1305 Principles of Geography
 PSCI 1330 US Government and Politics or
 PSCI 2300 International Relations
 PSYC 1300 General Psychology
 SOC 1300 Principles of Sociology or
 SOC 1302 Anthropology
 HONC 1320 Honors Core II
 HONC 2310 Honors Core III

[5.10] World Cultural Traditions

9 hours minimum required.

3 hours minimum required:

HIST 1310 World History I
 HIST 1320 World History II

3 hours minimum required:

ENGL 2305 World Literature I
 ENGL 2306 World Literature II

3 hours minimum required:

ENGL 2305 World Literature I
 ENGL 2306 World Literature II
 FYFS 1310 First Year Seminar: Studies in World Cultural Traditions
 HIST 1310 World History I
 HIST 1320 World History II
 PHIL 1330 World Philosophies
 RELG 1320 World Religions
 WLAN/WRTG 2350 World Languages
 ENGL 1330 Introduction to African and African-American Studies

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Elective courses may be selected by the student, upon the approval of the advisor, to complete the total credit requirements for graduation. These courses should be chosen carefully either for the purpose of correcting deficiencies in the student's educational background or to strengthen major and minor programs through study in related fields. An elective is defined as a course that does not constitute a part of the major or minor field and is not being used to satisfy a general education requirement. A maximum of four physical education activity hours may count toward graduation.

[2.1.5] Residence

A student may not receive a degree without the completion of the equivalent of nine months of full-time work taken in residence at the university, during which time the student must have completed at least 30 semester hours of residence credit.

The credit offered for a bachelor's degree must include at least 15 hours earned in residence in the major field and nine in the minor field.

Of the last 30 semester hours offered for graduation, at least 24 must be completed in residence at the university. This provision does not reduce the minimum residence requirement stated above.

Not more than one-fourth of the credit offered for graduation may be work done in correspondence study.

These requirements apply also to the candidate who seeks qualification for the associate degree.

[2.1.6] Earning a Second Degree

A second baccalaureate degree may be earned by a student, after the completion of all the requirements for a first degree and the satisfaction of the special requirements of the second degree. An associate degree may be earned by a student who has completed the requirements of a baccalaureate degree or another associate degree. Any second degree requires a minimum of 30 semester hours of residence credit following the awarding of the first degree.

[2.1.7] Two Majors

Two majors may be recorded when all departmental, ancillary, and unique requirements within the same degree are met for both specified majors. If there is a generic relationship, work in the primary major is applicable to the secondary major. However, the number of additional credit hours required for the secondary major must exceed the number required for a minor in that same area.

The student completing a double major shall not be required to present a minor, but may do so if desired.

To upgrade the student program to a more recent bulletin, all requirements of the new bulletin for both majors must be satisfied.

The secondary major may be completed simultaneously or sequentially.

The secondary major may not be awarded after the degree for the primary major has been awarded.

No more than two majors or two minors may be recorded.

[2.1.8] Two Baccalaureate Degrees Earned Simultaneously

Two baccalaureate degrees may be earned simultaneously when all departmental, ancillary, and unique requirements are met for both of the specified degrees.

The student earning two degrees simultaneously may use the general education courses and applicable special degree requirements for both degrees.

Courses used to meet requirements for the majors and minors associated with two degrees earned simultaneously must be unique in all instances.

The student earning two degrees simultaneously will be required to present no more than one minor.

[2.1.9] Assessment

A student is expected to participate in all assessment activities required by the university.

[2.1.10] Commencement

The university holds commencement ceremonies at the end of the spring semester in May, at the end of the summer session in August, and at the end of the fall semester in December. Only students completing all degree requirements are eligible to apply for graduation.

Undergraduate students submit their application for graduation to the Office of the Registrar. All students pay a graduation application fee. The academic calendar lists the deadline dates by which the application for graduation must be made.

If attendance at the commencement ceremony is not possible, the degree will be awarded in absentia.

[2.2] Special Degree Requirements

Baccalaureate requirements of the university provide a measure of standardization in the awarding of degrees. Yet each baccalaureate degree is distinct in its special requirements. Candidates for any degree who expect to complete the teacher education program leading to certification must also satisfy requirements listed under the Bachelor of Science in Education degree.

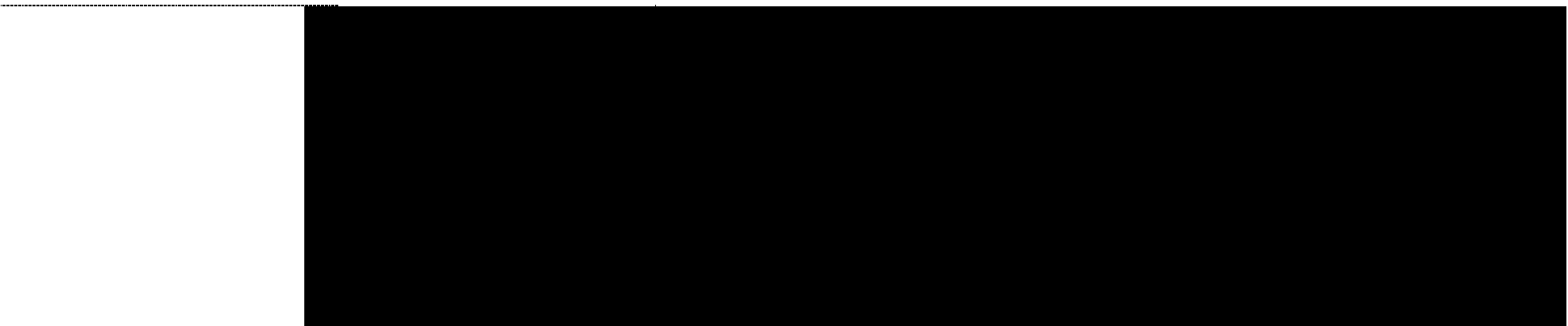
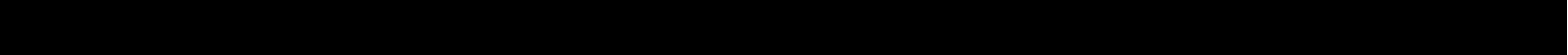
[2.2.1] Bachelor of Arts

In addition to the other requirements for graduation, the Bachelor of Arts degree requires completion of three hours in a foreign language on the 2000-level or above. A student with no previous experience with a foreign language normally will enroll in 1310, 1320, and 2300 or 2310. Guided Study (i.e., correspondence) courses will not be accepted as transfer credit in fulfillment of the foreign language requirement. Note: *Students with prior experience in a language are strongly encouraged to take the departmental placement test before enrolling in their first course.*

Students who have studied a foreign language in which they are not native speakers, and have not previously received undergraduate credit in that language at a college or university, may receive credit by examination. Such credit is limited to a maximum of six hours in one language or twelve hours within the department and is granted by fulfilling the following criteria:

- Achievement of a satisfactory score on a placement examination administered by the Department of World Languages, Literatures, and Cultures.
- Satisfactory completion, with a minimum grade of B, of the next foreign language course above the level for which credit by examination is to be awarded.

In cases of unusually thorough preparation, or in the case of international students, exemption may be sought from the Department of World Languages, Literatures, and Cultures.



- Training Systems

Master of Science in Nursing (MSN)

Master of Music (MM)

Concentration Areas:

- Choral Conducting
- Instrumental Conducting
- Music Education
- Performance - Instrumental, Keyboard, Voice
- Theory

Graduate Certificate (GC)

- Business Management
- Diverse Literatures
- Geographic Information Systems

[2] Concurrent Undergraduate/Graduate Enrollment

If a senior is in the last term of enrollment before receiving a baccalaureate degree and is otherwise fully qualified to enter graduate study, that student may be admitted to concurrent status. An Application for Admission to the Graduate School and an Application for Concurrent Status must be submitted with the Graduate School at least six weeks prior to registration. The student's entire program is subject to the regulations and requirements for graduate study. Graduate credit will be received only if the student completes the requirements of the bachelor's degree during the term in which the graduate courses are taken.

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Fees and Financial Aid

[1] General Information

The university is supported chiefly by state appropriations and student fees. The goal of the university is to offer the best possible educational opportunities and services at the lowest possible costs. One of the ways the university accomplishes this is by requiring that a significant down payment be made on general registration and other mandatory fees and the first installment of room and board must be paid at the beginning of the semester with the subsequent three installments scheduled in approximately 30-day intervals. It is the responsibility of a registered student to comply with the University's withdrawal policy if they do not plan to attend. Collection fees for outstanding debts owed to the university may be assessed to the student. The university reserves the right to amend or add to the regulations of the institution, including those concerning fees and methods of payment, and to make such changes applicable to students enrolled in the university, as well as to new students.

[2] General Registration and Other Mandatory Fees (Undergraduate)

General registration and other mandatory fees are based on the number of hours in which a student is enrolled. Current fee schedules can be obtained in the Student Accounts Office, McCastlain Hall, Room 144.

[3] Withdrawals and Refunds

Please note that financial aid regulations govern those students who receive Title IV funds. For more information, please contact the Financial Aid Office, McCastlain Hall, Suite 001.

[3.1] Withdrawals/Class Adjustments: Fall and Spring Semesters

From the first regular class day of the semester until the sixth regular class day, students who officially withdraw from the university or make schedule adjustments for the fall and spring semesters will receive a 100% reduction in their charges for registration and mandatory fees, if applicable. A withdrawal fee must be paid prior to termination of a complete class schedule during any semester from the first regular class day of each semester. Non-payment of this fee will result in the loss of any potential reduction in the charges during the 100% or the 75% reduction periods.

Students who officially withdraw from the university or make schedule adjustments after officially withdrawing from the university will receive a 75% reduction in their charges for registration and mandatory fees, if applicable. A withdrawal fee must be paid prior to termination of a complete class schedule during any semester from the first regular class day of each semester. Non-payment of this fee will result in the loss of any potential reduction in the charges during the 100% or the 75% reduction periods.

Housing costs are quoted in terms of room and board. Housing costs and prices of various meal plans may be obtained from the Housing Office.

[4.13] Honors College Participation Fee

See the Honors College office.

[4.14] College of Natural Sciences and Mathematics Laboratory Fee

See natural sciences departments.

[5] Financial Aid

Financial aid, simply defined, is money that helps students pay for their educational costs. Aid may be in the form of loans, grants, scholarships, employment opportunities, or a combination of all of these.

The Student Financial Aid Office is primarily responsible for the processing of federal Title IV aid and coordinating federal aid with other funds, such as scholarships. Title IV aid includes Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Federal College Work Study, Federal Perkins Loans and the Federal Stafford Loans. Other scholarships and grants are awarded by various departments and agencies on and off campus. The Student Financial Aid Office is a good resource for questions concerning these other types of aid.

Most federal programs require the student to complete the Free Application for Federal Student Aid (FAFSA). The FAFSA gathers information that is used to determine the relative financial strength of the student's family or the need for assistance. Please note that eligibility criteria for each of the programs varies. Students may be able to establish need for all programs, whereas others may be able to establish eligibility for one program but not all programs. The following is a general summary of the programs available at UCA and is intended to give you an overview of these programs.

Application forms may be obtained from the Student Financial Aid Office located in McCastlain Hall, Suite 001. Student Financial Aid Office personnel are available to answer questions and to assist students with the application process.

[5.1] Grantsne er th of the

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Student Resources and Services

succeeding at UCA. In addition, the office offers multicultural training and workshops for students, faculty and staff. For more information, call 450-3135.

[1.13] Student Center

The Student Center is the community center of the university serving students, faculty, staff, alumni, and guests. It offers a variety of programs, activities, services, and facilities. In the basement are offices for Minority Students Services, Disability Support Services, and the studios for KCON and KUCA radio stations. On the first floor is a food court, Post Office, University Bookstore, Campus Information Center, lounges, convenience store and the Java Joint featuring specialized coffee, drinks and desserts. On the second floor of the Student Center are meeting rooms, a ballroom, lounge space, and offices for the ECHO (school newspaper), SCROLL (school yearbook), Student Government Association, Greek Services, Student Organizations, Student Activities Board, Orientation, and Student Center Administration.

The Student Center also offers full service meeting and conference facilities for student organizations, university departments and conferences for the Central Arkansas area. The meeting rooms accommodate from ten to five hundred people, with portable staging, a variety of sound systems, and other services. For more information call 450-3235.

[1.14] Student Health Clinic

The Student Health Clinic is located in the basement of Bernard Building and is open from 8:00 a.m. to 4:15 p.m. Monday through Friday. Services available include: measles, mumps, rubella, tetanus/diphtheria, hepatitis-B and meningitis immunizations, examination and treatment of minor illness or injury, TB skin tests, blood pressure checks, tests for pregnancy, blood sugar, cholesterol, strep test, urinalysis, CBC, mononucleosis test, pulse oximetry, and peak flow measurements as ordered by the nurse practitioner. EKG, laceration repair, removal of simple lesions, IV re-hydration, IM injections of a limited formulary and prescriptions on Schedule III, IV, and V are provided upon the order of an Advanced Practice Nurse (Nurse Practitioner). Women's health care, including pap smears by appointment, and pelvic exams as needed are available. Physical exams are available by appointment only. Health education and counseling, loan of crutches, student health insurance forms, and assistance in obtaining appointments with health care providers outside the University are also available.

The Student Health Clinic does not routinely provide emergency care outside the office. Emergency care is obtained by calling 911 or at the Conway Regional Medical Center Emergency Room. Students are responsible for all charges, prescriptions, and tests outside the Student Health Clinic.

The Student Health Clinic does not provide excuses for missed classes. Should a student be unable to attend classes for three (3) days or more, the Student Health Clinic will notify the student's instructors of the expected absence (but not the specific reason) and possible return date. The instructor may then decide what work, if any, may be performed at a later time. Extended absences may be reported by calling the Student Health Clinic (501-450-3136). Students who are confined to their residence hall room or require a temporary special diet due to illness are referred to the Student Health Clinic.

charged in the Student Health Clinic.

unite the fraternity community and enhance the social and educational experiences of members. IFC groups recognized at UCA include Pi Kappa Alpha, Phi Sigma Kappa, Sigma Nu, Sigma Phi Epsilon, Sigma Tau Gamma, and Kappa Sigma.

National Pan-Hellenic Council (NPHC). The NPHC is a governing body composed of representatives from the historically African-American Greek organizations on campus. NPHC meets bi-weekly to discuss issues of mutual concern. NPHC also coordinates an annual calendar for the social events and theme weeks of the eight NPHC fraternities and sororities. NPHC fraternities recognized at UCA include Alpha Phi Alpha, Kappa Alpha Psi, Omega Psi Phi, Iota Phi Theta, and Phi Beta Sigma. NPHC sororities recognized at UCA include Alpha Kappa Alpha, Delta Sigma Theta, Sigma Gamma Rho and Zeta Phi Beta.

[1.16.4] Life on Campus

Many activities and leadership opportunities are offered through on-campus life for students living in the residence halls/apartments. Each area has a council whose primary responsibilities include budgeting activity funds, purchasing equipment, improving facilities, forming intramural athletic teams, and planning social, educational, and cultural events. The Residence Student Association is the coordinating body for all the communities. It is composed of voting representatives from each area council. The Residence Life Judicial Board is comprised of students from the residence halls/apartments. Its function is to hear disciplinary cases of students who violate policies. For more information call 450-3132.

[1.16.5] Student Publications

The university offers several publications in which students can become involved. The *Scroll* is the university's yearbook. It attempts to tell the story of the school year through careful selection of eye-catching pictures and balanced written accounts. The idea is to produce a book that will be of immediate interest to readers, yet have lasting value as a historical document by accurately recording growth and change in the university. Working on the *Scroll* is open to all students. Students may volunteer or earn one credit hour in Print Media Applications through the Mass Communication program. The *Scroll* is supported by student fees and is issued at the end of the spring term. It is free to students. The office is located in the Student Center, second floor. For more information call 450-5599.

The *Echo* is a student-run, independent newspaper for the campus community. The newspaper is supported by student fees although most of its costs are borne by advertising revenues. It presents a weekly picture of university life and issues, through news, editorials, columns, photos and feature stories. The staff members are students from all areas of campus, and most have an interest in journalism. The *Echo* office is located in the Student Center, second floor. For more information call 450-3446.

Vortex is a literary and art magazine published at UCA. The Editorial Board is composed entirely of students. Department of Writing and Speech faculty serve as advisors only. Vortex contains student work in short fiction, poetry, essays, drama, screenplays, art, and photography. One volume a year is published during the spring term. For more information call 450-3344.

[1.16.6] Department Organizations

Students can organize and join organizations related to their academic major. Department organizations available at UCA include:

Association of Psychology Counseling Grads
American Association Family & Consumer Science
Beta Alpha Psi
Honors Center Society

Design This
Le Cercle Francais
Minority Mentorship Program
National Student Speech, Language, Hearing Association
North American Saxophone Alliance
Phi Mu Alpha Sinfonia
Psi Chi/Psychology Club
Public Relations Club
Pre-Physical Therapy Club
Rough Draft, The UCA Creative Writing Club
Sigma Alpha Iota
Society of Physics Students
Spanish Club
Student Chapter National Art Education Association
Student Council for Exceptional Children
Student Dietetic Association (SDA)
Student Nurses Association
Student Occupational Therapy Club
Student Physical Therapy Club
UCA Biology Club
UCA Investment Club
UCA Marketing Club
UCA Student Chapter North American Saxophone Alliance
UCA Math Club

[1.16.7] Honorary Organizations

UCA offers many honorary organizations that recognize students for their academic, leadership, and/or service achievements. Honor organizations at UCA include:

Alpha Sigma Lambda
Alpha Kappa Psi
Gamma Beta Phi
Kappa Delta Pi
Kappa Kappa Psi
Lambda Pi Eta
Order of Omega
Tau Beta Sigma
Sigma Theta Tau

[1.16.8] Activity/Service Organizations

UCA offers organizations that focus on a program, activity, and/or service. Organizations available at UCA include:

American Society of Interior Design
Alpha Phi Omega
The Bear Den
Big Brothers Big Sisters/UCA
Black Graduate Association
Black Men United
Circle K International

Griot Society

UCA Habitat for Humanity

Humane Society of SRC/UCA

Leadership Council

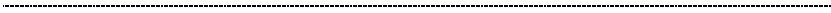
Medieval Battle Re-enactment Organization

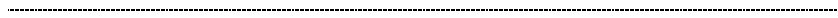
Phi Beta Lambda

Prism Alliance of UCA

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Sexual harassment is an abusive, demeaning, offensive or intimidating environment. It may be manifested by verbal and/or physical actions, including gestures and other symbolic conduct. Sexual harassment is not always obvious and overt; it can also be subtle and covert. A person who consents to sexual advances may nevertheless be a victim of sexual harassment if those sexual advances were unwelcome. Previously welcomed advances may become unwelcome. Examples of sexual harassment may include sexual advances and the following: repeated unwanted touching, patting, or pinching; repeated inappropriate social invitations or requests to employees or students of one gender; repeated unwanted touching, patting, or pinching; repeated





- 1. Obtain a 2.0 or higher cumulative grade point average, and
- 2. Complete at least 24 hours of the business foundation courses, which must include ACCT 2310, 2311, ECON 2320, 2321, QMTH 2330, and
- 3. Obtain a 2.0 or higher cumulative grade point average in the business foundation courses completed.

To remain eligible to enroll in the business core or major courses a BBA major must:

- 1. Maintain a 2.0 or higher cumulative grade point average in the business foundation courses, and
- 2. Maintain a 2.0 or higher cumulative grade point average in the business core courses, and
- 3. Maintain a 2.0 or higher cumulative grade point average in his or her major.

Any BBA major who fails to meet the requirements listed above after being admitted to the upper division business core and major courses for any semester will be placed on CBA probation for the following semester. If the student does not satisfy all of the grade point requirements listed above by the conclusion of the CBA probation semester, he/she will be dropped from the College of Business Administration core and upper division major courses for which they may have pre-registered for the next semester. Thereafter a student can enroll in non-business upper division courses in order to raise his/her GPA to meet admission requirements for the College of Business.

Business Education majors, business minors, and others who wish to enroll in courses in the College of Business Administration are not bound by the grade point requirements above but must complete the prerequisite courses stated in the bulletin. Non-BBA majors may not take more than 30 hours in the College of Business Administration.

[5.2.4] Requirements for the Bachelor of Business Administration

The Bachelor of Business Administration (BBA) degree emphasizes professional development based on a

requirement that students complete at least 18 hours of business foundation courses, including ACCT 2310, 2311, ECON 2320, 2321, QMTH 2330, and

and maintain a 2.0 or higher cumulative grade point average in the business foundation courses completed.



and financial problems as they arise in their personal and professional lives.

Exceptional students may be invited by the faculty to pursue recognition as a departmental undergraduate scholar. Students will write a paper under the direction of a faculty member. Successful completion of this program will allow the students to graduate as a departmental undergraduate scholar. Finance and insurance majors will be required to complete FINA 4395 Special Problems in Finance; economics majors will complete ECON 4395 Special Problems in Economics.

[2] The Carmichael Endowment

The generosity of Dr. Maude Carmichael, through the Carmichael Fund that she established to honor her parents, has made it possible to have unique experiences in economic education. The creation of the Carmichael Professorship is one example of how her endowment has been used to promote education in economics and banking.

Dr. Carmichael (Ph.D., Radcliffe) 491mics. **[2] The Carmichael Enobl.8647Tj/TT6 1 Tf0 -5.6691 5.6691 0 439.3376 743.5959 T3] Baccalauent et5rgreesculty mpro36 pro36 Eno37.020**

and core which supports a primary function of the major. The focus of the minor then shifts to developing computer programming and technical competence.

Students must apply to minor in management information systems. Students must hold a minimum overall GPA of 2.25 at the time of applying for a minor in MIS and earn a C or better in all MIS courses in the minor program of study.

Requirements: MIS 1370 or CSCI 1470; MIS 2343, 3301; MIS 3328 or CSCI 4490; MIS 3362, and MIS 3365 or 4329; and 3 hours from the following: MIS 3363, 4301, 4339, 4362, CSCI 1480.

[4] Courses in Management Information Systems (MIS)

Follow this link for MIS course descriptions: [course link](#).

[5] Courses in Quantitative Methods (QMTM)

Follow this link for QMTM course descriptions: [course link](#).

Candidate Services and Field Experience coordinates teacher education admissions, early field experiences, internships, and licensure. The Technology Learning Center serves faculty, candidates, and the community with technology labs and with a media resource center for the design and development of instructional materials.

[2] The Professional Education Unit (PEU)

The Professional Education Unit (PEU) is the umbrella organization under which teaching faculty, academic administrators, and practicing professionals come together to collaborate on the design, delivery, approval, and accreditation of all education programs. The faculty number nearly 80, and the administrators represent over thirteen different instructional departments in five colleges. The Dean of the College of Education leads the PEU and provides university-wide coordination for all education programs, working in partnership with the other deans of the university.

Within the Professional Education Unit, the following functions are centralized in the College of Education in support of all teacher education programs at UCA:

- Formal admission to Teacher Education - Office of Candidate Services and Field Experience
- Admission to Internship - Office of Candidate Services and Field Experience
- Recommendations for Licensure - Office of Candidate Services and Field Experience
- Technology and Educational Resources - Technology Learning Center
- Coordination for Program Accreditation - Dean of the College of Education

The state of Arkansas requires all applicants for a teacher's license to be finger-printed and to undergo a successful background check. Questions about this procedure and/or its impact upon a candidate's personal situation should be directed to the Director of Admissions and Licensure. If evidence becomes known that would render the candidate ineligible to receive a teaching\ license in the state of Arkansas, then this information may become grounds to refuse admission to or retention in the teacher education program.

[3.1] Admission and Exit Requirements

Admission to teacher education is required for all candidates expecting to complete a teacher education program leading to initial licensure in any teaching field. Level I admission is required for enrollment in designated upper division professional education courses.

[3.1.1] Level I Admission

The following minimum requirements must be met for admission to the teacher education program:

1. Establishment of an account on the College of Education Candidate Account Manager (CAM) database. Accounts may be opened in the Technology Learning Center, Mashburn 102 or by going to the College of Education webpage (www.uca.edu/divisions/academic/coe/)
2. Submission of an Admissions Affidavit stating that the candidate has never been convicted of any crime that would prevent the issuance of a teaching license (Act 1313 of 1997 and Act 752 of 2001). Both forms may be obtained from The Office of Candidate Services and Field Experience or on the candidate's CAM account.
3. A cumulative 2.5 GPA on all coursework attempted. Prior to full admission, transfer students with no previous coursework at UCA must also establish a 2.5 GPA in a minimum of twelve semester hours at UCA.
4. Completion of courses in written communications (WRTG 1310 and 1320), oral communications (SPCH 1300), and mathematics (MATH 1360 or above) with no grade less than a C. Some majors require College Algebra (MATH 1390) for admission. Completion of pre-admission education courses EDUC 1300 Education as a Profession (all majors), EDUC 1220 Education Technology or successful completion of the Technology Competency Exam (all majors), and ECSE 3300 Foundations of Early Childhood Education (P-4 majors only). All professional education courses must be completed with no grade less than a C.
5. Completion of the Praxis I Pre-Professional Skills Test (PPST) according to current state-established minimum scores: PPST Reading 172; PPST Math 171; PPST Writing 174 (UCA minimum writing score is 174 while the state minimum is 173). Candidates are advised to take the Praxis I during the freshman year. Admission to the program will be delayed until minimum scores on each section are achieved.
6. Successful completion of forty-five semester hours (or in process).
7. Submission of two recommendations for admission from UCA faculty (one recommendation must be completed by the instructor of EDUC 1300 or ECSE 3300).
8. Candidate interview by the major area faculty with recommendation for admission. Candidates will register for the interview in The Office of Candidate Services and Field Experience. An admission status checklist will be forwarded to the candidate's major academic department prior to the interview dates established by the department. Interview registration deadlines are listed below.

The Office of Candidate Services and Field Experience will observe the following deadlines for the application process. Candidates are encouraged to submit all requirements for admission prior to the established deadlines.

October 1	Final date for interview registration for candidates seeking admission for the following spring semester.
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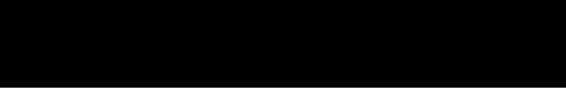
November 1	Final date for completion of admission requirements for candidates seeking full admission the following spring semester.
March 1	Final date interview registration or candidates seeking admission for the following summer or fall semester.
April 1	Final date for completion of admission requirements for candidates seeking full admission the following summer or fall semester.
*July 1	Final date for interview registration for candidates seeking admission for the following fall semester.
*August 1	Final date for completion of admission requirements for candidates seeking full admission the following fall semester.

*Summer interviews are offered at the discretion of the academic department.

[3.1.2] Level II Admission

Level II of the teacher education program consists of a one-semester full-time placement (Internship II) in an accredited and approved public school setting. During this time the candidate will be placed with a mentor teacher who is fully licensed in the candidate's major area of study. Candidates will be admitted into Level II of the teacher education program upon successful completion of the following:

- Minimum cumulative and major GPA of 2.5
- Acceptable scores on the summative evaluation of the Level I performance standards based upon the



preparing for careers for grades 4-12 and post-secondary teachers. Requirements include completion of (1) the general education component (see General Education Program in this bulletin), (2) the business education core, and (3) professional education degree requirements.

Business Education core: ACCT 2310, 2311, 2321, BMTE 2320, 2364; ECON 1310; FINA 2330; MGMT 2301, MIS 2343, 3321, 3364; MGMT 2341.

Professional education degree requirements: EDUC 1300, 1220, 3309, 3321; MSIT 3310, 4305, 4325; BMTE 4359, 4371, 4340, 4680, 4681.

Several professional education and content courses must be taken together. Consult with the program coordinator for details. See UCA's Undergraduate Studies web site for a [program completion plan](#).

[2.2.2] Middle-Level Education, Grades 4-8

The undergraduate program in middle level education is designed to prepare teachers to work effectively in middle-level grades. Program goals include (a) delivering a program that models middle-school philosophy through the use of flexible scheduling, teaming, and interdisciplinary teaching; (b) preparing middle-grades teachers who can design and deliver developmentally responsive curriculum based on theory, research, and reflective decision making; (c) providing experiences that enhance candidates' ability to "think like a teacher" (e.g., case discussions, problem-based learning, field experiences, reflective journals); (d) providing candidates extensive field-based experiences in school and community sites; and (e) preparing middle-level educators who are competent, caring, and qualified.

Candidates interested in pursuing a major in middle-level education must choose one of the following tracks: language arts/social studies or mathematics/natural sciences. Candidates who successfully complete one of these tracks and meet requirements established by the state of Arkansas will be eligible to seek an initial teacher's license through the Arkansas Department of Education.

Delivery of courses (both tracks): With the exception of EDUC 1300, 1220, and 3309, MSIT 3310, 3320, and 4325, all professional education requirements must be completed after admission to the teacher education program. Also, several of the content courses in the language arts/social studies track and mathematics/natural sciences track must be taken after admission to the teacher education program. Several professional education and content courses are scheduled to form blocks, and these courses must be taken together. Consult with the program coordinator for details.

Mathematics/Natural Sciences Track

General Education: Requires completion of the general education component. The following courses should be selected from those categories that provide options because these courses fulfill both general education

approved studio emphasis (see below), and 21 hours in BFA required courses (see below) to complete 80 hours. Acceptance to the BFA degree program requires faculty approval of the BFA application which includes the application form, a typewritten statement, slides or digital images of at least 12 works, and a copy of a current UCA transcript. Students with a 2.5 cumulative GPA and a 3.25 major GPA on a minimum of 24 hours of art may apply for entrance to the program after successfully completing the Sophomore Major Advancement Interview. Applications are accepted each fall and spring semester. A minimum of 23 hours in art is required after acceptance to degree candidacy, including ART 4600, 4675, 4150, 4160, 4372, and 6 hours of art in a specified degree plan.

(Note: If one or more of the courses below have been taken as part of the Area Studies coursework under Category A or B, select additional courses from the studio emphasis electives section.)

ART 3343 Printmaking I
ART 3344 Printmaking II
ART 4388 Advanced Studio: Printmaking
ART 4388 Advanced Studio: Printmaking
ART 4371 Directed Studio Problem

Select one of the following:

ART 3330 Illustration I
ART 3332 Painting I
ART 3315 Contemporary Media in 3-D

Select one of the following:

ART 3331 Illustration II
ART 3333 Painting II
ART 3362 Sculpture II or Art 3390 Ceramics II

[3.2.6] Sculpture Emphasis (21 hours)

(Note: If one or more of the courses below have been taken as part of the Area Studies coursework under Category A, select additional courses from the studio emphasis electives section.)

ART 3361 Sculpture I
ART 3362 Sculpture II
ART 4388 Advanced Studio: Sculpture
ART 4388 Advanced Studio: Sculpture
ART 3379 Ceramics I
ART 3390 Ceramics II

Select one of the following electives:

Art 4371 Directed Studio Problem
Art 3315 Contemporary Media in 3-D

[3.3] Bachelor of Arts

described below, and (5) a minor as arranged through the student's minor advisor.

[4.1.1] Major in Digital Filmmaking (42 hours)

Core courses (6 hours):

MCOM 1300 Media and Society
MCOM 1362 Mass Communication Practices and Processes

Required digital filmmaking courses (21 hours):

FILM 2310 Script Analysis
FILM 2366 Digital Filmmaking 1
FILM 3315 Classical Film Theory
FILM 3350 Cinema History 1
FILM 3351 Cinema History 2
FILM 3356 Digital Filmmaking 2
FILM 4356 Digital Filmmaking 3

Electives (15 hours, chosen from the following):

MCOM 3307 Media Theory and Research
FILM 3316 Film Theory Since 1960
MCOM 3363 Audio Production
MCOM 3373 Documentary Production
MCOM 4313 Writing for Electronic Media
MCOM 4315 Advanced Television Production
MCOM 4323 Seminar in Mass Communication
FILM 4392 Topics in Digital Production (Cinematography, Directing, Editing, etc.)
WRWG 3300 Creative Writing: Scriptwriting
WRWG 3320 Forms of Scriptwriting
MCOM 3321 Internship (120 hrs.)

[4.2] Bachelor of Arts/Bachelor of Science in Mass Communication

The degree of Bachelor of Arts or Bachelor of Science with a major in mass communication requires the successful completion of 124 hours, including (1) the general education component, (2) specific degree requirements, (3) the core journalism courses, (4) required, elective, and application courses for one of the mass communication emphasis areas as described below, (5) MCOM 3321 (internship), and (6) a minor as arranged through the student's minor advisor.

[4.2.1] Broadcast Journalism Emphasis (43 hours)

Journalism core (15 hours):

MCOM 1300 Media and Society
MCOM 1362 Mass Communication Practices and Processes
MCOM 2300 Beginning Reporting
MCOM 3301 Media Law and Ethics
MCOM 3308 News Editing

Required broadcast journalism courses (12 hours):

MCOM 2340 Broadcast Journalism Production I (new course; see description below)
MCOM 3374 Broadcast Journalism Production II

- MCOM 3305 Publication Design & Makeup
- MCOM 3307 Media Theory and Research
- MCOM 3322 Directed Study in Communication
- MCOM 3391/4391 Topics in Mass Communication
- MCOM 4313 Writing for Electronic Media
- MCOM 4323 Seminar in Mass Communication
- MCOM 4331 In-Depth and Computer-Aided Reporting

Application courses (4 hours):

All students complete 1 hour credit at each level and then choose one more at any level. Each level may be repeated for a maximum 2 hours credit.

- MCOM 2123 Electronic Media Applications
- MCOM 3123 Electronic Media Applications
- MCOM 4123 Electronic Media Applications

Internship (3 hours):

- MCOM 3321 Internship (120 hours)

[4.2.3] Print Journalism Emphasis (43 hours)

Journalism core (15 hours):

- MCOM 1300 Media and Society
- MCOM 1362 Mass Communication Practices and Processes
- MCOM 2300 Beginning Reporting
- MCOM 3301 Media Law and Ethics
- MCOM 3308 News Editing

Required print journalism courses (12 hours):

- MCOM 2305 Basic Press Photography
- MCOM 3300 Advanced Reporting
- MCOM 3305 Publication Design & Makeup
- MCOM 3334 Non-Fiction Writing

Electives (9 hours, chosen from the following):

- MCOM 3302 Media History
- MCOM 3307 Media Theory and Research
- MCOM 3322 Directed Study in Communication
- MCOM 3391/4391 Topics in Mass Communication
- MCOM 4323 Seminar in Mass Communication
- MCOM 4331 In-Depth / Computer-Aided Reporting
- MCOM 4332 Writing Editorials and Reviews
- MCOM 4313 Writing for Electronic Media
- PRLS 3310 Writing for Public Relations
- WRTG 3310 Technical Writing

Application courses (4 hours):

All students complete 1 hour credit at each level. Each level may be repeated for a maximum 2 hours

[3.1.1] Major in Music Education

Applied Music (12-14 hours): Major applied: 10 hours (instrumental) or 12 hours (vocal); recital or project: 1 hour; minor applied: 2 hours.

Theory (18 hours): MUS 1230, 1231, 1232, 1233, 2430, 2431, 3210 or 3230 or 4210 or 4215.

History and Literature (9 hours): MUS 1340, 3302, 3303.

Pedagogy (9-11 hours): Vocal majors: MUS 1141, 1142, 3201, 3305, 3306, 4160. Keyboard majors: MUS 2150, 3201, 3305, 3306, 4202. Instrumental majors: MUS 2150, 2170/2171, 2180/2181, 2199, 3201, 3305, 3304 or 3308. (Instrumental majors must have 1 hour of string class, 1-2 hours of brass class, and 1-2 hours of woodwind class. Brass majors will take 2 hours of woodwinds. Woodwind majors must have 2 hours of brasses. Percussion majors will take 2 hours of woodwinds and 2 hours of brasses.)

Technology (2 hours): MUS 2210.

Internships (13 hours): MUS 4140, MUS 4690, MUS 4691

[3.2] Bachelor of Music in Performance

The degree of Bachelor of Music with a major in performance requires successful completion of 130 hours, including (1) the general education component, (2) degree requirements as listed below, and (3) ensemble experience as required.

[3.2.1] Major in Performance (130 hours)

Applied Music (26 hours): Major applied: 23 hours; minor applied: 2 hours; recital: 1 hour.

Theory (24 hours): MUS 1230, 1231, 1232, 1233, 2430, 2431, 3210, 3230, 3233, 4210 or 4215.

History and Literature (11 hours): MUS 1340, 3302, 3303; keyboard majors: MUS 4203; vocal majors: MUS 4205.

Pedagogy (2-4 hours): MUS 3201; instrumental majors: MUS 4204; keyboard majors: MUS 4202; vocal majors: MUS 4160. Vocal majors must take MUS 1141 and 1142. Note: Vocal majors under the BM Performance program must have one year of a foreign language, either French or German.

Electives: Vocal emphasis: 4 hours; instrumental emphasis: 12 hours; keyboard emphasis: 11 hours. (Electives may be music courses or courses from other disciplines. Students should consider the university graduation requirement of 40 hours of upper-division credit for graduation when choosing electives.)

[3.3] Bachelor of Arts in Music

The degree of Bachelor of Arts in Music requires the completion of 130 hours, including (1) the general education component, (2) degree requirements as listed below, (3) a minor in another field of up to 24 units, (4) a foreign language requirement, and (5) ensemble experience as required. A minor is not required.





the development, advancement, and dissemination of knowledge. The College offers exceptional undergraduate and graduate programs in an environment that values diversity, ethical practice, lifelong learning, and interdisciplinary collaboration.

[2.2] Bachelor of Science in Health Sciences

Degree requirements include successful completion of a minimum of 124 hours, including (1) the general education component, (2) degree requirements, (3) the health sciences core, and (3) one of the emphases in health sciences. Because of the number of hours included in the health science major, no minor is required.

Health Science Core (15 hours): BIOL 2405 or 2406 or 2407, CHEM 1450 or 1402, PHYS 1405, and Statistics (SOC 2321 or PSYC 2330 or MATH 2311).

[2.2.1] Gerontology Emphasis

Degree Requirements (30 hours): H ED 2310, 4310, 4390, 4600; PSYC 3360, 4352; SOC 3381, 4331, 4334.

Related Requirements (23 hours): MIS 2343 (formerly INFO 2343); CHEM 1402; BIOL 4351; H SC 3123; H ED 3320, 4331, 4343, 4370.

Electives (15 hours): PHIL 1320, 4350; SOC 3361, 4322, 4351; ACCT 4325; H ED 2320, 3305, 4301, 4312.



[Redacted content]

[Redacted content]

[1.2.2] Program Exit Requirements

1. Teacher candidates must complete the following requirements and submit the following documentation to Chair of the Kinesiology and Physical Education within the designated deadlines established by the university, college and/or department. For a list of critical dates established by the university see the [academic calendar](#).
2. Application for graduation by the university established deadline.
3. Passing score on the showcase portfolio. Deadlines for submission and completion are listed [below](#).
4. Program exit survey. Deadlines for completion are listed [below](#).
5. Exit interview with the chair of the Kinesiology and Physical Education Department. Deadlines for completion are listed [below](#).
6. Praxis II Tests: Health and Physical Education Content Knowledge (test # 0856) with a minimum score of 144 and Physical Education: Movement Forms - Analysis and Design (test # 0092) with a minimum score of 150. Deadlines for submission are listed [below](#).

[1.2.3] Deadlines to Complete Departmental Requirements for the BSE

November 1	Final date for submission of developmental portfolio for teacher candidates seeking admission to the PETE program during the following spring; and final date for submission of the showcase portfolio for students seeking to graduate in December.
December 2	Final date for successful completion of the fitness test and the developmental portfolio for teacher candidates seeking admission to PETE during the following spring; and final date for successful completion of the showcase portfolio for teacher candidates seeking to graduate in December.
December 10	Final date for the completion of the program exit survey and exit interview for teacher candidates seeking to graduate in December; and final date for submission of Praxis II test scores for candidates seeking to graduate in May.
March 15	Final date for submission of the developmental portfolio for teacher candidates seeking admission to PETE during summer or fall; and final date for completion of the showcase portfolio for teacher candidates seeking to graduate in May.
April 15	Final date for successful completion of the fitness test and the developmental portfolio for teacher candidates seeking admission to PETE during the summer or fall; and final date for successful completion of the showcase portfolio for teacher candidates seeking to graduate in May.
May 1	Final date for the completion of the program exit survey and exit interview for teacher candidates seeking to graduate in May.
*June 15	Final date for submission of the developmental portfolio for teacher candidates seeking admission to PETE program in August; and final date for submission of the showcase portfolio for teacher candidates seeking to graduate in August.
*July 15	Final date for successful completion of the fitness test and the developmental portfolio for teacher candidates seeking admission to PETE program in the August; and final date for successful completion of the showcase portfolio for teacher candidates seeking to graduate in August.
August 1	Final date for the completion of the program exit survey and exit interview for teacher candidates seeking to graduate in August; and final date for submission of Praxis II test scores for teacher candidates seeking to graduate in December.
*Summer admission to the PETE program is offered at the discretion of the KPE department. Teacher	

candidates should complete admission during the spring semester for admission the following fall to ensure continuously matriculation.

[2] Courses in Kinesiology and Physical Education (KPED)

Follow this link to KPED course descriptions: [course link](#).

Undergraduate Bulletin
Document Number 3.04.04(b)

Kinesiology and Physical Education (BS)**[1] Bachelor of Science in Kinesiology and Physical Education**

Students interested in teacher licensure with this degree should contact the chair of the Department of Kinesiology and Physical Education.

The degree of Bachelor of Science with a major in kinesiology and physical education (P-8 and 7-12) requires successful completion of a minimum of 133 hours, including (1) the general education component, (2) the degree component, and (3) a 23-hour required minor in health education with an emphasis in P-8 and 7-12 school health (see the [Health Sciences](#) section in this bulletin). The minor is under the direction of the student's minor advisor. General education courses do not count toward the required hours for the major. A grade of C or better is required in all kinesiology courses. This is a selective admissions program.

[1.1] Major in P-8 and 7-12 Physical Education

KPED core curriculum (17 hours): KPED 2381, 3382, 4230, 4300, 4320, and 4395.

P-8, 7-12 Major Requirements (36 hours): KPED 2203, 2223, 2250, 2300, 2340, 3316, 3330, 3331, 3363, 4310, 4380; 4 hours selected from the following courses KPED 2212, 2215 or 2216, 2222, 2224, 2225, 2226, or 3200. Please note proficiency requirements: [BS proficiency link](#).

Coaching Requirements (2 hours): One coaching course selected from KPED 3210, 3211, 3212, 3213, or 3214. Recommended elective courses for prospective coaches are KPED 2395, 3315, 3240, and 4351.

Admission: Admission to the Kinesiology and Physical Education (KPE) program is required for enrollment in designated upper-division professional kinesiology and physical education courses.

[1.2] Admission Requirements

The following minimum requirements must be met for admission to the KPE program:

1. Completion of an Application for Admission. This form may be obtained from the Kinesiology and Physical Education Departmental Office, Room 102 in the Farris Center.
2. A cumulative 2.5 GPA on all coursework attempted. Prior to admission, transfer students with no previous coursework at UCA must also establish a 2.5 GPA in a minimum of twelve (12) semester hours.
3. Completion of 31 hours of pre-requisite courses BIOL 1400 or 1410, MATH 1390 or higher, HED 2201, KPED 1320, 2250, 2300, 2381 and two hours selected from KPED 1125 and 1135 or KPED 2212, 2213, 2214, 2215, 2216, 2222, 2224, 2225 and 2226, SPCH 1300, WRTG 1310 and 1320, with

[1.6] Retention in Field Experiences/Internship

A student may be removed from a field experience, clinical, or internship when any of the following occurs:

- 1. The appropriate authority states that the student's presence in the classroom and/or clinical site is not in the best interest of the school's students or the clinic's clients and/or the appropriate authority requests that the student be removed.
- 2. The student exhibits unprofessional, unethical and/or unlawful behavior.
- 3. A decision has been made that the student cannot receive a grade of C or better in a field experience or internship course.

[1.7] Appeals of Admission and Retention Decisions

If the student so desires, he/she may submit a formal appeal of an admission or retention decision. In such a situation, a student can only initiate an appeal after seeking resolution with the program's Admission and Retention Committee. An appeal must be based on exceptional and extenuating circumstances and other pertinent information not previously available or considered. A formal appeal must be submitted in writing to the Dean of the College (CHAS) within five business days of being notified of admission or retention status. The Dean of the College of Health and Behavioral Sciences will transmit the appeal to KPE Academic Appeals Committee. The candidate may appeal to the CHAS dean, in writing, within five business days of the committee's decision. The student may appeal to the Provost, in writing, within five business days of the Dean's decision.

[2] Courses in Kinesiology and Physical Education (KPED)

Follow this link to KPED course descriptions: [course link](#).

Undergraduate Bulletin
Document Number 3.04.04(c)

Kinesiology and Physical Education (Coaching)



Athletic Training Core (39 hours): KPED 1350, 2353, 3301, 3327, 3335, 3345, 3351, 3354, 4301, 4315, 4325, 4327 and 4330.

Related Requirements (27 hours): BIOL 2405, 2407, 4351 and PHYS 1400 or BIOL 2406, 2407, 4351 and CHEM 1402 or 1450; FACS 1300, 4315; H ED 2201, H SC 3123, and PSYC 1300.

[1.5] ATEP Expenses

Students are responsible for their own transportation to and from their clinical experiences. In addition to general registration fees, a health sciences fee of \$11.00 per credit hour is assessed for registration in the following courses: KPED 2353, 3301 3327, 3335, 3345, 4301, and 4327.

[1.6] Admission to the Athletic Training Education Program

All students are subject to the same admission procedures and standards. Entry into the program is by application and competitive admission only. Applications may be obtained by contacting the Program Director or downloading the application from the athletic training education web page at www.edu/divisions/academic/kped/index2.html. Applications are due in the program office by October 15 for consideration for admission the following spring semester. The athletic training education admissions committee reviews all applications. Applicants will be notified in writing of their status. Students who have not completed prerequisite courses may apply for admission; however, completion of prerequisites is required prior to formal admission into the program. One class is admitted each year. Admission to the ATEP is selective and limited to ensure than an appropriate student to clinical instructor ratio (approximately 8:1) is maintained. Thus, the number of students admitted varies from year to year. Students are advised that their acceptance into this program is not an assumed right. Applicants who believe they have been treated differently from other candidates in admissions decisions are to contact the Chair of the Department of Kinesiology and Physical Education for information about the appeals process. All appeals begin at the departmental level. Students who are not accepted into the program may reapply the following year. Should a student decide not to reapply for admission, the Program Director will help identify alternative academic programs.

[1.6.1] Prerequisites

- 1. Current American Heart Association CPR course certification or American Red Cross CPR course certification valid through the school year; and
- 2. TB skin test results.

Failure to present this documentation to the Program Director will result in administrative withdrawal from the program.

[1.8] Retention in the Athletic Training Education Program

To remain in good standing in the program, students must

- 1. Maintain a cumulative grade point average of 2.5 or better on a 4.0 scale;
- 2. Maintain a professional grade point average of 3.0 or better on a 4.0 scale;
- 3. Maintain a grade of B or better in KPED 2353, 3301, 3327, 4301, and 4327;
- 4. Maintain a grade of C or better in all KPED and related course work;
- 5. Meet the minimum grade requirements in the following athletic training core course work: KPED 2353, 3301, 3327, 3335, 3345, 3351, 3354, 4301, 4315, 4325, 4327 and 4330 (a student failing to meet the minimum grade requirements in these courses will not be allowed to continue into more advanced athletic training core courses until the minimum grade requirement is met);
- 6. Earn a passing score on a developmental portfolio; and
- 7. Earn a passing score on a showcase portfolio.

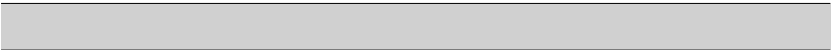
Failure to meet the retention requirements will place the student on probationary status for a maximum of two semesters. If the requirements are not met at the conclusion of the probationary period, the student



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MKTG 4360 Health Care Marketing
 MKTG 4361 Marketing Planning for Health Care Organizations
 KPED 3363 Adapted Physical Education
 KPED 3331 Care and Prevention of Exercise and Sport Injuries
 KPED 4300 Exercise Physiology
 PSYC 3325 Cognitive Psychology
 PSYC 3350 Psychology of Women
 PSYC 3360 Social Psychology
 PSYC 4320 Abnormal Psychology
 PSYC 4325 Physiological Psychology
 SOC 3350 The Family
 SOC 3381 Death and Dying
 SOC 4331 Social Gerontology
 SOC 4334 Medical Sociology
 SOC 4335 Health Organizations
 FACS 3370 Advanced Nutrition
 H ED 3305 Human Sexuality
 H ED 4395 Contemporary Health Concerns - Women
 MGMT 2300 Fundamentals of Entrepreneurship
 PTHY 4183 Directed Study in Physical Therapy
 PTHY 4283 Directed Study in Physical Therapy
 PTHY 4383 Directed Study in Physical Therapy
 SOC 3310 Minority Relations
 SOC 3360 Self and Society
 SOC 3361 Gender Roles

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SOC h.Tcial Gerontology
SOC 4334 Medical Sociology



PSYC 3305 Health Psychology
PSYC 3306 Positive Psychology
PSYC 3331 Psychology of Business and Industry
PSYC 3350 Psychology of Women
PSYC 3370 Sports Psychology
PSYC 4351 Behavior Modification (3351 prerequisite)
PSYC 4353 Practicum in Behavior Modification (4351 prerequisite)
PSYC 4380 Independent Readings
PSYC 4382 Independent Research
PSYC 4390 Tests and Measurements (2330 prerequisite)

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- o PSYC 1300
 - o PSYC 3360 or 4320
 - o BIOL 1400 or 1440
 - o BIOL 2405
 - o PHYS 1405
 - o MATH 1390
3. Upper-division elective approved by advisor (3 hours).

[2.2] Clinical Curriculum at an affiliated hospital program (72 hours)

RADG 2110, 2111, 2112, 2113, 2114, 2120, 2121, 2130, 2211, 2222, 2223, 2224, 2231, 2232, 2233, 2420, 2510, 2530, 3140, 3141, 3142, 3143, 3144, 3150, 3151, 3250, 3740, 3851, 4160, 4161, 4162, 4263, 4164, 4760.

Note: To receive a Bachelor of Science degree in radiography, the student must complete the hospital phase at an affiliated-based radiography program. All prerequisite course work must be complete prior to the program start date.

[3] Courses in Radiography (RADG)

Follow this link to RADG course descriptions: [course link](#).

Undergraduate Bulletin
Document Number 3.04.13

Speech-Language Pathology

Chair: Dr. John Lowe III, 450-3176
Professors: Dr. Logan, Dr. Lowe, Dr. McNiece
Associate Professors: Dr. Lance, Dr. Moss-Logan, Dr. G. McCullough, Dr. McMurtrey, Mr. Thurman
Assistant Professors: Dr. K. McCullough, Dr. B. Ross, Dr. Smiley
Instructors: Ms. Edwards, Ms. Moore, Ms. McDaniel, Ms. S. Ross

Document Number 3e05e05Philosophy and ReligionChair and Professor: Dr. Harvey, 45e-3179
 Professors: Dr. Shelton, Dr. Schedler, Dr. Mehl
 Assistant Professors: Dr. Jakubowski, Dr. Deitrick, Dr. Crockett, Dr. Lotter, Dr. Held, Dr. Mann
 Visiting Assistant Professor: Dr. Thiher
 Lecturer I: Mr. Spivey
 Instructors: Dr. Willden Fey, Mr. Novy, Dr. Williams, Dr. Musser

[5.3] Special Topics6CoursesFollow this link for HIST - Special Topics6course descriptions (social studies, topics6co

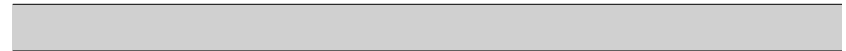
[5.2] World HistoryFollow this link for HIST - World History course descriptions:6course link

9/6/2006 6:48 PMHIST 1310, 1320, 230, 2302 (upper-division US history may be substituted with departmental approval);
 history electives, 12 hours excluding HIST 4310. At least 6 hours must be upper-division.**[3.2] Bachelor of Science in Education in Social
 Services and Field Experience** and meet established criteria for admission to the teacher education program.
 The degree requires 47 hours of General Education, 21-23 hours of Professional Education, 51 hours of
[5.2] World History (HIST) (re) United States History Follow this link for HIST United States History course descriptions:6course link
 4000 level after a student has 45 hours with a GPA of re or higher.

Follow this link for PHIL course descriptions: [course link](#).

[5] Courses in Religion (RELG)

Follow this link for RELG course descriptions: [course link](#).



[3.1.2] Minor in Political Science

PSCI 2300, 2320, and 2340; three hours at the 300 level (see below); and three hours at the 300 level. PSCI 2300 is a prerequisite for all junior- and senior-level courses.

[3.1.3] Issue Areas

American Government and Public Administration: PSCI 4315, 4334, 4335, 4340, 4336, 4351, 4352, 4353, 4354, 4355, 4356, 4357, 4358, 4359, 4360, 4361, 4362, 4363, 4364, 4365, 4366, 4367, 4368, 4369, 4370, 4371, 4372, 4373, 4374, 4375, 4376, 4377, 4378, 4379, 4380, 4381, 4382, 4383, 4384, 4385, 4386, 4387, 4388, 4389, 4390, 4391, 4392, 4393, 4394, 4395, 4396, 4397, 4398, 4399, 4400, 4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4418, 4419, 4420, 4421, 4422, 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433, 4434, 4435, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4449, 4450, 4451, 4452, 4453, 4454, 4455, 4456, 4457, 4458, 4459, 4460, 4461, 4462, 4463, 4464, 4465, 4466, 4467, 4468, 4469, 4470, 4471, 4472, 4473, 4474, 4475, 4476, 4477, 4478, 4479, 4480, 4481, 4482, 4483, 4484, 4485, 4486, 4487, 4488, 4489, 4490, 4491, 4492, 4493, 4494, 4495, 4496, 4497, 4498, 4499, 4500, 4501, 4502, 4503, 4504, 4505, 4506, 4507, 4508, 4509, 4510, 4511, 4512, 4513, 4514, 4515, 4516, 4517, 4518, 4519, 4520, 4521, 4522, 4523, 4524, 4525, 4526, 4527, 4528, 4529, 4530, 4531, 4532, 4533, 4534, 4535, 4536, 4537, 4538, 4539, 4540, 4541, 4542, 4543, 4544, 4545, 4546, 4547, 4548, 4549, 4550, 4551, 4552, 4553, 4554, 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563, 4564, 4565, 4566, 4567, 4568, 4569, 4570, 4571, 4572, 4573, 4574, 4575, 4576, 4577, 4578, 4579, 4580, 4581, 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593, 4594, 4595, 4596, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606, 4607, 4608, 4609, 4610, 4611, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4636, 4637, 4638, 4639, 4640, 4641, 4642, 4643, 4644, 4645, 4646, 4647, 4648, 4649, 4650, 4651, 4652, 4653, 4654, 4655, 4656, 4657, 4658, 4659, 4660, 4661, 4662, 4663, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4672, 4673, 4674, 4675, 4676, 4677, 4678, 4679, 4680, 4681, 4682, 4683, 4684, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710, 4711, 4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721, 4722, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 4730, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4749, 4750, 4751, 4752, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4772, 4773, 4774, 4775, 4776, 4777, 4778, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4818, 4819, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4830, 4831, 4832, 4833, 4834, 4835, 4836, 4837, 4838, 4839, 4840, 4841, 4842, 4843, 4844, 4845, 4846, 4847, 4848, 4849, 4850, 4851, 4852, 4853, 4854, 4855, 4856, 4857, 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 4874, 4875, 4876, 4877, 4878, 4879, 4880, 4881, 4882, 4883, 4884, 4885, 4886, 4887, 4888, 4889, 4890, 4891, 4892, 4893, 4894, 4895, 4896, 4897, 4898, 4899, 4900, 4901, 4902, 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 4912, 4913, 4914, 4915, 4916, 4917, 4918, 4919, 4920, 4921, 4922, 4923, 4924, 4925, 4926, 4927, 4928, 4929, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4947, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 4960, 4961, 4962, 4963, 4964, 4965, 4966, 4967, 4968, 4969, 4970, 4971, 4972, 4973, 4974, 4975, 4976, 4977, 4978, 4979, 4980, 4981, 4982, 4983, 4984, 4985, 4986, 4987, 4988, 4989, 4990, 4991, 4992, 4993, 4994, 4995, 4996, 4997, 4998, 4999, 5000.

International Relations and Comparative Politics: PSCI 4340, 4345, 4388, 4390, 4199-4399, 4400-4409, 4410-4419, 4420-4429, 4430-4439, 4440-4449, 4450-4459, 4460-4469, 4470-4479, 4480-4489, 4490-4499, 4500-4509, 4510-4519, 4520-4529, 4530-4539, 4540-4549, 4550-4559, 4560-4569, 4570-4579, 4580-4589, 4590-4599, 4600-4609, 4610-4619, 4620-4629, 4630-4639, 4640-4649, 4650-4659, 4660-4669, 4670-4679, 4680-4689, 4690-4699, 4700-4709, 4710-4719, 4720-4729, 4730-4739, 4740-4749, 4750-4759, 4760-4769, 4770-4779, 4780-4789, 4790-4799, 4800-4809, 4810-4819, 4820-4829, 4830-4839, 4840-4849, 4850-4859, 4860-4869, 4870-4879, 4880-4889, 4890-4899, 4900-4909, 4910-4919, 4920-4929, 4930-4939, 4940-4949, 4950-4959, 4960-4969, 4970-4979, 4980-4989, 4990-4999, 5000.

Political Theory and Methods: PSCI 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000.

[3.2] Bachelor of Science in Public Administration

The degree of Bachelor of Science, with a minimum of 124 hours, including (1) the general education requirements, (2) the major listed below, and (3) the minor listed below. No minor is required for this degree.

[3.2.1] Major in Public Administration

Core Requirements (39 hours): PSCI 1330, 2340, 3360, 3361, 4375, 4391, 4610; ACCT 2310, 2311; ECON 2320, 2321; MGMT 3340

Areas of Special Emphasis (21 hours): A minimum of six semester hours from two of the following "areas of special emphasis" and nine semester hours electives from any of the areas listed below.

[3.2.2] Areas of Special Emphasis

Public Management: ECON 3310, 4335; MGMT 3300, 3346, 4348; FINA 3330; ACCT 3314, 4304; PSCI 4334

Public Policy: PSCI 3320, 4300 or 4301, 4335, 4336; ECON 3310, FINA 3340

Planning: GEOG 2302, 2345, 3305, 3371, 4313, PSCI 4336, 4351

[3.3] Minor in Presidential Studies

Bulletin

Bulletin Web Document

through master's degree programs.

as dentistry, engineering, medicine, optometry, pharmacy, or veterinary medicine. To provide opportunities for advanced studies in biology,

sciences, computer science, and related disciplines; or to attend professional schools, in such fields

405/505	Marine Ecology	3
405L/505L	Marine Ecology Lab	2
407/507	Marine Aquaculture	3
407L/507L	Marine Aquaculture Lab	3
408/508	Marine Ichthyology	3
408L/508L	Marine Ichthyology Lab	3
421/521	Coastal Vegetation	2
421L/521L	Coastal Vegetation Lab	1
423/523	Marine Mammals	3
423L/523L	Marine Mammals Lab	3
490/590	Special Problems in Marine Science	TBA

Undergraduate Bulletin
Document Number 3.06.03

Chemistry

Chair and Professor: Dr. Taylor, 450-3152

Professors: Dr. Krause, Dr. Manion

Associate Professors: Dr. Desrochers, Dr. Dorey

Assistant Professors: Dr. Abrams, Dr. Bridges, Dr. Carter, Dr. Isom, Dr. Kelley, Dr. Perry, Dr. Steelman, Dr. Tarkka, Dr. Weaver

[1] Purposes

The Department of Chemistry curriculum provides a broad range of instruction in chemistry. It includes a general education course and lower-division courses in general chemistry and organic chemistry for students with a wide variety of career goals such as a major in one of the natural sciences, pre-healing arts (nursing, medicine, dentistry, veterinary medicine), engineering, or secondary school teaching.

Students majoring in chemistry receive instruction in the fundamental areas of chemistry subsequently supplemented by more advanced courses in appropriate areas. Laboratory instruction is emphasized at all levels, and students are encouraged to participate in collaborative laboratory research with faculty members. Students completing a chemistry major program of study are prepared for careers as professional chemists as well as for graduate study in chemistry or other postgraduate professional schools.

Document Number 3.06.04**Computer Science**

Chair and Professor: Dr. Hu, 450-3401

Professor: Dr. Seidman (College Dean)

Assistant Professors: Dr. Duan, Dr. Paruchuri, Dr. Sun, Dr. Wei

Lecturers: Mrs. Hambuchen, Mr. Smith, Mrs. Thessing

[1] Purposes

The Department of Computer Science offers a degree leading to a Bachelor of Science in Computer Science, a Master of Science degree in Applied Computing, and a minor in Computer Science. The Bachelor of Science degree emphasizes problem solving in the context of algorithm development and software implementation, and prepares students for effectively using modern computer systems in various applications. This BS program requires a minimum of 48 credit hours in computer science, about 30 credit hours in mathematics and the sciences, and the university general education program. The departmental curriculum provides required computer science courses such as programming languages, data structures, computer architecture and organization, algorithms, database systems, operating systems, and software engineering; as well as elective courses in artificial intelligence, computer-based communication networks, distributed computing, graphics, human-computer interaction, multimedia, scientific computing, and other current topics in computer science.

The purpose of the BS in computer science is twofold: (1) to prepare the student for a position involving the design, development and implementation of computer software and systems, and (2) to prepare the student for entry into a program of graduate study in computer science and related fields. The educational objectives for the BS degree program are:

Objective 1: Grow as well-educated professionals with integrated high-level understanding of computing systems, processes, and the main body of knowledge of computer science as a whole;

Objective 2: Be able to creatively apply essential concepts, principles, and practices to construct appropriate solutions and analyze application processes using professional judgment in the selection and application of theory, tools and techniques;

Objective 3: Work productively, as an individual and as a team member, to produce work involving problem identification, analysis, design, and development of a software system within a professional, legal, and ethical framework; and

Objective 4: Maintain their skills as the field evolves, and appreciate the needs for continuing professional growth and development to keep current in the profession.

To achieve the above objectives, upon graduation, a student should possess capabilities and skills appropriate to immediate employment in a position involving the design and implementation of computing systems, and for graduate study in computer science related fields. Specifically, the curriculum has the following outcomes:

Outcome 1: Concrete knowledge of essential facts, concepts, principles, and theories in computer systems and applications. These include the following:

- a. Proficiency in at least one high-level programming language, to enable the construction of software systems that effectively solve practical problems with various kinds of data and information;
- b. Deep understanding of computer organization and architecture at both assembly language and operating system levels to support the effective operation and application of computing hardware and software systems;

[4] Master's degree

[*Graduate Bulletin*](#)

[5] Courses in Computer Science (CSCI)

[course link](#)

[1] Purposes



9/6/2006 6:48 PM The Bachelor of Science in Education degree with a major in mathematics requires the successful completion of 120 hours including (1) the general education component, (2) secondary teacher education requirements, (3) a minimum of six hours in computer science, and (4) the major requirements listed below.

[4.3.1] Major in Mathematics Education

Mathematics hours required: 37
TOTAL :79

[3.1.6] Physical Science Track (58 hours)

The physical science track is intended for those students who are interested in physical science, do not intend to specialize in either physics or chemistry, and prefer a less demanding curriculum than that of the chemical physics track. The program is very flexible and can be tailored to the particular needs and interests of the individual student by using electives, of which at least 18 hours are required-nine in physics and nine in chemistry. The student's advisor will work closely with the student to achieve the optimal curriculum for the student. This track requires a minor.

For the courses required in addition to the core and for a suggested sequence of physics and chemistry courses, please contact the department chair or consult the program completion plan for the track: [link](#) (PDF).

Physics hours required: 24
Mathematics hours required: 13
Chemistry hours required: 21
TOTAL: 58

[3.1.7] Applied Physics Track (79 hours)

The applied physics track is designed for the student whose interests lie in the application of the knowledge and methods of physics in industrial and practical situations. It offers excellent preparation both for immediate entry into the industrial work force and for engineering school. The program is unique among the tracks in that it contains an internship option, whereby the student obtains real-world experience that is integrated into his/her studies. Alternatively, the student might work on an application-oriented research project. The program also requires business courses to provide the student background for the business environment. The student's advisor will work closely with the student to achieve an optimal integration of studies and practical experience. This track does not require a minor.

For the courses required in addition to the core and for a suggested sequence of courses, please contact the department chair or consult the program completion plan for the track: [link](#) (PDF).

Physics hours required: 27
Mathematics hours required: 28
Chemistry hours required: 12
Computer science hours required: 3
Business hours required: 3
Internship/research hours required: 6
TOTAL: 79

RELG 3315 Religion and Culture: Chinese Philosophy and Religion
WLAN 2315 Cultural Studies (when Asian theme is offered)

Undergraduate Bulletin
Document Number 3.07.03

Environmental Science

Environmental Science is an interdisciplinary program in which students follow one of the three tracks listed below. Contact the faculty advisors for further information.

Program Coordinator and Biology Track Advisor: Dr. G. Adams, (501) 450-5917
Chemistry Track Advisor: Dr. Perry, (501) 450-5937
Planning and Administration Track Advisor: Dr. Allender, (501) 450-5641

[1] Purposes

The interdisciplinary Environmental Science Program at UCA is designed to provide students the opportunity to assess the complexity of evtnuity

scientific research to audiences as diverse as government agencies, citizen committees, corporate decision-makers, and the general public.

Employment for graduates may be found in both public and private agencies with environmental concerns. An especially effective and marketable skill developed in this track is the use of Geographic Information Systems (GIS), which allows scientists and planners to map, analyze, and even predict environmental data based on location.

The Planning and Administration track requires the completion of the Environmental Sciences core curriculum (38-39 hours), plus the following (45 hours):

- MIS 2343 Desktop Decision Support Strategies
- MIS 3321 Managing Systems and Technology
- GEOG 2320 Introduction to Geographic Information Systems
- GEOG 2375 Cartography
- GEOG 3325 Urban and Regional Planning
- À OR
- PSCI 4351 Community and Regional Planning
- PSCI 2340 State and Local Government
- PSCI 3360 Public Administration
- SOC 1300 Principles of Sociology
- H ED 4393 Environmental Health Problems
- WRTG 3310 Technical Writing

Electives: Fifteen hours chosen from the following:

- Any of the courses in the Biology or Chemistry emphasis areas and most math or physics courses with consent of program director
- SOC 3340 Urban Sociology
- SOC 4301 Social ffe
- S2C 4301 SoPo0 Py2oP3eology



HIST 4305 Latin America Through History, Film, and Literature
HIST 4391 Topics in History (when Latin American topic offered)
HIST 4328 Modern Latin America: the 20th Century
HIST 4353 Inter-American Relations
PSCI 4399 Studies in Political Science (when Latin American topic offered)
GEOG 4360 Special Problems in Geography (when Latin American topic offered)
SOC 4390 Selected Problems in Sociology (special topic: Provision of Rural Health Services in Honduras) *or*
H SC 4314 Health Education Workshop (special topic: Provision of Rural Health Services in Honduras)
WLAN 2315 Cultural Traditions (when Latin American topic offered)
SPAN 2320 Spanish Conversation and Composition II
SPAN 2330 Business Spanish
SPAN 3313 Latin-American Civilization
SPAN 3321 Hispanic Literature II
SPAN 3398 Travel Seminar in Mexico, OR HIST 3398 Travel Seminar in Mexico, OR SOC 3398 Travel Seminar in Mexico
SPAN 4395 Advanced Hispanic Literature (when Latin American topic offered)
SPAN 4396 Studies in Hispanic Civilization (when Latin American topic offered)

LANGUAGE REQUIREMENT: Three (3) semester hours of Spanish at the 2000-level or above. Please contact the Coordinator for specific course prerequisites

For more information contact Dr. Patrick O'Connell, patrickO@uca.edu, Coordinator, Irby 415, (501) 450-5096.

Undergraduate Bulletin
Document Number 3.07.07

Religious Studies

Director and Assistant Professor: Dr. Deitrick (Philosophy and Religion), 450-5592
Professors: Dr. Barnes (History), Dr. Brodman (History), Dr. Fox (Sociology), Dr. Frontain (English), Dr. Harvey (Philosophy and Religion), Dr. Mehl (Philosophy and Religion), Dr. Pouwels (History), Dr. Schedler (Philosophy and Religion), Dr. Shepherd (Sociology)
Assistant Professors: Dr. Crockett (Philosophy and Religion), Dr. Winden Fey (Division of Undergraduate Studies; Philosophy and Religion)
Instructors: Mr. Spivey (Philosophy and Religion)

[1] Purposes

The goal of the interdisciplinary religious studies program is to educate the undergraduate student with an understanding of the methods and subject matter of the study of religion. Generally, the program will serve the interests of liberal education by developing in the student the skills of careful and critical reading, writing, thinking, and speaking. More specifically, the program will provide a comprehensive and clear exposure to the variety of religious expression world-wide, a critical understanding of personal, social, and cultural dimensions of religion, and a thorough preparation for students who intend to pursue graduate or professional study.

A student who majors in religious studies will have a general knowledge of the beliefs and practices of the major world religions and an in-depth knowledge of at least one major religious tradition, will be skilled in the critical analysis of religion as a cultural phenomenon and in the ability to draw connections among different historical and cultural contexts of religion, will have a general knowledge of two different

histories. In addition to clinical services, the hygienist educates patients on good oral hygiene and nutrition for health promotion and disease prevention.

Dental hygienists are employed in the offices of general or specialty dentists; military, state, or federal health agencies; schools; industry; and sales of dental products.

[2] Requirements

Students pursuing a career in dental hygiene attend UCA for two years to complete general education and pre-clinical requirements and then transfer to a dental hygiene department for two years to complete the professional education. Students should contact the dental hygiene program they plan to attend for specific information about degree requirements.



CSCI 3350 File Processing
 CSCI 3370 Programming Languages
 Computer Science Elective
 Computer Science Elective
 MATH 2330 Discrete Mathematics
 MATH 2371 Calculus III
 MATH 3320 Linear Algebra
 MATH 3331 Differential Equations
 PHYS 1441 University Physics 1
 PHYS 1442 University Physics 2
 WRTG 3310 Technical Writing
 Upper Level Humanities/Social Science Electives (6 hours)

[3.5] Industrial Engineering

Students successfully completing this program by completing the general education program, the 3-2 core, the courses listed below and the specific requirements of the appropriate engineering degree at UAF, will earn a Bachelor of Science in Physics (Applied Physics track) or Mathematics (Applied Mathematics track at UCA and a Bachelor of Science in Industrial Engineering at UAF.

CHEM 1451 College Chemistry II
 Computer Science Elective
 MATH 2371 Calculus III
 MATH 2311 Statistics
 MATH 3320 Linear Algebra
 MATH 3331 Differential Equations
 MATH 2311 Statistics
 MATH 4315 Partial differential Equations
 PHYS 2443 University Physics 3
 PHYS 2311 Statics
 PHYS 3360 Electromagnetism 1
 PHYS 3110 Junior Laboratory 1
 PHYS 3343 Thermal Physics
 PHYS 3120 Junior Laboratory 2
 ECON 2320 Principles of Macroeconomics
 Upper Level Humanities/Social Science Electives (6 hours)

[3.6] Mechanical Engineering

Students successfully completing this program by completing the general education program, the 3-2 core, the courses listed below and the specific requirements of the appropriate engineering degree at UAF, will earn a Bachelor of Science in Physics (Applied Physics track) at UCA and a Bachelor of Science in Mechanical Engineering at UAF.

CHEM 1451 College Chemistry II
 CSCI 1470 Computer Science I
 MATH 2371 Calculus III
 MATH 3320 Linear Algebra
 MATH 3331 Differential Equations
 MATH 4305 Applied Math I
 MATH 4306 Applied Math II
 PHYS 2443 University Physics 3

PHYS 2311 Statics
 PHYS 3341 Mathematical Methods in Physics
 PHYS 3342 Mechanics
 PHYS 3360 Electromagnetism I
 PHYS 3110 Junior Lab 1
 PHYS 3343 Thermal Physics
 PHYS 3120 Junior Lab 2
 Physics Elective
 ECON 2320 Principles of Macroeconomics
 Upper Level Humanities/Social Science Electives (6 hours)

Undergraduate Bulletin

Document Number 3.08.05

Pre-Law

Advisor: Dr. McInnis (Political Science), 450-3412

Law schools, unlike medical schools, do not require any particular degree or course of study for admission. Each applicant is required to have completed only a bachelor's degree and the Law School Admissions Test.

A pre-law major at UCA may choose any field in which to complete a bachelor's degree. Several things should be kept in mind when making this choice. A prospective law student should possess three basic qualities:

1. *Skill in the comprehension and use of language.* Language is the lawyer's working tool. In seeking to convince, in drafting legal instruments and legislation, and in oral and written arguments, a lawyer must have the capacity to communicate with clarity, precision, and persuasiveness. A program of study which requires one to write is, therefore, essential.
2. *Analytical and problem-solving skills.* An important part of the lawyer's work is problem-solving. Creative and analytical thinking requires the development of skills in research, use of facts, deductive and inductive reasoning, critical analysis, and the systematic formulation of principles and concepts.
3. *An understanding of and interest in human institutions and values.* Lawyers are not just engaged in a process like that of a worker changing a tire on a car, rather, they are forces in the operation and shaping of the institutions and values with which humankind is concerned. The work which lawyers do can have a tremendous impact on a human life and even a whole community. A broad background in history, government, philosophy, economics, and the arts is, therefore, quite important.

Each pre-law student at UCA should consult with the pre-law advisor to choose a course of study which best fits the student's needs and desires and offers the best preparation for law school. Students should also consult with the pre-law advisor for assistance in selecting the appropriate law schools to which they should apply.

Undergraduate Bulletin

Document Number 3.08.06

Pre-Medicine

Premedical Advisory Committee: Dr. Manion (Chair; Chemistry), Dr. Weaver (Chemistry), Dr. Martin (Biology), and Dr. Zehr (Biology)

Physics (4 hours): PHYS 1410 College Physics 1

Humanities electives to bring total to at least 65 credit hours. ACCEPTABLE: Survey courses in art, music, history, theater, literature, philosophy, religion, foreign language, sign language, psychology, sociology, anthropology, political science, and geography. UNACCEPTABLE: Courses in health, physical education, business, natural science, military science, education, studio courses in art, music, or theater, and computer science.

* Notes:

1. No more than six hours of CLEP or credit by examination.
2. To help with the successful completion of the professional program, the Pharmacy Faculty at UAMS encourage the pre-pharmacy student, if possible, to take courses in Technical Writing (WRTG 3310), Anatomy and Physiology (BIOL 2405), Logic (PHIL 2310), Spanish (SPAN 1310 or 1320), Sign Language (SPH 2303), biochemistry, genetics, and cell biology. Inspect the information above to see where these suggested courses might fit into the program.

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Pre-Veterinary Medicine

Advisor: Dr. Hill, (501) 450-5925, bhill@uca.edu

The state of Arkansas does not have a school of veterinary medicine, but any student interested in becoming a veterinarian may enroll in the pre-veterinary medicine curriculum at UCA and prepare for application to any of several out-of-state schools. For example, the School of Veterinary Medicine at Louisiana State University (LSU) admits numerous Arkansas residents each year. Arkansas residents also have been admitted to Tuskegee University (Alabama), Kansas State University, the University of Missouri, and Oklahoma State University.

The interested student should anticipate spending three to four years preparing for admission to any school of veterinary medicine. The major and minor fields of study most commonly chosen are biology and chemistry, respectively. Students entering veterinary medicine school before they have completed a degree may, upon successful completion of the first year of veterinary school, be awarded a degree from UCA provided they have met the following requirements:

- Completion of 96 hours of study, with at least 75 hours in residence at UCA,
- Completion of all general education requirements, and
- Completion of a major area of study. Courses in the veterinary medicine curriculum may, with the approval of the department chair, be used to satisfy the major requirements.

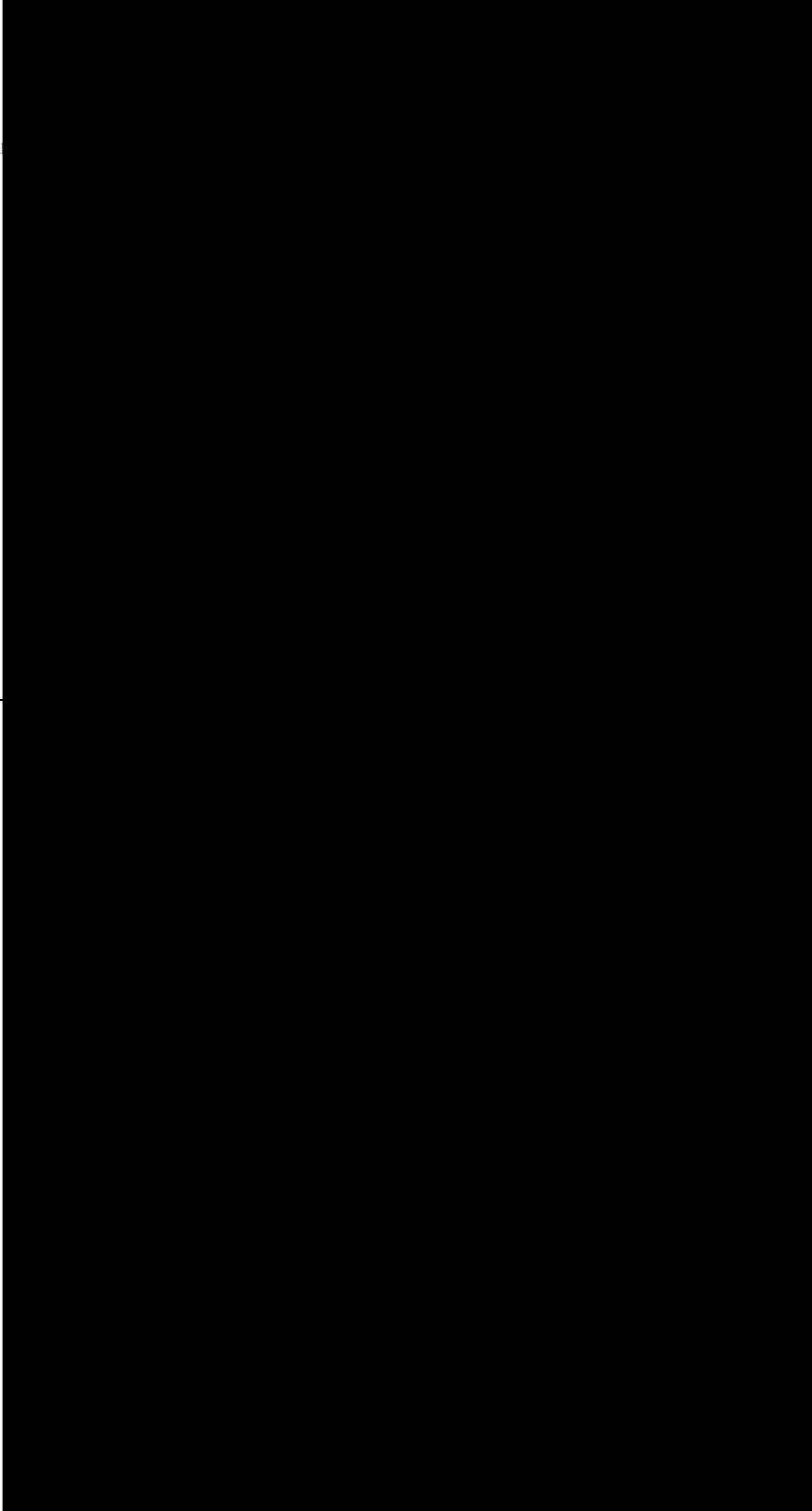
The minimum course requirements for admission to LSU are given below. All requirements for admission may be completed at UCA. Because these requirements may change and because other schools' requirements differ from these, correspondence with each of the schools to which the student will apply should begin early enough to allow correction of deficiencies in that student's course of study.

Writing: WRTG 1310, 1320
Biology: BIOL 1440, 1441, 4420
Chemistry: CHEM 1450, 1451, 2401, 3411, 4320
Mathematics: MATH 1580; or 1390, 1392
Physics: PHYS 1410, 1420

Speech: SPCH 1300
Electives (12 hours)

Granting of credit for CLEP subject exams may be considered. Credit earned by passing CLEP general exams is not accepted by LSU. For this and for any other exception, the student must secure permission in advance from the School of Veterinary Medicine at LSU.





session.

4. Original or certified copies of all secondary, college, and university academic transcripts, including certified English translations, if applicant is also applying for conditional admission to UCA in order to pursue an undergraduate degree after completing the IEP.
5. TOEFL score, if available, although it is not required for admission to the IEP.





consumer rights; enforceable contracts; business and its environment including social responsibility, ethics, and protecting the physical environment. Prerequisite: sophomore status. Fall, spring, summer.

3311 INTERMEDIATE ACCOUNTING I This is a required course for accounting and finance majors. The mode of instruction is lecture/problem solving. The course covers valuation, classification, and presentation in financial statements of business enterprises with emphasis on determination and valuation of assets and current liabilities. Prerequisite: ACCT 2311. Fall, spring, summer.

3312 INTERMEDIATE ACCOUNTING II This is a required course in the accounting major and an elective course in the finance major. The mode of instruction is lecture/problem solving. The course is a continuation of financial reporting concepts with emphasis on the statement of cash flows and the valuation of long-term liabilities and stockholder's equity on the balance sheet. In addition, the valuation, classification, and presentation of pensions, leases, and income taxes is covered. Prerequisite: ACCT 3311. Fall, spring, summer.

3314 MANAGERIAL ACCOUNTING Course is not open to accounting majors. Degree credit is not given for both ACCT 3314 and ACCT 3315. The mode of instruction is lecture/problem solving. The course provides a study of the types of information managers need to plan and control business operations, where

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Economics, Finance, and Insurance and Risk Management

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[1] Courses in Economics (ECON)

1310 MODERN POLITICAL ECONOMY An elective course which can satisfy the general education requirements. The mode of instruction is lecture/discussion. Human social order from the economic perspective. Roles and institutions developed in the Western world to deal with problems of scarcity, alternatives, and choice. Major tools of economic analysis and application to diverse social and political problems, both contemporary and historic. Fall, spring, summer.

2310 GLOBAL ENVIRONMENT OF BUSINESS A general education elective in the category of behavioral and social sciences and a required course of all business majors. The mode of instruction is lecture/discussion. Examination of the various economic, institutional, and cultural practices that guide international trade and commerce in the modern world. Includes international institutions, exchange rates, and commercial policy. Fall, spring, summer.

2320 PRINCIPLES OF MACROECONOMICS Required course of all business majors in the business foundation. The mode of instruction is lecture/discussion. The course is half of the disciplinary core in economics, designed for students who will need competence in interpreting macroeconomic events and forecasting the effects of macroeconomic policies within their major studies and in subsequent careers. It is a study of the market for goods, capital, labor, and money; national economic goals and policies. Tools of macroeconomic analysis. Prerequisite: MATH 1390. Fall, spring, summer.

2321 PRINCIPLES OF MICROECONOMICS The course is required of all business majors in business foundation. The mode of instruction is class lecture and discussion. The course is half of the disciplinary core in economics, designed for students who will need competence in employing the tools of economic analysis within their major studies and in subsequent careers. It is a study of markets, resource allocation, consumer and producer behavior, production, costs, market structure, and the role of government in markets. Tools of microeconomics analysis. Prerequisite: MATH 1390. Fall, spring, summer.

3310 PUBLIC FINANCE This course is an elective within the economics major, and is presented in a lecture/discussion format. It uses microeconomic tools of analysis to understand how governments raise and spend money. Concepts covered include the influence of government on resource allocation, government response to market failure, public choice, social goods, the nature and extent of government expenditures and revenues, public debt, and the impact of government fiscal policy. Prerequisites: ECON 2320 and 2321. Spring.

3315 LABOR ECONOMICS An elective for majors and minors in economics and business administration, this course applies the elementary tools of economics to the unique characteristics and problems of the labor market. It considers both the demand (employer) and supply (employee) sides of the market to gain an understanding of the impacts of both government programs and private decision making. Specific topics include analysis of the labor force and labor supply, short- and long-run labor demand, wage determination, human capital theory, migration, labor-market discrimination, life-cycle patterns of work, and the effects of unions. The method of instruction is lecture/discussion. Prerequisite: ECON 2321. On demand.

3330 ENVIRONMENTAL ECONOMICS An elective course for economics majors. A lecture/discussion format will be used. There will be an application of economic tools and concepts to describe and explain the

efficient use and preservation of natural resources and environmental quality. Topics covered include regulation, cost-benefit, sustainable development, global comparisons, air pollution, species extinction waste products management, and overpopulation. Prerequisite: ECON 1310 or equivalent. Spring.

3383 INTERNSHIP IN ECONOMICS This is an elective course open to Economics majors. Internships are available to provide students academic credit for experiential learning. Three credit hours will be granted for this course upon completion of a minimum of 120 contact hours at an approved College of Business student internship. Prerequisite: Junior standing. On demand.

4320 COMPARATIVE ECONOMIC SYSTEMS An elective in the economics major. The mode of instruction is lecture/discussion. Comparative analysis of the theories and practices of major economic systems. Consideration of the role of government in the economy. Economic systems of North America, Japan, and Europe. Prerequisites: ECON 2320 and 2321. Fall.

4333 INTERMEDIATE MICROECONOMICS A required course for the BS degree in economics. Instructional delivery includes both lecture and discussion. The course examines the determination of prices and their role in directing consumption, production, and distribution under both competitive and non-competitive market situations. Prerequisites: ECON 2320 and 2321. Fall.

4335 INTERNATIONAL TRADE A required course for the international trade concentration and an elective for economics majors. Instructional mode includes both lecture and discussion. The course will cover trade theory and policy, foreign exchange systems and markets, the macroeconomic implications of the balance of payments, motivation for trade, gains from trade, and the emergence and impact of free trade zones. This course is designated a writing intensive course for majors in Economics and General Business Administration. Prerequisites: ECON 2320 and 2321. Fall.

4340 MANAGERIAL ECONOMICS An elective course for economics. Instructional mode includes both lecture and discussion. The course focuses on the application of the tools of microeconomic theory to the analysis and solution of managerial problems confronting the business firm. The course utilizes spreadsheets and data analysis and examines alternative pricing strategies and organizational structures of firms and industries. Prerequisites: ECON 2320 and 2321. Fall.

4360 HEALTH CARE ECONOMICS This course is an elective within the economics major. The method of instruction is class lecture and discussion as well as student research, writing, and presentation, using both library and Internet sources. Students learn to apply the tools of economic and financial analysis to numerous current issues in the United States health care system, including market and institutional characteristics of health care delivery, consumer choice and principal-agent relationships in health care, and government programs and policies. Survey of major delivery and financing reform proposals. Prerequisite: ECON 2321. On demand.

4370 INTERMEDIATE MACROECONOMICS A required course in the BBA concentration in international trade and the BS in economics. The mode of instruction is lecture/discussion. Determinants of aggregate levels of production, employment, and prices. Public policy implications of recent developments in business and the macroeconomy. Prerequisites: ECON 2320 and 2321. Spring.

4375 ECONOMICS OF DEVELOPING NATIONS This is a required course for the developing nations track in the global core for the BA concentration in international trade. The mode of instruction is lecture/discussion. Important approaches to economic development and analysis of the factors that influence economic growth and development. Emergence of new economic powers in Asia, Latin America, and Europe. This course is designated a writing intensive course for majors in Economics and General Business Administration. Prerequisites: ECON 2320 and 2321. Spring.

4380 SENIOR SEMINAR IN ECONOMICS Designed as the capstone course for the BA and BS economics

majors, it is the required writing-intensive course for all BA and BS economics majors. It should be taken during a student's senior year. The mode of instruction is seminar with active student participation including research presentations and writing of a term paper and shorter papers. The topics covered will vary. Prerequisite: Consent of Instructor or Department Chair. Spring.

4383 INTERNSHIP IN ECONOMICS This is an elective course open to Economic majors. Internships are



studies. Prerequisites: INSU 3324 or permission of the instructor. Spring.

3324 RISK AND INSURANCE This is a required course in the insurance and risk management major and an elective course in the Finance major. The mode of instruction is lecture and discussion. Introduction to the basic principles of insurance. Review of the risks that households and businesses experience and the policies used to ensure against these risks. This course is designated a computer intensive course for majors in Insurance and General Business Administration. Fall, spring.

3330 SURPLUS LINES AND REINSURANCE This is an elective course for insurance and risk management majors. It provides an overview of the nature and operation of the surplus lines insurance market as well as an introduction to the reinsurance sector of the insurance industry. It examines risk financing techniques, marketing, underwriting, and reinsurance. The method of instruction is lecture and discussion. Prerequisite: INSU 3324. On demand.

3383 INTERNSHIP IN INSURANCE AND RISK MANAGEMENT This is an elective course open to Insurance and Risk Management majors. Internships are available to provide students academic credit for experiential learning. Three credit hours will be given for this course upon completion of a minimum of 120 contact hours at an approved CBA student internship. Prerequisite: Junior status. On demand.

4310 INTERNSHIP IN INSURANCE AND RISK MANAGEMENT This is an elective course for insurance and risk management majors. Primarily summer internships are available to provide hands-on work experience in an insurance or risk management firm. In addition to gaining valuable insight into career paths, students are required to analyze and report on the firm's operations, strategic plans, and growth prospects. Up to 6 credit hours available (based on 125 hours of employment per credit hour) but not required for graduation. Prerequisite: Senior status. Fall, spring, summer.

4315 EMPLOYEE BENEFITS (cross-listed as MGMT 4315) This is a required course in the insurance and risk management major. The course focuses on the study, design, and administration of group health, disability, life insurance, and retirement plans. Also includes a study of social security and other related programs for mitigating economic losses due to personal and business risk problems. The course also discusses profit-sharing, 401(k) plans, and flexible benefit plans. Primary modes of instruction are lectures, discussions, and case studies. Prerequisite: Junior status. Fall.

4320 CORPORATE RISK MANAGEMENT This is the required writing-intensive course in the insurance and risk management major. Primarily an applications course that seeks to identify, analyze, and deal with business loss exposures including acts of nature, liability claims, and price risk. Included are selection and application of risk control and risk financing tools such as risk retention, reduction, and transfer including insurance and hedging with financial derivatives. Prerequisite: Junior status. Fall.

4340 INSURANCE OPERATIONS AND REGULATION This is an elective course for insurance and risk management majors. This course is designed as an overview of insurance company operations and regulation of the insurance industry. Emphasis will be upon regulation, distribution systems, property and liability insurance underwriting, loss control, premium auditing, reinsurance, ratemaking principles and process, insurer financial management, and property and liability claims adjusting. Prerequisites: INSU 3324 and INSU 3320, or permission of the instructor. On demand.

Marketing and Management

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[1] Courses in Marketing (MKTG)

2350 BASIC MARKETING An elective course not open to business majors. A required course for marketing minors and an elective course for management minors. Students earning a BBA degree will not be given credit for this class. Course is designed to provide the non-business major with an understanding of basic marketing concepts, terminology, technology, processes, and practical applications. The method of instruction includes lectures, discussion, videos, and practical applications of material. Fall, spring.

3350 PRINCIPLES OF MARKETING A required course for all business majors in the business core. The course examines the role of marketing and marketing processes. The student will acquire an understanding of marketing concepts, terminology, associated technologies, practical applications, and how marketing relates to other business functions. The method of instruction includes lectures, discussion, and practical applications of material. Prerequisites: ACCT 2310, 2311; ECON 2320, 2321; QMTH 2330. Fall, spring, summer.

3351 RETAIL MANAGEMENT An elective in the marketing and management majors and minors. The course is intended for students interested in key aspects of retail management. A lecture/discussion format is used to consider store-based and non-store retailing, retail market and financial strategy, retail location and site selection strategy, merchandise management, budgeting, retail buying, pricing, and customer service. Prerequisite: MKTG 3350 or MKTG 2350. Fall.

3356 FASHION MERCHANDISING AND E-COMMERCE An elective in the marketing major and minor. The course examines marketing fundamentals, retailing, and salesmanship as applied to the merchandising of fashion goods. Considerable emphasis on e-commerce, field trips, and guest lecturers. Class lecture and discussion are supplemented by students' going to market and presenting research dealing with fashion to designers. Prerequisite: Consent of instructor. Spring.

nonprofit organizations relating to stockholders, prospective investors, employees, communities, customers, and government agencies. Uses lecture, discussion, and a required group project. Prerequisite: MKTG 3350 or MKTG 2350. Spring.

3382 INTERNSHIP IN MARKETING An elective in the marketing major. Internships are available to provide students academic credit for experiential learning. Three credit hours will be granted for this course upon completion of a minimum of 120 contact hours at an approved CBA Student Internship. Prerequisite: Junior standing. On demand.

4320 SELECTED TOPICS IN MARKETING An elective course in the marketing major and minor. Course uses a lecture/discussion approach to examine topics not included in other marketing courses. Prerequisite: MKTG 3350 or MKTG 2350. On demand.

4353 MARKETING RESEARCH AND DATA MANAGEMENT A required course in the marketing major. Course involves the application of research methodology to marketing and management problems. Includes research design, questionnaire construction, sample design, and quantitative data analysis. The goal of the course is to give students the tools either to perform marketing research projects or to interpret the output of such projects. The course involves lecture, discussion, several workshops, computer applications via SPSSW, and a group project. This course has been designated as the computer applications course for the marketing major. Prerequisite: MKTG 3350. Fall, spring.

4354 CUSTOMER BEHAVIOR A required course in the marketing major. Examines demographic, psychographic, and cultural forces that influence the behavior of customers. Includes internal and external forces and explains the consumer decision process. Uses lecture, discussion, and a required group project. Prerequisite: MKTG 3350. Fall, spring.

4355 MARKETING MANAGEMENT A required course in the marketing major and an elective in the management major. Focuses on applying marketing concepts to business cases and studying the managerial implications of product, pricing, distribution, promotion, and their relationships to customers and business environment. Uses lecture, discussion, and student group work/presentations. This course has been designated as the writing-intensive course for the marketing major. Prerequisites: MKTG 3350 plus 6 hours of marketing or consent of instructor. Fall, spring.

4360 HEALTH CARE MARKETING An elective in the marketing major and minor. Course uses applications of basic theoretical and practical marketing knowledge to the health care industry and gives students an exposure to contemporary health care marketing literature. The goal of the course is to orient students to the marketing and management of health care services. The format of the course includes lecture, discussion, presentations by health care practitioners, and an in-depth examination of health care marketing and management literature. Prerequisite: Consent of instructor. Fall.

4361 MARKETING PLANNING FOR HEALTH CARE ORGANIZATIONS An elective in the marketing major and minor. Examines the process of developing a health care marketing plan and has the goal of equipping students with the knowledge of how to construct a business marketing plan. Uses a combination of lecture, discussion, presentations by health care practitioners, case studies, and a group project, which involves writing a business marketing plan for a health care institution. Prerequisite: Consent of instructor. Spring.

4362 SERVICES MARKETING A required course in the marketing major. The course involves the study of marketing in the context of service industries. Special attention will be placed on the unique characteristics of services, as opposed to products, and the importance of services in the US economy. Several of the major services industries (banking, airlines, health care, electronic brokerage) will be specifically examined. The goal of this class is to give students an in-depth knowledge of the services industry. Uses a combination of lecture, discussion, case studies, and a group project. Prerequisite: MKTG 3350. Fall, spring.

plan, design, and start a new business venture and to reduce or avoid many of the problems encountered by such ventures. Lectures, case studies, and discussions are used to examine the issues and problems faced by new business ventures. Prerequisite: Consent of instructor. On demand.

3315 DIVERSITY/MULTICULTURAL COMMUNICATIONS An elective course for management and marketing majors and minors, this course is designed to increase the effectiveness of communication across cultures in today's global business environment. Course content focuses on the application of theory and research in multicultural communication. Specific topics addressed include intercultural communication (between members of different cultures), multicultural communication (among members of various cultures), culture-biased assumptions, contrasting cultural values, communication and negotiation strategies, verbal and nonverbal patterns, culture shock, and country-specific information. Discussion based course. On demand.

3340 MANAGING PEOPLE AND WORK A required course for all business majors in the business core. Provides an introduction to policies, organizational behavior, and theories and practices used by managers to reach objectives. Lecture/discussion. Prerequisites: ACCT 2310, 2311; ECON 2320, 2321; QMTH 2330. Fall, spring, summer.

3342 INTERNATIONAL BUSINESS An elective course for management and marketing majors and minors. The course involves a study of foreign operations of American firms. Emphasizes the various environments, theories, and institutions in international trade, the strategies of multinationals, and the functional areas of managing international operations. Uses the Internet in researching international business topics. Lecture/discussion format supplemented by student presentations of studies on selected countries. Prerequisite: Consent of instructor. Fall.

3344 MANAGING PRODUCTION AND OPERATIONS A required course in the business core for all business majors except those majoring in accounting. An elective course for management minors. Involves a conceptual and analytical examination of the strategic, functional, and operational decisions made as a part of an organization's production/operations function. Lecture/discussion. Prerequisites: ACCT 2310, 2311; ECON 2320, 2321; QMTH 2330. Fall, spring, summer.

3346 PERSONNEL/HUMAN RESOURCE MANAGEMENT An elective course for management and marketing majors and minors. Course examines the role of personnel/human resource management in organizations. Emphasizes selecting, developing, and compensating the organization's human resource. Lecture/discussion. Prerequisite: MGMT 3340 or MGMT 2341. Fall, spring.

3349 SMALL BUSINESS MANAGEMENT An elective course for management and marketing majors and minors. Class is intended for students who may form or be employed by a small or family-owned business. Supplements management theory by providing well-balanced coverage of critical small business issues and practical experience in the determination and solution of actual business problems. Internet applications and case studies in the small business community augment lecture and discussion and are used to examine the issues and problems faced by small and family-owned businesses. Prerequisite: Consent of instructor. Fall.

3350 COMPENSATION ADMINISTRATION An elective in the management major and minor. Course examines the design and administration of compensation systems. Considers general pay-level determinants, job evaluation, wage/salary surveys, monetary incentives, gain-sharing programs, fringe benefit and pension plans, government regulation of pay structures, and contemporary compensation issues. Lecture/discussion. Prerequisite: MGMT 3340 or MGMT 2341. On demand.

3351 CONTEMPORARY ISSUES IN HUMAN RESOURCE MANAGEMENT An elective in the management major and minor. Course analyzes issues of current importance to human resource managers. Focuses on methods used to maximize effectiveness and equity of human resource activities and identifies complementary policies and programs necessary for implementing such activities. Emphasizes linking of

human resource management to the strategic management of the organization. Uses lecture, discussion, and case analysis. Prerequisite: MGMT 3340 or MGMT 2341; and MGMT 3346. On Demand.

3352 PURCHASING AND MATERIALS MANAGEMENT An elective in the management and marketing majors and minors. Course examines the processes and problems involved in acquiring and controlling materials and services. Includes source selection, inventory management, competitive bids and negotiations, measuring purchasing performance, and uses of the Internet. Uses lecture and discussion supplemented by research on realistic procurement problems and on-site visits. Prerequisites: MGMT 3340 or MGMT 2341. On demand.

3382 INTERNSHIP IN MANAGEMENT An elective in the management major. Internships are available to provide students academic credit for experiential learning. Three credit hours will be granted for this course upon completion of a minimum of 120 contact hours at an approved CBA Student Internship. Prerequisite: Junior standing. On demand.

4315 EMPLOYEE BENEFITS (cross listed as INSU 4315) An elective course in the management major and minor, the course focuses on the study, design, and administration of group health, disability, life insurance, and retirement plans. Also includes a study of social security and other related programs for mitigating economic losses due to personal and business risk problems. The course also discusses profit-sharing, 401(k) plans, and flexible benefit plans. Primary modes of instruction are lectures, discussions, and case studies. Prerequisite: Junior Status. Fall.

4320 SELECTED TOPICS IN MANAGEMENT An elective course in the management major and minor. The class uses a lecture/discussion approach to examine topics not included in other management courses. Prerequisite: MGMT 3340 or MGMT 2341. On demand.

4341 QUANTITATIVE METHODS IN MANAGEMENT (cross-listed as QMTH 4341) A required course in the management major and an elective course in the management minor. This is the computer applications course required for all management majors and chosen by many general business majors. The course emphasizes an understanding of such quantitative aids to decision making as review of probability, linear programming, queuing theory, simulation techniques, network analysis, and Markov analysis. Lecture/discussion. Prerequisite: QMTH 2330. Fall, spring.

4347 MANAGING POLICY AND STRATEGY Designed as the capstone course in the business core, required of all students in the BBA program; should be taken during a student's final semester/term. Provides a review of the basic organizational functions and emphasizes the nature, development, and implementation of an organization's strategy. Uses lecture, discussion, case studies, and organizational simulations (computer simulation may be required) as means of developing decision-making and problem-solving skills. Prerequisites: FINA 3330; MGMT 3340, 3344; MKTG 3350. Fall, spring, summer.

4348 ADVANCED ORGANIZATIONAL BEHAVIOR A required course in the management major and an elective course in the management minor. This is the writing-intensive course required of all management majors. Students will study individual human behavior, group dynamics, and team building in an organizational environment. Also considers the impact of interpersonal relations on worker productivity and job satisfaction. Uses lecture, discussion, and case analysis. Prerequisite: MGMT 3340 or MGMT 2341. Fall, spring.

4382 INTERNSHIP IN MANAGEMENT An elective course for management majors. Internships are available to provide students academic credit for experiential learning. Three credit hours will be granted for this course upon completion of a minimum of 120 contact hours at an approved CBA Student Internship. Prerequisite: Senior standing. On demand.

4390 SPECIAL PROBLEMS IN MANAGEMENT An elective course in the management major and minor.



1470 is required for all MIS majors and minors as a foundation to programming. The goal5of MIS 1370 is to

Either MIS 1370 or CSCI

and practiced. This course assumes a working knowledge of COBOL. Prerequisites: MIS 1370 or CSCI 1470, and minimum of C in MIS 3301. Spring.

4329 DATABASE MANAGEMENT SYSTEMS This course is required for majors in the programmer/analyst track and an elective option for the other track majors and minors. The instructor assumes a basic knowledge of computer programming, systems analysis and design, and a general knowledge of computer systems and database management concepts. The course provides a review of database analysis, design, and implementation with emphasis on the relational database model. Concepts are applied using the ORACLE software package. The primary instruction method is lecture along with laboratory exercises and projects. Prerequisites: MIS 1370 or CSCI 1470, MIS 3328 or CSCI 3390, MIS 3365, and a knowledge of computer programming. Spring.

4339 PROGRAMMINGtem

[Instructional Technologies](#)

the implementation of teaching materials and strategies. Prerequisite(s): Courses previous to Internship I. Fall, spring.

4319 GUIDANCE AND BEHAVIOR MANAGEMENT This course is taken as part of Internship I. The course introduces candidates to the strategies, skills, and models for guiding and managing students. Lectures, discussions, demonstrations, and field experiences are central to the course, which will be conducted on the

preparation for specific occupations in vocational education service areas through discussion. On demand.

4325 APPLICATIONS OF COMPUTERS IN EDUCATION AND THE MARKETPLACE Synthesizes the role of the computer in the classroom through a comparison of existing computer hardware and software. Fall, Summer.

4340 INTERNSHIP I A required course for Senior Block I where candidates gain experience in supervised teaching, organizing instruction, and field experiences involving cooperative learning activities. Fall.

4359 METHODS OF VOCATIONAL BUSINESS AND MARKETING EDUCATION A requirement for business and marketing technology majors that provides instruction in the methods of teaching vocational business and marketing technology programs through discussion and micro-teaching. Prerequisite: Level I Teacher Education Admission. Fall.

4371 METHODS OF TEACHING BUSINESS AND MARKETING EDUCATION A requirement for the business and marketing technology majors that specifies the materials, methods, and evaluation of business and marketing technology subjects through discussion and micro-teaching. Prerequisite: Level I Teacher Education Admission. Fall.

4372 METHODS AND INSTRUCTIONAL MATERIALS IN VOCATIONAL EDUCATION An elective for the improvement of methods, materials, and techniques in vocational education with emphasis on behavioral objectives, group and self-instructional methods and materials, course outlines, and evaluation. Prerequisite: Admission to teacher education. On demand.

4375 STRATEGIES FOR COOPERATIVE EDUCATION AND APPRENTICESHIP PROGRAMS A requirement for marketing technology that discusses the principles and procedures for initiating and teaching cooperative vocational programs including the development of cooperative education and relationships with business, industry, and public institutions using lecture and discussion. Prerequisite: Admission to teacher education. On demand.

4376 VOCATIONAL LABORATORY ORGANIZATION AND MANAGEMENT An elective that extrapolates from research the design and implementation of facilities, laboratory instructional procedures, and activities used by teachers in developing a setting wherein students may become adaptable, productive, and

group activities, and field experiences are integral parts of the course, which will be taught both on the university campus and within the public school setting. Fall, Spring, Summer.

4411 INTERNSHIP I This course is part of the senior block for candidates in middle level education. Course involves field projects, field seminars, and supervised teaching where candidates gain knowledge of middle-school history and philosophy and gain experience in organizing instruction, in creating a productive learning environment, and in achieving professional behaviors. Prerequisites: Completion of Block I and II courses. Fall.

4612 INTERNSHIP II This course involves teaching under supervision in a public middle school (grades 4-8). Requires full-day involvement and seminars. Taken concurrently with 4613. Prerequisite: Completion of all designated professional education and specialty courses. Spring.

4613 INTERNSHIP II This course involves teaching under supervision in a public middle school (grades 4-8). Requires full-day involvement and seminars. Taken concurrently with 4612. Prerequisite: Completion of all designated professional education and specialty courses. Spring.

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Art

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[1] Courses in Art (ART) - Studio Art

1301 INTRODUCTION TO ART Non-major elective. Beginning studio work in two- and three-dimensional art. Recommended for the undeclared major as an introduction to creative studio experience. Studio. May not be credited toward a major or minor in art. On demand.

1310 DESIGN I, 2-D Foundation course for majors and minors. Fundamentals of two-dimensional design. Studio. Fall, spring, summer.

1321 DRAWING I Foundation course for majors and minors. Drawing techniques and media. Studio. Fall, spring, summer.

2140 PORTFOLIO ASSESSMENT I Area studies course for majors only. Sophomore Major Advancement Interview. Seminar. Graded on a CR/NC basis. Prerequisites: ART 1310, 1321, 2312, 2322, 3 hours from 2325, 2335, 2336. Fall.

2312 DESIGN II, 3-D Foundation course for majors and minors. Fundamentals of three-dimensional design. Studio. Fall, spring.

2322 DRAWING II, LIFE Foundation course for majors and minors. Studies of the figure in various media. Studio. Fall, spring.

3140 PORTFOLIO ASSESSMENT II Area studies course for majors only. Progress review and degree candidacy. Issues of health and safety in art and career development. Seminar. Graded on a CR/NC basis. Prerequisite: ART 2140. Spring.

3150 BFA FOLIO BFA degree majors only. Introduction to exhibiting work in the professional art field. Prerequisite: Acceptance to the BFA program. Seminar. Fall, spring.

3315 CONTEMPORARY MEDIA IN 3-D An elective in the art program designed for art majors and minors. Investigation and use of contemporary materials and concepts in the development of three-dimensional forms. Studio. Prerequisites: ART 2140, 3 hours 3000-level studio. Spring.

3318 PHOTOGRAPHY I Area studies course for majors and minors. Introduction to the use of the camera, darkroom, film, and processing. Prerequisites: ART 1310 and 3 hours drawing. Fall, spring.

3320 PHOTOGRAPHY II Major/minor course in an art degree program emphasis. Advanced technique with emphasis on photographic practice as an art medium. Studio. Prerequisite: ART 3318. Spring.

3324 DRAWING III, ADVANCED LIFE DRAWING Area studies course required of all art majors. An in-depth study of the figure with emphasis on expressive interpretations of the undraped form. Studio. Prerequisites: ART 1310, 1321 and 2322. Spring.

3325 COLOR An elective in the art program designed for art majors and minors. The physical, psychological, and design properties of color; emphasis on color in nature, with applications in art, science, and industry. Studio. Prerequisite: Junior or senior standing. Spring.

3330 ILLUSTRATION I Area studies course for majors and minors. Procedures, materials, and methods of illustration. Various media and conceptual approaches. Studio. Prerequisites: ART 1310 and 3 hours drawing. Fall.

3331 ILLUSTRATION II Major/minor course in an art degree program emphasis. Creation of images inspired by





the legal aspects of photojournalism, including libel, privacy, and copyright law. Students must provide an adjustable 35 mm or larger camera. Lecture/Production. Fall.

2310 FILM APPRECIATION General education curriculum option for the fine arts requirement. Promotes understanding and appreciation of the art of cinema through study of film style, film history, film genres, and the cultural impact of films. Examines both the theory and practice of filmmaking. Lectures, readings, screenings. Fall, spring.

2325 PRINCIPLES OF ONLINE JOURNALISM A required course for mass communication majors and minors with an emphasis in online journalism. Students in this course learn how to report and write for Internet news sites and other online media. Fall.

2340 BROADCAST JOURNALISM PRODUCTION I A required course for mass communication majors and minors with an emphasis in broadcast journalism. An introduction to the techniques of broadcast journalism production, terminology, and operation of digital video cameras, lenses, lighting, audio recording, and non-linear digital editing equipment; and an exploration of the relevant aesthetics and practices of broadcast journalism production. Spring.

3122, 3222, 3322 DIRECTED STUDY IN COMMUNICATION An elective course for theatre majors, digital filmmaking majors, and mass communication majors with an emphasis in broadcast journalism, online journalism, or print journalism. Involves concentrated study of a topic or topics to be determined by individual student need. May be repeated for credit. May be used for honors studies with the consent of the department chair. Prerequisite: Consent of the instructor. On demand.

3300 ADVANCED REPORTING AND EDITING A required course for mass communication majors with an emphasis in print journalism and an elective course for mass communication majors with an emphasis in broadcast journalism or online journalism. Continued development of reporting skills through the study of specialized beats, including city, county, and state government. Involves study of the organization and functions of state and local government. Students should be available for off-campus assignments. Prerequisite: MCOM 2300. Lecture/Production. Fall, spring.

3301 MEDIA LAW AND ETHICS A required course for mass communication majors with an emphasis in broadcast journalism, online journalism, or print journalism. Legal boundaries within which print and electronic professionals must operate and ethical issues in media careers. Prerequisite: MCOM 1300 or consent of instructor. Lecture. Fall Spring.

3302 MEDIA HISTORY An elective course for mass communication majors with an emphasis in broadcast journalism, online journalism, or print journalism. In-depth study of the development of American mass media. The treatments of major events in American history by the existing media will be discussed. The resultant effects on the media themselves will be analyzed. No prerequisite. Lecture. Spring.

3305 PUBLICATION DESIGN AND MAKEUP A required course for mass communication majors with an emphasis in print journalism and an elective course for majors with an emphasis in online journalism. Beginning course in using desktop publishing software and related hardware to achieve electronic pagination. Emphasis on newspaper, magazine, and brochure production. Prerequisite: MCOM 2300 or consent of instructor. Lecture/Production. Fall, spring.

3307 MEDIA THEORY AND RESEARCH An elective digital filmmaking majors and mass communication majors with an emphasis in broadcast journalism, online journalism, or print journalism. Theories concerning the effects of mass media and media-related research techniques, findings, and criticism. Prerequisite: MCOM 1300 or consent of instructor. Lecture. Spring.

3308 NEWS EDITING A required course for mass communication majors with an emphasis in broadcast

journalism, online journalism, or print journalism. Introduction of copy-editing techniques for newspaper and magazines. Shows the student the role, the work, and the responsibility of copy editors on newspaper and magazine staffs. This course covers the theory of copy editing, with supervised practices in editing copy and writing headlines. Lecture/Production. Prerequisite: MCOM 2300. Spring.

3311 DIGITAL IMAGING A required course for mass communication majors with an emphasis in online journalism and an elective for the broadcast journalism and print journalism emphases, the digital filmmaking program, and the mass communication minor. The course examines the use of current computer software for preparation, enhancement, and manipulation of photographs and for creating graphics for publication and illustration purposes in print, web, and broadcast media. Students will need a digital camera with at least four megapixels. Prerequisite: MCOM 2300 and 2305 or consent of instructor. Spring.

Prerequisite: MCOM 2366 and consent of instructor. Production. Fall, spring.

3391, 4391 TOPICS IN MASS COMMUNICATION An elective course for mass communication majors. Special topics in advanced issues in mass communication. Prerequisites: MCOM 1300 and 1362. On demand.

4313 WRITING FOR ELECTRONIC MEDIA An elective course for digital filmmaking majors and mass communication majors with an emphasis in broadcast journalism, online journalism, or print journalism. Seminar in writing creative material and commercial copy for electronic media. All types of continuity, news, and dramatic material will be included. Prerequisite: MCOM 1362. Lecture/Production. Spring, even years.

4315 BROADCAST JOURNALISM PRODUCTION III anastj8m0m re reChtsiel 6rerequisite: MCOM 133374r prnsent of instructor.



includes study of architecture, theatrical conventions, design styles, acting styles, dramatic literature, and noted theatrical artists. The course will also cover major arguments in dramatic theory Spring, even years

3332 STAGE LIGHTING A required or elective course for theatre majors. Stage lighting design and its role in theatre, film, and TV production is examined, including types of instruments, lamps, color media, control devices, and history. Laboratory work in UCA theatre productions is offered. Prerequisite: THEA 2325 or consent of instructor. Spring, even years.

3391 ACTING II An elective course for theatre majors. Conventions and techniques of various periods and styles of acting. Prerequisite: THEA 2390 or consent of instructor. Fall.

3392 ETHNIC LITERATURE INTERPRETATION An elective course for theatre majors. Research and performance of literature from various ethnic groups using oral interpretation to suggest intellectual, emotional and sensory experiences inherent in the literature. On demand.

4315 TOPICS IN THEATRE PERFORMANCE An elective course for theatre majors. In-depth studies in selected theories and methods of performance such as musical theatre, Elizabethan theatre, children's theatre, and experimental theatre. May be repeated for credit up to 6 hours. Content changes on demand. See semester schedules for description of content. Prerequisite: THEA 1350 and 2390. On demand.

4320 PLAY DIRECTING A required course for theatre majors. Selection, casting, and rehearsal of plays. Students will be required to direct one-act plays. Prerequisite: THEA 2390 or consent of instructor. Spring.

4321 TOPICS IN TECHNICAL THEATRE An elective course for theatre majors. In-depth studies in selected theory and practice of technical theatre such as sound reinforcement and design, advanced make-up design, costume design, and scenic painting and decoration. May be repeated up to 6 hours. Content changes on demand. See semester schedules for description of content. Prerequisite: THEA 1350 and 2331. On demand.

4322 THEATRE WORKSHOP An elective course for theatre majors. Advanced training in directorial methods and organization, performance techniques, and experimental theatre practices. Summer only.

4340 SCENE DESIGN A required or elective course for theatre majors. Theories and styles of scenic design and their application to the individual play. Prerequisite: THEA 2331 or consent of instructor. Spring, odd years.

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Music

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[1] Courses in Music (MUS) - Theory

1230 HARMONY I Core requirement for all music majors and minors. Taken concurrently with Ear Training I. Fundamentals of music, major and minor scales, modes, key signatures, intervals, triads, melodic and harmonic analysis. Part-writing using root position and first inversion triads, and related keyboard assignments. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: MUS 1300 Fundamentals of Music or scoring a passing grade on the fundamentals of music entrance examination. To be taken concurrently with MUS 1231. Fall.

1231 EAR TRAINING I Core requirement of all music majors and minors. Taken concurrently with Harmony I. Enhances overall musicianship through improvement of ear training skills such as rhythmic reading, sight singing, melodic and harmonic dictation. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: Scoring a passing grade on the fundamentals of music entrance examination. To be taken concurrently with MUS 1230. Fall.

1232 HARMONY II Core requirement of all music majors and minors. Continuation of Harmony I. Taken concurrently with Ear Training II. Seventh chords, non-chord tones, secondary dominants and secondary leading tone seventh chords, modulations, and small forms. Part-writing using second inversion triads and seventh chords and related analysis, keyboard harmony, and composition. Methods of instruction include lecture, discussion, and laboratory. To be taken concurrently with MUS 1233. Prerequisites: MUS 1230 and 1231. Spring.

1233 EAR TRAINING II Core requirement of all music majors and minors. Continuation of Ear Training I. Taken concurrently with Harmony II. Enhances overall musicianship through improvement of ear training skills such as rhythmic reading, sight singing, melodic and harmonic dictation. Methods of instruction include lecture, discussion, and laboratory. Prerequisites: MUS 1230, 1231. To be taken concurrently with MUS 1232. Spring.

1300 FUNDAMENTALS OF MUSIC THEORY Prerequisite for Theory I and Ear Training I for music majors without a strong music background. Recommended as an elective for non-majors who are interested in learning about the rudiments of music. Music fundamentals including notation, keys, scales, intervals, meter, rhythm, melody, and harmony in preparation for MUS 1230 (Harmony I). Methods of instruction are lecture and working theoretical exercises using the computer. Minimal computer skills will be helpful. Credit earned in this course is in addition to that earned in required theory courses. Fall, spring, summer.

2210 INTRODUCTION TO MUSIC TECHNOLOGY Requirement of all music education majors. Elective for music performance majors as enrollment allows. An introduction to music computer technology and related multi-media technology, including a survey of computer hardware and software appropriate for computer-assisted instruction in the private studio and classroom. Methods of instruction include lecture, discussion, workshop, and laboratory. Prerequisites: MUS 1230, 1232. Fall, spring.

2430 THEORY III Core requirement of all music majors. Continuation of Harmony II and Ear Training II. Borrowed chords, Neapolitan triads, augmented sixth chords, chromatic mediants, sonata and rondo forms. Ear training, sight-singing, keyboard harmony, and composition projects are correlated with written work. Methods of instruction include lecture, discussion, and laboratory. Prerequisites: MUS 1232, 1233. Fall.

2431 THEORY IV Core requirement of all music majors. Continuation of Theory III. Ninth, eleventh, and thirteenth chords and advanced modulation. Analysis of small and large forms of the Baroque, Classical, and Romantic periods. Ear training, sight-singing, keyboard harmony, and composition projects are correlated with written work. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: MUS 2430. Spring.

3210 COUNTERPOINT I Upper-division elective for music majors. A study of the principles of strict contrapuntal writing in two, three, and four voices as composed in the sixteenth and eighteenth centuries. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: MUS 2431. Fall.

3230 FORM AND ANALYSIS Upper-division elective for music majors. Examination of representative twentieth-century analytical and compositional techniques, including set theory, 12-tone theory, poly-harmony, linear counterpoint, multi-rhythms, and aleatoric devices. Methods of instruction include lecture and discussion. Prerequisite: MUS 2430. Spring.

3233 COMPOSITION Required of all performance majors. Composing music for instrumental and vocal

media, working from smaller to larger forms, and focusing on twentieth century styles and materials. Methods of instruction are lecture and music composition. Prerequisite: MUS 3210. Spring.

4210 INSTRUMENTAL ARRANGING Required of instrumental performance majors and may be chosen as an optional requirement for instrumental music education majors. Study of band and orchestra instruments in regard to ranges and standard orchestration techniques from the baroque to present. Course is taught in lecture/discussion format. Prerequisite: All previous theory courses. Fall.

4215 CHORAL ARRANGING Required of vocal performance majors and may be chosen as an optional requirement for vocal music education majors and piano performance majors. Arranging music for choirs, which may be sung a cappella or accompanied with adolescent through adult voices. Methods of teaching are lecture, discussion, and laboratory. After instruction, students write exercises and full choral arrangements using Finale, a music engraving program for either Macintosh or PC. Prerequisite: All previous theory courses, MUS 2210 Introduction to Music Technology and previous choral experience. Spring.

[2] Courses in Music (MUS) - History and Literature

1340 INTRODUCTION TO MUSIC LITERATURE Core curriculum requirement of all music majors and minors. Introductory course in music history and literature. Through lectures and aural examples, basic knowledge of styles and periods of music is stressed along with listening techniques and the development of a framework upon which the student may later base a more detailed study of the subject matter. Maybe a substitute for the Fine Arts General Education requirement. Spring.

2300 MUSIC APPRECIATION General education curriculum option for the fine arts requirement. Introduces students to music, its origin and development through recorded and live instrumental and vocal music. Relates to other arts, cultures, literature, and the social sciences. Methods of instruction are lecture and listening to music. Fall, spring, summer.

3300 CHURCH MUSIC Upper-division elective for music majors. History of Western church music from earliest times to the present and application of this heritage to church music of today. Methods of instruction are lecture and listening to music. Prerequisite: Consent of instructor. On demand.

3302 MUSIC HISTORY I Core curriculum requirement for all music majors. History of Western art music from antiquity to 1750. Methods of instruction are lecture and listening to music. Prerequisite: MUS 1340. Fall.

3303 MUSIC HISTORY II Core curriculum requirement for all music majors. History of Western art music from 1750 to the present. Methods of instruction are lecture and listening to music. Prerequisite: MUS 3302. Spring.

3345 AMERICAN MUSIC: A PANORAMA American Music is a survey course of music in the United States rooted in folk and popular styles. It is designed for both music majors and non-majors. The purposes of the course are to develop musical perception and to provide a better understanding of the role of music in American culture. It is particularly suitable for non-majors seeking upper division credit and also serves as an upper division elective for the BA in music or the BM in performance. Prerequisite: None. Spring.

4203 PIANO LITERATURE Required for BM piano performance majors and BM education majors with a piano emphasis. Suitable for BA music majors with piano as applied major, with consent of instructor. Covers keyboard works from the late Baroque period through the twenty-first century including works composed for harpsichord and clavichord. Methods of instruction are lecture and CD listening. Spring.

4205 VOCAL LITERATURE Required for BM performance voice majors and optional for other voice or piano majors. Solo vocal literature from the Renaissance to the present. Emphasis on style, interpretation,

junior-level applied study, theory and history. Fall, spring.

[5] Courses in Music (MUS) - Applied Classes (group instruction)

1131-1132 PIANO CLASS I AND II Remedial classes for music majors which do not count toward music degrees. These courses cover functional skills such as sight reading, harmonization, improvisation, technique, basic knowledge of harmonic materials (chords, scales, arpeggios, cadences), and repertoire. These classes are conducted as laboratories. No prerequisite for MUS 1131. Non-majors require consent of instructor. Fall, spring.

2133-2134 PIANO CLASS III AND IV Music majors only. The normal entry level for adequately prepared music majors. Emphasis is given to basic keyboard repertory that demonstrates contrasting styles and textures from various periods. Piano Class IV culminates the work in preparation for proficiency at the keyboard demanded for BM education teaching requirements. Successful completion of Piano Class IV with a grade of C or higher represents fulfillment of the piano proficiency requirements. Fall, spring.

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Music

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Presents concerts each semester. A wide range of repertoire is explored, including transcriptions and original compositions from the Renaissance to the twentieth century. Emphasis is placed on the lyrical aspects of brass performance. Prerequisite: Approval of instructor. Fall, spring.

2104, 4104 JAZZ ENSEMBLE A select ensemble of performers available to BM scholarship students as a small ensemble requirement. Open to all students as a small ensemble elective via auditions during the first week of classes. Music in varied jazz styles will be rehearsed and performed during the semester. Fall, spring.

2107, 4107 DIXIELAND BAND A select ensemble of performers available to BM scholarship students as a small ensemble requirement. Open to all students as a small ensemble elective via auditions during the first week of classes. Music in varied jazz styles will be rehearsed and performed during the semester. Fall, spring.

2105, 4105 WOODWIND CHAMBER*

2106, 4106 BRASS CHAMBER*

2121, 4121 STRING CHAMBER*

2130, 4130 PERCUSSION/STEEL BAND CHAMBER*

2141, 4141 PIANO CHAMBER*

*Small ensemble requirement for all music scholarship students beyond their first semester of study. Available by audition to other BM performance majors as an elective. Introduces students to repertoire of small keyboard, vocal, and instrumental ensembles, along with ensemble playing, interpretation, rehearsing, and coaching techniques. Selected chamber music, appropriate to performance levels of participants, is used. Small groups will rehearse two hours per week before coaching with the instructor. Prerequisite: Consent of the instructor. Fall, spring.

2120, 4120 UNIVERSITY SYMPHONY Large ensemble requirement for all BM string majors and minors. Also open as a large ensemble elective for other string, woodwind, brass, and percussion players who qualify by audition. Rehearses five hours per week. Specific rehearsal schedule is rotated with the Conway Symphony Orchestra. Fall, spring.

2140, 4140 ACCOMPANYING Small ensemble requirement for all BM performance keyboard majors and BM education piano emphasis majors who are on scholarship. Open as a small ensemble elective to all other keyboard students with the consent of the professor. Three hours per week of studio accompanying. Fall, spring.

2112, 4112 OPERA Small ensemble requirement for all BM performance vocal majors on scholarship. Available as a small ensemble elective to all other vocal students, majors and non-majors. Introduces students to the media of opera by preparing a complete opera or several opera scenes. Teaches students how to prepare a musical role from both the musical and acting perspectives. Aids in the development of stage techniques that a student can use both as a performer and as a music educator. Taught as a workshop culminating in a public production with orchestra when possible. Prerequisite: Discretion of the professor and the voice teacher of the student. Fall, spring.

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Writing and Speech

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[1] Courses in Public Relations (PRLS)

2305 INTRODUCTION TO PUBLIC RELATIONS An introduction to the principles and practices necessary for professionals in the public relations field. This is a basic course that addresses theoretical bases, historical and social contexts, as well as current policy and legal and ethical considerations. Fall, spring.

3305 PUBLIC RELATIONS TECHNIQUES A study of the channels of communication available to the public relations practitioner and of ways to use those channels effectively. The course covers traditional print and electronic media as well as new media. Use of direct mail, exhibits, annual reports, news conferences, advocacy advertising, and presentations as elements of the public relations program will be addressed. Fall.

3310 WRITING FOR PUBLIC RELATIONS Written aspects of public relations, including press releases, leaflets, newsletters, and magazines. Basic concepts and practices for public relations practitioners and functions of public relations. Prerequisite: consent of instructor. Fall, spring.

4305 PUBLIC RELATIONS CASES AND CAMPAIGNS Using the case study method, this course offers students an opportunity to work through the major categories of public relations problems and opportunities. In this course, students integrate theory, concepts, and techniques within complete communication programs. Fall.

4308 PUBLIC RELATIONS MANAGEMENT A study of the management components needed in a public relations program. Topics to be covered include mission statement, goals and objectives, crisis planning and issues management, as well as communication planning, budgeting and evaluation. Role of the PR practitioner, cooperation with another organization in a PR program, and executive reports are also addressed. Spring.

studies. Various topics offered on a rotating basis to cover important communication topics not part of the regular course offerings. Prerequisite: SPCH 1300. On demand.

4325 HEALTH COMMUNICATION This course provides a broad introduction to human communication in a health-care context. Issues such as provider-client communication, provider-provider communication and education, intercultural health communication, alternative medicine, health ethics, and mass media health images will be explored. Every other academic year.

4330 FAMILY COMMUNICATION This course introduces students to communication phenomena in the setting of the family. The overall goal is to help students understand how, through communication, we develop, maintain, enhance, or disturb family relationships. Verbal and nonverbal skills which can help promote healthy family communication will be emphasized. Prerequisite: SPCH 2308 or consent of instructor. Every other academic year.

4334 POLITICAL COMMUNICATION This course sharpens students' critical skills in analyzing political discourse. Course content focuses on communication related to the American political system, with specific attention paid to the period from the start of a political campaign through an election. Using a variety of methods, students will examine the communicative behavior of politicians, candidates, and strategists as they engage various constituencies, opponents, and the media. Prerequisite: SPCH 2308 or consent of instructor. Every other academic year.

4336 ADVANCED COMMUNICATION THEORY A course in which the main concepts, approaches, and issues tied to the study of human communication are analyzed, debated, and evaluated. Prerequisite: SPCH 2308 or consent of instructor. Every academic year.

4380 DIRECTED STUDY IN COMMUNICATION Provides opportunities for advanced study of specific topics in communication. It is designed for students who have completed basic and intermediate courses and who want to study specific topics that are not offered in the curriculum. Directed Study is especially useful to students who plan to go on to graduate study in communication and to students seeking professional careers in communication. Fall, spring, summer.

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Writing and Speech

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[1] Courses in Writing (WRTG)

1310 INTRODUCTION TO COLLEGE WRITING Part of the general education program and required of all students during the first semester they are eligible to enroll. This course introduces students to the writing process, focusing on audience, invention, and arrangement, and will be conducted as a workshop. Prerequisite: ACT score of 19 or higher or completion of UNIV 1300 with a grade of C or higher or 00pa worksho,x pCT score ear. stourses 4380 e wTD(iluated. Prerequisite: SPCH)TJT*(2308 or cons2308 orimhealth)09422cours0.

Prerequisites: WRTG 1310, 1320, and 2310. Fall.

3325 FORMS OF POETRY Comprehensive examination of the formal elements of the literary art of writing poetry, with an emphasis on the study of prosody, traditional and contemporary poetics, contemporary poetic theory, poetic craft, and other technical aspects of the art. The course is taught as a workshop. Prerequisites: WRTG 1310, 1320, and 2310. Fall.

3330 FORMS OF NONFICTION This course will provide an in-depth consideration and practice of one of the many forms of creative nonfiction writing, including but not limited to memoir, the review essay, travel writing, the literary essay, literary journalism, social and political writing, sports writing, and nature writing. Subjects will be determined by instructor interest and expertise.

3335 FORMS OF FICTION This course will provide an in-depth consideration and practice of one of the many forms of fiction writing, including but not limited to the novel, short-short fiction, magical realism, mystery writing, science fiction, and metafiction. Subjects will be determined by instructor interest and expertise.

3340 TEACHING WRITING IN THE MID-LEVEL GRADES Designed for the mid-level teacher education candidate, this course introduces basic theories behind the teaching of writing and addresses the literacy benchmarks established for mid-level grades. Students will learn strategies for teaching the writing process. Prerequisite: 1320. Fall.

4305 CONTEMPORARY COMPOSITION: THEORY AND APPLICATION An upper-division elective for writing majors and minors and students interested in teaching writing. This course examines composition theory and pedagogy through both readings and direct observation of composition classrooms. The first half of the course concentrates on the history of contemporary composition theory and the key issues fundamental to the development of the disciplines. The second half of the course concentrates on how these theories are applied in today's composition classroom. Students will analyze the composition teaching they observe and relate it to theories discussed. Prerequisite: WRTG 1320. Spring.

4315 SEMANTICS An upper-division elective for writing majors and minors and for speech and mass communications majors and minors. This course examines meaning in language--how we know what words and sentences mean. At the word level, students will examine such ideas as sense, connotation and extension. At the sentence level, students will examine propositions, truth conditions, scope, entailment and implicature. Metaphor, representation, speech acts and conversation will also be discussed. Discussion, lecture, essays, project. Prerequisite: WRTG 1320. Fall.

4320 SEMINAR IN RHETORIC AND CROSS CULTURAL COMMUNICATION Elective for writing majors and minors and other students interested in persuasion. Provides students with an understanding of the impact of rhetorical traditions on written and oral communications in non-Western cultures. Prerequisite: WRTG 1320. Fall.

4324 TOPICS IN CREATIVE WRITING This course will provide students a more concentrated focus on specific areas, sub-genres, trends, schools, and developments in the creative writing discipline. The topics will vary according to instructor interest and expertise. Prerequisite: WRTG 2310 and WRTG 3300. Fall, spring.

4325 SOCIOLINGUISTICS An upper-division elective course for writing majors and minors and for anthropological sociology majors and minors. This course examines the connections between language and society and language and culture, including such factors as region, gender, age, race, sexual orientation, and social standing; language varieties, registers and speech communities. Discussion, lecture, short essays and a student project. Prerequisite: WRTG 1320. Fall.

variety of physical activities. Students with disabilities limiting their participation should contact the Office of Disability Support Services and enroll in KPED 1191 and H ED 2200 under the guidance of their advisor. To earn a passing grade for this course, students must earn a passing grade in both the health and fitness sections. Fall, spring, summer.

2200 PERSONAL HEALTH Elective course emphasizes the impact daily behavioral choices have on prevention of chronic/communicable diseases. Lecture/discussion, interactive video, projects. Fall, spring.

2201 FIRST AID Required for BS in health sciences, emphasis in health services administration. CPR, accredited by American Heart Association, is required for specific majors in the College of Health and Behavioral Sciences. Students acquire basic first aid skills. Lecture/discussion, interactive video, skill demonstration, practice, and testing. Fall, spring, summer, intersession.

2310 INTRODUCTION TO GERONTOLOGY Required for BS in health sciences, emphasis in gerontology. Multidisciplinary introduction to study of human aging. Lecture/discussion. Fall.

2320 MENTAL HEALTH Elective. Skills and principles of mental health applied to everyday living. Lecture/discussion, projects. Fall, spring.

3120 PREVENTION PRACTICUM Required for students earning a BS in health education, emphasis in prevention. Provides practical experiences in a prevention resource center under supervision of a certified prevention specialist. Observation, workshops. Fall.

3300 METHODS AND MATERIALS Core course for BS in health education. Techniques, resources, and references used in health education programs. Lecture/discussion, projects. Prerequisite: H ED 1320 or 2200. Fall, spring.

3301 THEORETICAL BASES OF HEALTH EDUCATION Core course for BS in health education. Principles and foundations of selected disciplines that contribute to health education. Lecture/discussion. Prerequisite H ED 1320 or 2200. Fall, spring.

3302 THE ELEMENTARY SCHOOL HEALTH PROGRAM Elective. Preparation of elementary teachers and/or school health coordinators for appropriate roles in the school health program. Lecture/discussion, projects. Prerequisite H ED 1320 or 2200. On demand.

3305 HUMAN SEXUALITY Elective. Physical, psychological, and social factors involved in human sexual behavior. Lecture/discussion. Prerequisite H ED 1320 or 2200. Fall, spring.

3310 FUNDAMENTALS OF OCCUPATIONAL HEALTH Elective. Recognition, evaluation, and control of variables affecting environmental health in the workplace. Lecture/discussion. Prerequisite: Junior standing or consent of instructor. On demand.

3315 THEORY AND PRACTICE OF PREVENTION Core for BS in health education, emphasis in prevention and BS in health sciences, emphasis in health services administration. Develops competencies in theory/practice of prevention. Lecture/discussion, projects. Fall.

3320 EPIDEMIOLOGICAL RESEARCH Core for BS in health education. Special emphasis on application of basic concepts and principles of epidemiology and research. Lecture/discussion, projects. Fall, spring.

4300 COMMUNITY HEALTH Core for BS in health education. Resources and programs designed to meet community health needs. Lecture/discussion, projects. Spring.

4301 HEALTH EDUCATION IN THE MEDICAL CARE SETTING Core for BS health sciences, emphasis in health services administration. Application of principles and theories of individual and group education in a

medical care setting. Lecture/discussion, projects. Spring.

4302 HEALTH EDUCATION IN THE WORKSITE Elective. Planning, implementing, and evaluating health promotion programs in the worksite. Lecture/discussion, projects. Spring.

4303 ENVIRONMENTAL HEALTH PROBLEMS Elective. Environmental health issues that influence human health. Lecture/discussion, projects. Fall

4310 HEALTH CONCERNS OF THE AGING Elective. Physiological, psychological, intellectual, social and spiritual dimensions of health for the aging are addressed. Spring

4312 DRUG EDUCATION Elective. An overview of the major drugs of use and abuse and their effects on the individual, family, and society. Emphasis on research based approaches in drug abuse prevention. Lecture discussion projects. Fall, spring, summer.

4320 HEALTH PROMOTION INTERVENTIONS Designed to provide health science students with a comprehensive overview of community-based health promotion interventions. Special emphasis will be placed on preparing students to use communication and social marketing strategies in the public health setting. The course seeks to enhance students' knowledge and skills in the fundamental aspects of environmental rather than individual behavior change strategies.

4331 PROGRAM PLANNING AND EVALUATION Core for BS in health education. Theories and models are applied in diagnosis, planning, implementation, and evaluation of health education programs. Lecture/discussion, projects. Fall, (summer on demand).

4343 HEALTH STRATEGIES FOR MULTICULTURAL POPULATIONS Required for selected majors in College of Health and Behavioral Sciences. Acquaints students with parameters of various ethnic groups, integrates health programs into ethnic environments, and promotes the application of research skills in selected populations. Lecture/discussion. Cross listed with SOC 4343. Students will receive credit for only one of the courses. Spring.

4350 HEALTH EDUCATION TECHNIQUES IN THE ELEMENTARY SCHOOL Elective. Provides the elementary teacher with skills and techniques for teaching health education. Lecture/discussion, projects. On demand.

4351 HEALTH EDUCATION TECHNIQUES IN THE MIDDLE SCHOOL Elective. Provides the middle school teacher with skills and techniques for teaching health education. Lecture/discussion, projects. On demand.

4352 HEALTH EDUCATION TECHNIQUES IN THE JUNIOR HIGH SCHOOL Elective. Provides the junior high school teacher with skills and techniques for teaching health education. Lecture/discussion, projects. On demand.

4361 DRIVER EDUCATION Elective. Prepares high school teachers in driver education and training. Lecture/discussion, interactive video. Fall.

4362 ADVANCED DRIVER EDUCATION Elective. Prepares high school teachers in driver education and training. Lecture/discussion, interactive video. Prerequisite: H ED 4361. Spring.

4365 FIELD EXPERIENCES IN HEALTH EDUCATION Elective. Students apply theory to practice in health

spring.

4390, 4290, 4190 DIRECTED INDEPENDENT STUDY Elective. Faculty directed student research activities.

4395 CONTEMPORARY HEALTH CONCERNS: WOMEN -2ce and compet-2ce. Social, psychological, political, and economic factors that influence the health of women. Includes: reproductive health, pregnancy, childbirth, and family planning. Prerequisite: INDEPENDENT STUDY 4390.





and track and field. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Spring.

2227 TEACHING FOLK DANCE A required course for kinesiology and physical education majors. Course is presented in two halves. The course emphasizes the history and fundamental techniques of folk dancing from various cultures as well as instruction and practice in the techniques of teaching dance in educational, commercial, and recreational settings. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

2228 TEACHING SQUARE DANCE An elective course for kinesiology and physical education majors. This course emphasizes the history, skills, and techniques of square dancing and the techniques of calling square dance as well as instruction and practice in the techniques of teaching square dance in educational, commercial, and recreational settings. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

2229 TEACHING BALLROOM DANCE An elective course for kinesiology and physical education majors. This course covers the courtesies, techniques, and styles involved in ballroom dance as well as instruction and practice in the techniques of teaching ballroom dance in educational, commercial, and recreational settings. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

2250 INTRODUCTION TO DANCE AND RHYTHMICAL ACTIVITIES A required course for kinesiology and physical education majors. This course provides students with a basic knowledge of several dance genres and rhythmic activities as well as instruction and practice in the techniques of teaching dance in educational, commercial, and recreational settings. Lecture, activity, cooperative learning, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Fall.

2300 PHYSIOLOGY OF EXERCISE A corequisite course for kinesiology and physical education majors. This course provides a comprehensive overview of the physiological responses to exercise. Topics include energy systems, cardiovascular, respiratory, and muscular systems. Lecture, activity, cooperative learning, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Fall.

consent of instructor. On demand.

3240 SECONDARY SCHOOL ATHLETIC PROGRAMS An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course provides fundamental knowledge of the leadership and management skills necessary for the administration of secondary school athletics. Lecture, discussion, guest speakers, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

3301 ATHLETIC TRAINING CLINICAL EXPERIENCES I A required course for athletic training majors, this course provides students with knowledge of the care, treatment and rehabilitation of injuries occurring to the lower extremities. Athletic training students will assess and recognize acute, as well as, overuse conditions in the lower extremity. Students will be introduced to and practice many contemporary assessment, treatment and rehabilitation techniques used in caring for physically active patients. Lecture, discussion, laboratory, and required field study experiences. Prerequisites: KPED 2353 with a grade of B or better. Pre- or co-requisite: KPED 3382 with a grade of C or better. Fall.

3315 SPORTS OFFICIATING An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course examines the basic elements of sports officiating including interpretations of rules and regulations and provides students with opportunities to fulfill the role of officials in a variety of sports. Lecture, activity, simulations, and a required 15-hour officiating practicum scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

3316 CURRICULUM A required course for kinesiology and physical education majors. This course is designed to familiarize students with basic curricular theories, models, trends, and issues and the relationship between curriculum and instructional strategies. Lecture, discussion, student presentations, professional portfolios, use of e-mail and internet, and required field experiences. Prerequisites: Admission to PETE or KPED programs; junior classification; and major status or consent of instructor. Spring.

3320 DEVELOPMENTALLY APPROPRIATE MOTOR SKILLS AND FITNESS ACTIVITIES FOR P-4 LEARNERS A required course for P-4 childhood education majors and taken as part of the academic content block during the junior year. The course emphasizes the development of skills, knowledge, disposition and strategies in activities appropriate for P-4 elementary physical education programs. Lecture, cooperative learning, peer micro teaches, and a required field experience including observation, participation and teaching in elementary physical education under the direct supervision of an elementary physical education specialist. Prerequisites: Admission to teacher education; KPED 1320, ECSE 3400, and EDUC 3309. On demand.

3327 ATHLETIC TRAINING CLINICAL EXPERIENCES II A required course for athletic training majors, this course provides students with knowledge of the care, treatment and rehabilitation of injuries occurring to the upper extremities. Athletic training students will assess and recognize acute, as well as, overuse conditions in the upper extremity. Students will practice many contemporary assessment, treatment and rehabilitation techniques used in caring for physically active patients. Lecture, discussion, laboratory, and required field study experiences. Prerequisite: KPED 3301 with a grade of B or better, KPED 3354 with a C or better. Spring.

3330 PHYSICAL EDUCATION FOR ELEMENTARY GRADES A required course for kinesiology and physical education majors. This course helps students develop their knowledge and understanding of the planning, organization, and instructional styles included in physical education at the early childhood and elementary school level. Lecture, cooperative learning, peer micro teaches, and a required 15-hour field experience including observation, participation, and teaching in elementary physical education under the direct supervision of an elementary physical education specialist. Field experience is scheduled outside of class meeting times. Prerequisites: Admission to PETE or KPED program, junior classification; and major status or consent of instructor. Co-requisite KPED 2340. Fall.

3331 CARE AND PREVENTION OF EXERCISE AND SPORT INJURIES A required for kinesiology and physical education majors and students seeking a coaching endorsement. This course introduces students to the broad discipline of caring for exercise and sports injuries. Key topics of study include anatomy, evaluation, treatment, rehabilitation techniques, emergency procedures and liability issues in athletics and activity. Lecture, discussion, and laboratory. Laboratory sessions will introduce various wrapping and strapping techniques in addition to basic rehabilitation procedures. Prerequisite: KPED 2381 or BIO 2405 or 2406 with a grade of C or better. On demand.

3335 THERAPEUTIC EXERCISE A required course for athletic training majors, this course is designed for students to learn contemporary knowledge and skill in the rehabilitation of athletes and the physically active. Students learn the indications, contraindications, and physiological effects of resistance methods prescribed in therapeutic and injury preventive exercise. Primary methods of instruction include lecture, discussion, a research project and required hands-on laboratory experiences. Prerequisites: KPED 1125 and KPED 1135 with a grade of C or better and KPED 2353 with a grade of B or better. Fall.

3345 THERAPEUTIC MODALITIES A required course for athletic training majors, this course is designed for athletic training students to learn contemporary knowledge and skill in the application of therapeutic modalities for athletic injuries. Students will explore the concepts of how thermal, electrical, and mechanical agents affect the stages of wound healing. Students will establish a sound rationale for selecting modality protocols that are appropriate for the treatment of a variety of athletic injuries. Lecture, discussion, case-study presentations, and required hands-on laboratory experiences. Prerequisites: BIOL 2405 or 2406 and KPED 3335 with a grade of C or better. Spring.

3351 EVALUATION TECHNIQUES FOR LOWER EXTREMITY A required course for athletic training majors, this course provides students with an understanding of the relationship of injuries to various lower extremity anatomical structures and the injuries affect on normal musculoskeletal function. Students will learn a systematic method of assessment, learning various techniques that ensure thorough injury assessment. Lecture, discussion, and required laboratory experiences. Prerequisite: Admission to the athletic training education program. Spring.

3354 EVALUATION TECHNIQUES FOR UPPER EXTREMITY A required course for athletic training majors, this course provides students with an understanding of the relationship of injuries to various upper extremity anatomical structures and the injuries affect on normal musculoskeletal function. Students will learn a systematic method of assessment, learning various techniques that ensure thorough injury assessment. Lecture, discussion, and required laboratory experiences. Prerequisite: KPED 3351 with a C or better. Fall.

3363 ADAPTED PHYSICAL EDUCATION A required course for kinesiology and physical education majors. This course provides basic information on disabling conditions and how to provide adapted physical education programs based upon an individual's assessed needs. Lecture, discussion, and a required 10-hour clinical and field experience scheduled outside of class meeting times. Prerequisites: Admission to PETE or KPED program. Fall, summer.

3382 MECHANICAL KINESIOLOGY A core course required of kinesiology and physical education majors and athletic training majors. This course is designed to develop students' understanding of the mechanical principles that govern the effectiveness with which physical education, fitness, and sport skills are performed. Lecture, discussion, and individual research projects. Prerequisites: PHYS 1400 or CHEM 1402 or 1450 with a grade of C or higher. Fall, summer.

4230 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION A core course required of kinesiology and physical education majors and athletic training majors. This course focuses on the foundations, theories, principles, and measurement of physical fitness and in particular the means for conducting fitness testing and providing exercise prescriptions. Students will learn how to screen subjects, assess physical fitness

levels, and prescribe appropriate exercise training based upon an individual's goals and assessed needs. Lecture, activity, simulations, and required field experiences. Prerequisites: KPED 4300 major status or consent of instructor. Fall, spring, summer.

4300 EXERCISE PHYSIOLOGY A core course required of kinesiology and physical education majors, and athletic training majors and an elective for students with an allied health career interest. This course emphasizes the study of muscular activity and the associated energy systems, the general effects of exercise on physiologic processes and body functions, and the adaptations that occur as a result of physical exercise training. Lecture, laboratories, specialized computer software and a research project. Prerequisites: KPED 2381 or BIOL 2405 or BIOL 2406 or consent of instructor. Fall, spring, summer.

4301 ATHLETIC TRAINING CLINICAL EXPERIENCES III A required course for athletic training majors, this course is designed for athletic training students to learn about and experience how to care for and prevent the injuries that occur in equipment intensive sports. Athletic training students will attain knowledge and skill regarding a variety of injuries (e.g., brain injuries, fractures, dislocations, wound management, and emergency on-the-field evaluation of spine injuries). Students will learn the principles regarding protective equipment, including standards for design, construction, maintenance, and reconditioning of protective sports equipment, bracing and protective pad fabrication. Lecture, discussion, laboratory, and required field study experiences. Prerequisite: KPED 3327 with a grade of B or better and KPED 4325 with a C or better. Fall.

4310 METHODS AND MATERIALS OF SECONDARY PHYSICAL EDUCATION A required course for kinesiology and physical education majors. The application of instructional methods including writing and implementing instructional objectives, performing task analysis, designing and implementing lesson plans, and microteaching. Lecture, cooperative learning, physical activities, unit planning, and peer micro teaches. Clinical and field experiences will be required. Prerequisites: Admission to PETE or KPED program and KPED 2340 and 3316, Co-requisite KPED 4380. Fall.

4315 PROGRAM DEVELOPMENT IN ATHLETIC TRAINING A required course for athletic training majors taken during the final semester of enrollment. Students will explore current trends and issues in the profession of athletic training. Students will develop methods for educating others about the profession and disseminating information about injury/illness prevention. Students will gain knowledge regarding the academic preparation, credentialing (certification and licensure) and continuing education needed for the legal and ethical practice of athletic training. Primary methods of instruction include lecture, discussion, and student presentations. Computer applications used in this course. Prerequisite: KPED 4301 with a B or better, KPED 4330 with a C or better. Co-requisite KPED 4327. Spring.

4320 MEASUREMENT AND EVALUATION IN HUMAN PERFORMANCE A required core course for kinesiology and physical education majors and athletic training majors. This course focuses on the analysis of theoretical and practical issues involved in evaluation of motor performance, behavior and knowledge. Interpretation of research with an emphasis on statistical techniques is included. Lecture, discussion, laboratory experiences, and use of statistical analysis software. Prerequisites: admission to PETE, KPED or ATE program; junior or senior classification; and major status or consent of instructor. Spring.

4325 HEAD, NECK, AND SPINE INJURY MANAGEMENT A required course for athletic training majors, this course is designed to provide students with an ability to perform a systematic method of evaluation of injuries to the head, neck, thoracic region, and spine. Students will conduct clinical evaluations and practice the techniques used in managing various catastrophic injuries under the direct supervision of an approved clinical instructor. Lecture, discussion, and required hands-on laboratory experiences. Prerequisite: KPED 3354 with a C or better. Spring.

4327 ATHLETIC TRAINING CLINICAL EXPERIENCE IV A required capstone course for athletic training majors taken during the final semester of enrollment, this course is designed to afford the student an

internship experience in the private sector of athletic training. Practical experiences will be directed and assigned by the approved clinical instructor. These activities may include school visitations, injury management, surgery observations, clinical evaluations, and rehabilitation. The primary method of instruction is an internship focusing on the transition of the learner from student to an entry level allied health professional under the direct supervision of an approved clinical instructor and the academic coordinator of clinical education. Prerequisite: KPED 4301 with a grade of B or better, KPED 4330 with a C or better. Co-requisite: KPED 4315. Spring.

4330 ADMINISTRATION AND MANAGEMENT OF ATHLETIC TRAINING A required course of athletic training majors, students will learn management theories and strategies used in athletic training facilities will be explored. Specific topics include employment practices, budgeting, inventory, record keeping, facility design, occupational health and safety, computer applications, and legal issues. Lecture, discussion, projects. Prerequisite: admission to the athletic training program. Fall.

4351 PHYSICAL EDUCATION ADMINISTRATION An elective course for kinesiology and physical

full-day involvement and seminars. Taken concurrently with KPED 4691. Prerequisites: Admission into the physical education - teacher education program, completion of Internship I with a C or better, and successful completion of Praxis II (Exam 0856 and 092). Spring.

4691 INTERNSHIP II This course involves teaching under supervision in a public school setting. Requires full-day involvement and seminars. Taken concurrently with KPED 4690. Prerequisites: Admission into the physical education - teacher education program, completion of Internship I with a C or better, and successful completion of Praxis II (Exam 0856 and 092). Spring.

Medical Technology

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[1] Courses in Medical Technology (MD T)

4108 SEMINAR I Introduction to the hospital laboratory including phlebotomy and medical terminology; attendance at laboratory inservice.

4110 SEMINAR II Attendance at laboratory inservice; presentation of inservice including visual aids; review for comprehensive exam.

4111 IMMUNOLOGY Principles of basic immunoglobulin structure and antigen-antibody reactions with application to clinical immunology procedures.

4121 MANAGEMENT AND EDUCATION TOPICS

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Military Science and Leadership

Return to [Military Science and Leadership](#)

[1] Courses in Military Science and Leadership (MILS) - Basic

1101 FOUNDATIONS OF OFFICERSHIP Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. The course examines the unique duties and responsibilities of officers. Students discuss the organization and role of the Army, review basic life skills pertaining to fitness and communication, and analyze Army values and expected ethical behavior. Students are introduced to the leadership development program and small unit tactics in discussion and laboratory. Prerequisite: None. Fall.

1102 BASIC LEADERSHIP Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. The course presents fundamental leadership concepts and doctrine. Students practice basic skills that underlie effective problem solving, apply active listening and feedback skills, examine factors that influence leader and group effectiveness, and examine the officer experience. Students will participate in basic map reading and small group day land navigation in discussion and laboratory. Prerequisite: MSL 1101, equivalent credit, or instructor approval. Spring.

2201 INDIVIDUAL LEADERSHIP STUDIES Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. The course develops knowledge of self, self-confidence, and individual leadership skills. Students develop problem-solving and critical-thinking skills and apply communication, feedback, and conflict-resolution skills. The course further develops leadership theory and techniques discussed in MSL 1102 in discussion and laboratory. Prerequisite: MSL 1102, equivalent credit, or instructor approval. Fall.

2202 LEADERSHIP AND TEAMWORK Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. The course focuses on self-development guided by knowledge of self and group processes. A continuation of MSL 2201, the course challenges current beliefs, knowledge, and skills and provides equivalent preparation for the ROTC National Advanced Leadership Camp as the Leaders Training Course. Students study military tactical missions, planning considerations, and patrol base activities in discussion and laboratory. Prerequisite: MSL 2201, equivalent credit, or instructor approval. Spring.

[2] Courses in Military Science and Leadership (MILS) - Advanced

3301 LEADERSHIP AND PROBLEM SOLVING Part of the advanced course program and required of all students pursuing a commission in the US Army. The course examines basic skills that underlie effective problem solving. Students analyze the role officers played in the transition of the Army from Vietnam to the 21st Century and review the features and execution of the Leadership Development Plan. Students are placed in leadership positions on campus and in field environments and analyze missions, plan military operations, and execute squad battle drills in laboratory. Emphasis is placed on physical conditioning and stamina. Prerequisite: Completion of all basic courses or equivalent. Fall.

3302 LEADERSHIP AND ETHICS Part of the advanced course program and required of all students pursuing a commission in the US Army. The course probes leader responsibilities that foster an ethical command climate. Students develop cadet leadership competencies, prepare for success at the National

4420 NUCLEAR PHYSICS/RADIOCHEMISTRY Fundamentals of basic atomic and nuclear physics, including the structure of the atom, modes of radioactive decay, mathematical calculation of radioactivity, passage of charged particles and high-energy photons through matter, and the primary and secondary sites of radionuclide production.

4425 IN VIVO NUCLEAR MEDICINE I

disease prevention, and illness and disease management are included. Prerequisites: Completion of all 2000-level required nursing courses, PHIL 2325 or 1301, BIOL 4311. Spring.

3510 CARING FOR INDIVIDUALS WITH PSYCHIATRIC-MENTAL HEALTH PROBLEMS This theory/laboratory/clinical course focuses on nursing theories and practices in the care and treatment of patients across the life span and their families as they respond to psychiatric/mental health problems. The course assists students in effective management of patients experiencing psychosocial stressors in other settings. Prerequisites: Completion of all 2000-level required nursing courses, BIOL 4311. Pre-/Corequisites: FACS 2341 or PSYC 2370, PHIL 2325 or 1301. Fall.

3515 CARING FOR ADULTS WITH CHRONIC HEALTH PROBLEMS This theory/laboratory/clinical course focuses on nursing care of culturally diverse adult patients across the life span who are experiencing chronic health problems and end of life issues. Additional focus is on well elderly persons in order to reduce health risks, promote health, and prevent illness. Prerequisites: Completion of all required 2000-level nursing courses, PHIL 2325 or 1301, and BIOL 4311. Spring.

4114, 4214 SPECIAL STUDIES IN NURSING These courses are varied to meet the needs of nursing students, and may include NCLEX preparation and clinical practice with a preceptor. Prerequisite: Permission of the Undergraduate Director.

4210 ADVANCED HEALTH ASSESSMENT This theory/laboratory/clinical course focuses on comprehensive biophysical and psychosocial health assessments of individuals across the life span. On demand.

4213 RESEARCH IN NURSING This theory course introduces the language and processes of research within the nursing profession. Course content focuses on retrieving, reading, evaluating, disseminating, and using research in nursing practice. Prerequisites: Completion of all 3000-level required nursing courses and a statistics course (PSYC 2330, SOC 2321, MATH 2311, or PSCI 2312). Fall.

4220 ROLES AND ISSUES IN PROFESSIONAL NURSING This theory course explores current issues and trends confronting nurses, nursing, and health care delivery as well as presenting career planning and transitioning into the workforce. Prerequisite: Completion of all 3000-level required nursing courses. Fall.

4314 HONORS IN NURSING This course is taught over two semesters and is part of the senior honors program in nursing. Prerequisite: Enrollment by invitation. See the bulletin Nursing Scholars Program. Fall.

4325 GUIDE TO ALTERNATIVE AND COMPLEMENTARY HEALTH CARE An overview of alternative/complementary health care philosophies and therapies and their role in health care today. Addresses issues of self-treatment, safety, effectiveness, and resources. Examples include nutritional supplements, massage, aromatherapy, herbal therapy, and relaxation therapy. On demand.

4505 CARING FOR ADULTS WITH COMPLEX HEALTH PROBLEMS This theory/laboratory/clinical course focuses on nursing care of adult patients across the life span who are experiencing complex, multi-system health problems and life-threatening illnesses or injuries. Emphasis is placed on interdisciplinary collaboration and on psychological, cultural, social, economic, and spiritual concerns of patients. Advanced technology, assessment skills, and collaborative practice are addressed. Prerequisite: Completion of all 3000-level nursing courses. Fall.

4510 COMMUNITY HEALTH NURSING This theory/laboratory/clinical course focuses on synthesis of professional nursing and public health science applied to promoting and preserving the health of populations. The course is concerned with both wellness and illness in providing and facilitating the delivery of direct and indirect health-care services. Prerequisites: Completion of all 3000-level required nursing courses and NURS 4213. Spring.

4515 LEADERSHIP AND RESOURCES MANAGEMENT IN NURSING This theory/laboratory/clinical

course examines nursing leadership and management. The course provides innovative and practical opportunities to influence the delivery of health care and the development of health-care policy to meet the unique challenges of today's health-care environment. Prerequisites: Completion of all 3000-level required nursing courses and NURS 4213. Spring.

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Occupational Therapy

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[1] Courses in Occupational Therapy (OTHY)

1200 SURVEY OF HEALTH SCIENCES An elective open to all students, the course is designed to assist students in the exploration of professional requirements and responsibilities of various health careers. Guest lectures, discussion, field trips. Fall, and on demand.

environment to accommodate limitations in performance. Lecture, lab. Prerequisite: Admission to the occupational therapy program, permission of chair. Fall.

4127 LEVEL I FIELDWORK, CLINICAL ROTATION I This course is a clinical experience with emphasis on developing observation skills, therapeutic interaction skills, professional behavior, beginning documentation skills, and patient care skills necessary for safe, basic clinical performance. Clinical placement. Prerequisite: Admission to the occupational therapy program, permission of chair. Spring.

4128 LEVEL I FIELDWORK, CLINICAL ROTATION II This course is a clinical experience with emphasis on occupational therapy evaluation and treatment, identification of treatment theories/frames of reference and activity analysis. Clinical placement. Prerequisite: Admission to the occupational therapy program, permission of chair. Fall.

4230 OCCUPATIONS ACROSS THE LIFESPAN Occupational therapy's domain of concern stems from the profession's interest in human beings' ability to engage in everyday occupations. Based on previously acquired knowledge on occupation, this required lab style course will study the concept of occupation and its role among healthy individuals at different ages and life stages. Using the occupational therapy practice framework, students will be able to observe and describe typical occupations experience within individuals' cultural, physical, social personal, spiritual, temporal, and virtual contexts. Fall.

4270 PHARMACOLOGY IN REHABILITATION Drugs commonly encountered by occupational therapy practitioners are presented. Drug effects, side effects, and toxicology are explained. Lecture, discussion. Prerequisite: Admission to the occupational therapy program, permission of chair. Fall.

4300 FUNCTIONAL NEUROANATOMY An analysis of the structure and function of the peripheral, central and autonomic nervous systems, including laboratory study of specimens of human central nervous system. Summer.

4308 FOUNDATIONS IN OCCUPATIONAL THERAPY Students examine the conceptual foundations of occupational therapy and explore the role of occupational therapy practitioners as influenced by a variety of service delivery models. The course will assist students with understanding the basic components of documentation of occupational therapy services. Lecture, discussion. Prerequisite: Admission to the occupational therapy program permission of chair. Fall.

4310 ASSISTIVE TECHNOLOGY Elective for students majoring in occupational therapy or related health care fields. The use of assistive technology to promote greater independence for individuals with disabilities is presented. Domains presented include vision, hearing, communication, cognition, and environmental controls. Lecture, lab, field trips. Fall, spring.

4317 FUNCTIONAL KINESIOLOGY Principles of body mechanics and analysis of muscle and joint actions in functional coordinated movement are presented. Lecture, lab. Prerequisite: Admission to the occupational therapy program, permission of chair. Fall.

4321 EVALUATION AND TREATMENT IN PHYSICAL DISABILITIES I The scope of practice with adolescent through adult populations with physical disabilities is introduced. Emphasis is on rehabilitative and biomechanical approaches to evaluation, treatment planning, implementation, and documentation relative to occupational performance and occupational adaptation. Lecture, lab. Prerequisite: Admission to the occupational therapy program, permission of chair. Spring.

4325 FOUNDATIONS IN MENTAL HEALTH FOR OCCUPATIONAL THERAPY This course presents the etiology, manifestations, treatment, and occupational performance implications of major neuropsychiatric conditions. Lecture and case presentations. Prerequisite: Admission to the occupational therapy program, permission of chair. Fall.

health care system and physical therapy services with those of other countries. Instruction includes lectures, discussion, networked (requiring computer), readings and local field trips. Prerequisites: Consent of instructor. On demand as an elective.

4290 TOPICS IN PHYSICAL THERAPY: INTERNATIONAL STUDY FIELD TRIP Study in a selected country to enhance knowledge of the health care systems and culture through organized field trip experiences. Prerequisites: Consent of instructor. On demand as an elective.

Other physical therapy undergraduate courses are inactive.

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Psychology and Counseling

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[1] Courses in Psychology (PSYCH)

1300 GENERAL PSYCHOLOGY A general education elective in behavioral and social sciences. Survey and introductory course in psychology to acquaint the student with psychology as a behavioral science. A required course for majors and minors. Lecture. Fall, spring, summer.

2330 PSYCHOLOGICAL STATISTICS Introductory descriptive and inferential statistics. A required course for majors. No credit will be awarded in more than one introductory statistics course. Lecture/laboratory; computer work required. Fall, spring, summer.

2370 DEVELOPMENTAL PSYCHOLOGY Continuation of theoretical points of view related to development across the lifespan. Category III elective. Lecture. Prerequisite: PSYC 1300. Fall, spring, summer.

3305 HEALTH PSYCHOLOGY A comprehensive introduction to the field of health psychology. Both theoretical and applied aspects of the work of the health psychologist will be reviewed. Category IV elective. Prerequisites: PSYC 1300 or consent of instructor. On demand.

3306 POSITIVE PSYCHOLOGY

elective. Lecture. Prerequisite: PSYC 1300. Fall, spring, summer.

4325 PHYSIOLOGICAL PSYCHOLOGY Techniques of investigation in physiological psychology. Structure and function of all nerves, muscles, and endocrine glands. Investigation of physiological basis for behavior. Category II elective. Lecture. Prerequisite: PSYC 1300. Fall, spring, summer.

4340 HISTORY AND SYSTEMS OF PSYCHOLOGY Study of philosophical and scientific antecedents of contemporary psychology. A required course for majors. Lecture. Prerequisite: Graduating senior psychology major. Fall, spring, summer.

4351 BEHAVIOR MODIFICATION The nature of a variety of behavior modification techniques which have proved useful in such diverse areas as mental retardation, abnormal behavior, education, and social behavior and their application to specific forms of behavior. Category IV elective. Lecture. Prerequisite: PSYC 3351. On demand.

4352 ADULT PSYCHOLOGY Survey of psychological aspects of the adult's role in contemporary society in relation to self-image, family, and vocation. A consideration of adulthood as developmental as applied to the physical, mental, emotional, and social being. Category III elective. Lecture. Prerequisite: PSYC 1300. On demand.

4353 PRACTICUM IN BEHAVIOR MODIFICATION Supervised, practical experience in behavior management programs. Category IV elective. Lecture. Prerequisites: PSYC 3351, 4351, and consent of instructor. On demand.

4380 INDEPENDENT READINGS IN PSYCHOLOGY Readings selected by the student under the direction of the major professor from special areas and topics of psychology. Category IV elective. Prerequisite: Consent of instructor and chair. On demand.

4382 INDEPENDENT RESEARCH IN PSYCHOLOGY Development of a research proposal and the execution of the study under the guidance of a faculty advisor. Category IV elective. Prerequisite: PSYC 3332, consent of instructor and chairperson. On demand.

4390 PSYCHOLOGICAL TESTS AND MEASUREMENTS

anatomy, physiology, and pathology affecting technique and considerations for technique chart construction.

2224 RADIOGRAPHIC PROCEDURES II Continuation of RADG 2213.

2231 PRINCIPLES OF RADIOGRAPHIC EXPOSURE II Continuation of RADG 2223.

2232 RADIOGRAPHIC PROCEDURES III Continuation of RADG 2224.

2233 RADIATION PHYSICS I General theories of physics at atomic and subatomic levels, electrostatics, and electronics related to radiographic practice, x-ray tubes and transformers, circuits, and equipment. The production of x-radiation, its properties, measurements, and interaction with matter.

2420 CLINICAL EDUCATION II Continuation of RADG 2510.

2510 CLINICAL EDUCATION I Application of the skills and knowledge obtained in didactic education to the practical application in the clinical setting under direct supervision and instruction. Correlated with other courses in the curriculum, the student learns to explain and perform radiographic procedures, evaluate radiographs for positioning accuracy and image quality, and develop expertise in the necessary interpersonal relationships.

2530 CLINICAL EDUCATION III Continuation of 2420.

3140 PRINCIPLES OF RADIATION BIOLOGY Effects of ionizing radiations on living tissues. Included are discussions on relative sensitivity and resistance of organ systems, cellular and systemic response to radiation, and in-utero response to radiation. Acute and late effects of radiation.

3141 PRINCIPLES OF RADIATION PROTECTION Interactions of radiation with matter, its biological effects, and the need for protection. Methods for minimizing exposure to patients, maximum permissible dose equivalents, personnel monitoring, shielding, and methods of measuring ionizing radiation.

3142 EVALUATION OF RADIOGRAPHS III Continuation of RADG 2130.

3143 RADIATION PHYSICS II Continuation of RADG 2233.

3144 RADIOGRAPHIC PROCEDURES IV Continuation of RADG 2232.

3150 EVALUATION OF RADIOGRAPHS IV Continuation of RADG 3142.

3151 RADIOGRAPHIC PROCEDURES V Continuation of RADG 3144.

3250 IMAGING EQUIPMENT Various methods of recording images and relationship of principles of diagnostic imaging to the process of image production and the specific equipment required. Includes image intensification, magnification, tomography, serial radiography, and xeroradiography. Advanced imaging techniques, including C-T, ultrasound, nuclear medicine, digital radiography, and magnetic resonance imaging.

3740 CLINICAL EDUCATION IV Continuation of RADG 2530.

3851 CLINICAL EDUCATION V Continuation of RADG 3740.

4160 INTRODUCTION TO COMPn141ER vs7AQ.nbiological

mathematical computation of sound intensity and pressure, and physiological aspects of acoustics. Lecture, discussion, and laboratory practice in the speech-science lab. Prerequisite: Program admission. Fall, spring.

3320 LANGUAGE DISORDERS IN CHILDREN Required. A study of theories and practices pertaining to developmental, organic, and psychological language disturbances in children, including an overview of other disciplines involved in childhood language disorders. Lecture. Prerequisites: Program admission, SPTH 3321. Spring, summer.

3321 NORMAL LANGUAGE ACQUISITION Required. A study of normal speech and language acquisition and growth from first vocalization to abstract thought. Lecture. Prerequisite: Program admission. Fall, spring.

3325 CLINICAL METHODS Required. An introductory study of clinical management of speech, language, and hearing disorders, preparing students for clinical practicum experiences. Lecture and discussion. Prerequisite: Program admission. Fall, spring.

3326 DIAGNOSTIC METHODS Required. A study of the methods and procedures for diagnosing and appraising disorders of speech, language, and hearing, including study of and practical experience in administration of tests applicable to these disorders. Lecture, discussion, and in-class laboratory practice. Prerequisite: Program admission. Fall, spring.

SPTH 4110 CLINIC SEMINAR I Elective/requirement (check with department). Seminar to accompany Clinical Practicum I, designed to enhance the clinical experiences of the practicum student within the UCA Speech-Language-Hearing Center. Discussion. Prerequisite: Program Admission. On demand.

SPTH 4111 CLINIC SEMINAR II Elective/requirement (check with department). Seminar to accompany Clinical Practicum II, designed to enhance the clinical experiences of the practicum student within the UCA Speech-Language-Hearing Center. The focus is on assessment and remediation of phonological and language disorders and other issues related to the clinical practicum experience. Discussion. Prerequisites: Program Admission. On demand.

SPTH 4115 CLINICAL PRACTICUM I Required. This course continues the study of behavior management that started in a portion of SPTH 3325 (Clinical Methods), for Seniors in Speech-Language Pathology. The course reviews basic principles before moving on to concepts such as shaping, stimulus control, token economy, etc., with applications to the evaluation and treatment of oral communicative disorders. Fall, spring.

SPTH 4116 CLINICAL PRACTICUM II Elective/requirement (check with department). Supervised clinical experience in the treatment of individuals with speech or language delays. Clinic. Prerequisites: Program admission. On demand.

SPTH 4220 DIAGNOSIS AND PLANNING Required. Practice in writing and interpreting a vJ/inyc1(Sping a vJon reting a vJ/in52lau individu2-23A2 inn an0 5n retingeldhearing, i-inic.)-20pse reviewsPiniD(degoe den Sp cliapyo abstcture,23A2 innwillth applth

the humanities requirement in the general education program. Lecture, discussion, writing. Prerequisites: none. Fall, spring, summer.

2305 WORLD LITERATURE I Satisfies three hours of the world cultural traditions requirement in the general education program. The purpose of World Literature I is to introduce the student to a variety of literary texts which have greatly influenced culture around the world. Readings are chosen from the epic, dramatic, poetic, and speculative traditions of several nations and cultures from ancient times up to the Renaissance. Lecture, discussion, writing. Prerequisites: None. Fall, spring, one summer term.

2306 WORLD LITERATURE II Satisfies three hours of the world cultural traditions requirement in the general education program. The purpose of World Literature II is to introduce the student to some of the literary works which embody and consider the values, ideas, and beliefs that have helped make the modern world. Readings are chosen from several national traditions of the seventeenth through the twentieth centuries. Lecture, discussion, writing. Prerequisites: None. Fall, spring, one summer term.

2312 AMERICAN LITERATURE I A basic course requirement for majors and minors and, in series with American Literature II, a charting of the major forms and styles of American literature. The course traces the development of major figures in American Colonial and Provincial literature (such as Mather, Brockden Brown, Franklin) to leading figures of the American Renaissance (such as Hawthorne, Melville, Poe, Emerson, and Thoreau). Lecture, discussion, writing. Fall, spring.

2313 AMERICAN LITERATURE II A basic course requirement for majors and minors and, in series with American Literature I, a charting of the major forms and styles of American literature. The course traces the development of major figures in post-Civil War American Literature (such as Twain, James, and Crane) to major American writers between the first and second world war (such as Hemingway, Stevens, Frost, and Faulkner). Lecture, discussion, writing. Fall, spring.

2316 ENGLISH LITERATURE I This course for English majors and minors offers a foundational survey of English literature from the Anglo-Saxon period through the Renaissance. Conducted as a lecture/discussion class, it will pay attention to the social, political, and historical matrix within which the literature developed. Prerequisites: none. Fall and spring.

2317 ENGLISH LITERATURE II This course for English majors and minors offers a foundational survey of English literature from the Neoclassical and Romantic periods. Conducted as a lecture/discussion class, it will pay attention to the social, political, and historical matrix within which the literature developed. Prerequisites: none. Fall, spring.

2318 ENGLISH LITERATURE III This course for English majors and minors offers a foundational survey of English literature from the Victorian and Modern periods. Conducted as a lecture/discussion class, it will pay attention to the social, political, and historical matrix within which the literature developed. Prerequisites: none. Fall, spring.

2370 INTRODUCTION TO FICTION Satisfies the humanities requirement in the general education program. The purpose of Introduction to Fiction is to introduce students to the art and significance of short fiction: usually, short stories, novellas, and, sometimes, short novels. Students will learn to read stories carefully and analytically and be encouraged to see the way stories both reflect and enhance our understanding of life. Lecture, discussion, writing. Fall, spring.

2380 INTRODUCTION TO POETRY Satisfies the humanities requirement in the general education program. Exposes the student to the development, forms, and techniques of poetry. Some attention is paid to prosodical, musical, and metrical effects. Lecture, discussion, writing. Fall, spring.

2390 INTRODUCTION TO DRAMA Satisfies the humanities requirement in the general education

toward an honors degree in English. A reading list, chosen by student and tutor with the department chair's approval, will provide the foundation for a thesis to be written by the honors candidate during the senior

methods used to teach literature, grammar, and composition and evaluated teaching presentations before other candidates. It should be taken during the fall senior block, concurrent with Internship I. Prerequisites: Admission to teacher ed. Lecture, Discussion, writing. Fall.

4360 HISTORY AND STRUCTURE OF THE ENGLISH LANGUAGE A survey of English from the Anglo-Saxon to the modern period. Attention will be paid to the social, political and literary matrix within

This course uses a lecture and discussion format in an assessment of the physical, social, economic, and political considerations in the examination of major global natural resource issues with emphasis on the

3351 WEATHER AND CLIMATE An upper-division elective. This course uses a lecture and discussion format in the identification and assessment of atmospheric processes. Weather variables are investigated, the components and procedures of the daily weather forecasts are described, and the world's climates analyzed. Fall.

3361 GEOGRAPHY OF LANDFORMS An upper-division elective. Using a lecture and laboratory format, this course examines the landforms of the earth's surface including those resulting from diastrophism, volcanism, plate tectonics, weathering, mass movement, running water, karst, glacial ice, periglacial environments, wind, and breaking waves. Prerequisite: GEOG 1315 or consent of instructor. Spring, even years.

2302 AMERICAN NATION II Required for the BA/BS major, history minor, and BSE-Social Studies (history emphasis) major. Satisfies general education American history and government requirement. This course provides an understanding of the development of the United States since the Civil War/Reconstruction period. Lecture and discussion, emphasizing reading, critical analysis of documents, and writing. Fall, spring, summer.

3340 INTRODUCTION TO AMERICAN INDIAN HISTORY: 1500-PRESENT Upper-division elective. This course seeks to promote an understanding of the role played by the indigenous peoples of North America in the historical evolution of the United States. Topics will include: initial migrations and cultural development; impact of European contact and conquest; assimilation, acculturation, and adaptation; removal, resistance, and reservation life; and 20th century adjustments. On demand.

3353 AFRICAN-AMERICAN HISTORY, 1619-1868 Upper-division elective. Minor in Southern and Arkansas studies. Minor in African and African American studies. Provides an understanding of American history from the perspective of the African-American experience. Colonial period to the ratification of the Fourteenth Amendment. Lecture, discussion, writing. On demand.

3354 AFRICAN-AMERICAN HISTORY, 1868 TO PRESENT Upper-division elective. Minor in Southern and Arkansas studies. Minor in African and African American studies. Provides an understanding of American history from the perspective of the African-American experience, from the ratification of the Fourteenth Amendment to the protest movements of the modern era. Lecture, discussion, writing. On demand.

3381 AMERICAN MILITARY HISTORY Upper-division elective. This course surveys the history of the American military establishment. Emphasis on military policy, the principles of war, and the interrelationship among military affairs, technology, and the general pattern of societal development. Spring.

3388 TUTORIAL STUDIES IN AMERICAN HISTORY Upper-division elective. Directed reading in American history. Preparation for an honors thesis to be written during the student's senior year. Discussions with instructor, research, writing. Prerequisite: consent of instructor and department chair. On demand.

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4376 EUROPE, 1914-1939 Upper-division elective. Students examine the background and history of World War I; peacemaking and international organization; the rise of fascism, national socialism, and Japanese imperialism; collapse of peace. Lectures, discussion, analysis of documents, writing. On demand ..

4377 THE CONTEMPORARY W.3 pDfC.7j-Tj53.7785 0 Tw(Upper-division electivD(World Wal ,on;tCoWorld sm , on;r of)Tj3.7762 -1.5 Tmajor chap insand mo Unn cr-dlganizatace. Lectures, discussion, analysis of documents, writing. O

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to be determined by instructor and the needs of students who enroll. This course can be repeated for credit and may be counted as either United States or world history, depending on the subject of study. Lectures, discussion, analysis of documents, writing. On demand.

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Philosophy and Religion

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[1] Courses in Philosophy (PHIL)

1301 PHILOSOPHY FOR LIVING A general education elective satisfying the humanities requirement. Develops basic skills in critical thinking, emphasizing clarification of personal values, major views of human nature, and issues in philosophical thought. Combines lecture and discussion methods. Fall, spring, summer.

1330 WORLD PHILOSOPHIES A general education elective satisfying three hours of the world cultural traditions requirement. Develops basic skills in critical thinking, emphasizing the global nature of philosophizing and the clarification of personal and social values through cross-cultural understanding. Combines lecture and discussion methods. On demand.

2300 EXISTENTIAL PROBLEMS IN PHILOSOPHY An elective for major and minors in philosophy and religious studies. Critical introductory study of existential problems in philosophy. For students who want a more advanced introduction to philosophy. Combines lecture and discussion methods. Spring, odd years.

2305 CRITICAL THINKING A general education elective satisfying the humanities requirement. Designed to improve a person's ability to reason clearly and correctly and to make rational decisions based on understanding decision strategies, knowing how to use information, and being able to avoid erroneous thinking. Combines lecture, discussion, and critical writing methods. Fall, spring.

2310 INTRODUCTION TO LOGIC A required course for all philosophy majors and minors (may substitute PHIL 3310) and an elective for minors in linguistics. A course for any student wanting to improve reasoning abilities. Introductory study of correct inference in deductive, scientific, and everyday contexts. Included are classical and modern logic, the logic of science, the principles of definition, and the common errors of reasoning. Primarily lecture and task-oriented instruction. Every fall, spring, even years.

2321 BUSINESS ETHICS An elective for majors and minors in philosophy but also open to interested students, especially those majoring in business areas. An introduction to ethical issues in business with an emphasis on case studies. Combines lecture and discussion methods. On demand.

2325 CONTEMPORARY MORAL PROBLEMS A general education elective satisfying the humanities requirement. Introduction to the major moral and ethical problems that confront individuals of the 21st century, such as abortion, euthanasia, animal rights, and world hunger. Combines lecture and discussion methods. Fall, spring, summer.

2360 GENDER, RACE, AND CLASS: PHILOSOPHICAL ISSUES A general education elective satisfying the humanities requirement. An introduction to philosophical issues concerning gender, race, and class with an emphasis on how these issues affect our identities and our conception of ourselves and others. Combines lecture and discussion methods. Fall, spring.

3300 GREEK AND ROMAN PHILOSOPHY One of the history of philosophy sequence. Required for all majors in philosophy but open to other students with interest in ancient philosophy. Encouraged as an elective for minors in philosophy. Early Western philosophy from Thales through Plotinus. Special emphasis on Plato and Aristotle. Combines lecture and discussion methods. Fall.

3301 MEDIEVAL PHILOSOPHY One of the history of philosophy sequence; an elective for majors and minors in philosophy and religious studies. Major thinkers and issues from the medieval period. Emphasis on Augustine, Anselm, Aquinas, Scotus, and Ockham. Combines lecture and discussion methods. On demand.

3302 MODERN PHILOSOPHY One of the history of philosophy sequence. Required of all majors in philosophy but open to any student with interest in modern philosophy. Encouraged as an elective for minors in philosophy. Major philosophical figures from the Renaissance through Kant. Emphasis on Descartes, Spinoza, Locke, Berkeley, Hume, and Kant. Combines lecture and discussion methods. Spring.

3303 NINETEENTH-CENTURY PHILOSOPHY One of the history of philosophy sequence; an elective for majors and minors in philosophy and religious studies. Major issues and philosophers in the nineteenth century, including Hegel, Nietzsche, Kierkegaard, Comte, Mach, Schopenhauer, and Mill. Combines lecture and discussion methods. Fall, odd years.

3304 AMERICAN PRAGMATISM One of the history of philosophy sequence. The study of the major American philosophers and movements from colonial times to the present with emphasis on pragmatism. Prerequisite: Three hours of philosophy or consent of instructor. Combines lecture and discussion methods. On demand.

3310 SYMBOLIC LOGIC An elective course for majors and minors in philosophy. Study and use of modern symbolic logic. Combines lecture method with problem-solving activities. Prerequisite: PHIL 2310 or consent of instructor. Spring, odd years.

3320 ETHICS Required for all majors and minors in philosophy (may substitute PHIL 3325). Fundamental ethical theories in the history of philosophy including those of Plato, Aristotle, Kant, and Mill. Contemporary moral theories also will be studied. Combines lecture and discussion methods. Spring, odd years.

3325 POLITICAL PHILOSOPHY An elective course for majors and minors in philosophy (may substitute as a requirement for PHIL 3320). Either a survey of selected major political theories from Plato to Marx or a careful examination of historical and contemporary discussions of a basic topic like justice, rights, or political authority. Combines lecture and discussion methods. Spring, even years.

3331 PHILOSOPHY OF RELIGION An elective for majors and minors in philosophy and may serve as a requirement or elective for students in religious studies but open to any student with interest in the topic. Nature of religious experiences, faith, and reason, the theistic arguments, the problem of evil, immortality, and problems of religious language. Combines lecture and discussion methods. On demand.

3340 AFRICAN AMERICAN PHILOSOPHY An elective for majors and minors in philosophy and African/African-American Studies. Attempts to understand the history, significance and value of the African American uments, than ph 0 TDse 9

3343 PHILOSOPHY OF SEX AND LOVE Elective for students majoring or minoring in either philosophy or religious studies and an elective for gender studies minors and other interested students. This course focuses on a number of philosophical treatises on the subjects of sex, love, and the relationship between the two. Combines lectures and discussions. Fall, odd years.

3345 FEMINIST PHILOSOPHY An elective course for philosophy majors and minors, as well as gender studies minors and other interested students. An examination of the relationships between feminism and philosophy. The course will compare and contrast different types of feminist theory, e.g., liberal, existentialist, radical, socialist, psychoanalytic and multicultural feminism. Combines lecture and discussion methods. Fall, even years.

3352 ASIAN PHILOSOPHY AND RELIGION An elective course for majors and minors in philosophy or religious studies and a required core course for the Asian studies minor. Major religions and philosophical ideas of Asia with emphasis on Hinduism, Buddhism, Confucianism, and Taoism. Combines lecture and discussion methods. On demand.

3360 PHILOSOPHY OF ART An elective course for majors and minors in philosophy but open for students interested in the arts. A study of the nature and purpose of the arts and of the experience of meaning and value through artistic creation and appreciation. Combines lecture and discussion methods. On demand.

3370 METAPHYSICS An elective course for all students majoring or minoring in either philosophy or religious studies and an elective for other interested students. This course is a survey of what Aristotle called "first philosophy." Metaphysics is a field of study in which one attempts to clearly and systematically address a wide-range of philosophical questions whose answers underlie our fundamental understanding of the nature of reality. Lecture and discussion format. Offered spring of even years.

3380 PHILOSOPHY OF SCIENCE An elective course for majors or minors in philosophy but open to students interested in science. An examination of the methods of scientific explanation and confirmation in logical and historical contexts. Combines lecture and discussion methods. On demand.

3382 PHILOSOPHY OF HISTORY An elective course for majors or minors in philosophy but open to students interested in history. Study of the logic and methodological foundations of historical science and of the major speculative theories of history from ancient times to the present including the philosophies of history of such persons as Polybius, Augustine, Hegel, Marx, Spengler, and Toynbee. See HIST 3382. Combines lecture and discussion methods. On demand.

3395 TOPIC IN PHILOSOPHY Study in depth of a selected major problem in philosophy or the works of individual philosophers or groups of philosophers. Content changes on demand. May be repeated for credit. See semester schedule for description of content. On demand.

4300 READINGS IN PHILOSOPHY Independent study designed to deal in depth with specific problems and individuals in philosophy. Prerequisite: Consent nce 52fered sp*(tt T1au,haugustine, Hegel of the TjT* -1.5 TD9nOv. PnRS TUogisents3 psychoanalytic and m4ned to detand s7JT*re7.5 TDIn01aur Ogustineunnd phi-choanalytmcted maj1.)Tj/TT4 1 fuW/T

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Political Science

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[1] Courses in Political Science (PSCI)

1330 UNITED STATES GOVERNMENT AND POLITICS Part of the general education program as either an American history and government or a behavioral and social sciences elective, a requirement for the PSCI major and minor (but not limited to majors and minors), and a prerequisite for most political science courses. An introduction to the principles and problems of American government, governing institutions, and political processes. Lecture and discussion. Fall, spring, summer.

2300 INTRODUCTION TO INTERNATIONAL RELATIONS Part of the general education program as a behavioral and social sciences elective and a requirement for the major and minor (but not limited to majors and minors). The course examines the concepts and principles that define the conduct of relations between nation-states and other actors. Lecture and discussion. Fall, Spring, Summer.

2312 STATISTICAL METHODS FOR POLITICAL ANALYSIS A requirement for the PSCI major and an elective for the minor (but not limited to majors and minors). An introduction to descriptive and inferential statistics, hypothesis testing, and displaying of data in various formats. Lecture, discussion, and computer laboratory. Fall.

2320 INTRODUCTION TO COMPARATIVE POLITICS A requirement for the PSCI major and minor (but not limited to majors and minors). A study of the concepts and methods of comparative politics. Special emphasis is given to comparing the types and forms of political systems and the political processes they undergo. Lecture and discussion. Fall, Spring.

2340 STATE AND LOCAL GOVERNMENT A requirement for the PSCI major and minor (but not limited to majors and minors) and a core requirement for the Public Administrative major). A survey of state and local government with particular reference to the changing problems faced by these units of government. Lecture and discussion. Fall, Spring, Summer.

3305 UNITED NATIONS AND INTERNATIONAL POLITICS A study of the history, establishment, charter, structure, and decision-making processes of the United Nations. Students will critically analyze the role of the UN in the international system during the Cold War and post-Cold War periods, specifically in the areas of international peace and security; disarmament and arms control; human rights; humanitarian assistance and refugees; and economic and social development. Elective for the Political Science major and minor. Prerequisite: PSCI 1330. Recommended: PSCI 2300. Fall.

3313 RESEARCH DESIGN An elective for the PSCI major and minor (but not limited to majors and minors). An in-depth examination of strategies available for performing social science research. Includes experimental, quasi-experimental, non-experimental, and survey research designs. Lecture and discussion. Prerequisite: PSCI 1330. Fall or Spring, on demand.

3315 INTERNATIONAL LAW AND ORGANIZATIONS A study of the origins and roles of international law and international organizations in the international system beginning in the 19th century. Special emphasis is placed on the extent to which aspects of international law and international organizations influence or constrain the behaviors and interactions of state and non-state actors in the international system. As a result of this course, students will be able to critically analyze the effectiveness of specific aspects of

majors and minors). A study of the causes and consequences of political and economic development in the "Third World." Lecture and discussion. Prerequisite: PSCI 1330. Fall (odd years).

4300 CONSTITUTIONAL LAW An elective for the PSCI major and minor (but not limited to majors and minors). A study of the Constitution of the United States, focusing on the work of the United States Supreme Court and the effects of its decisions upon the political system of the United States. Lecture and discussion. Prerequisite: PSCI 1330. Fall.

4301 CIVIL LIBERTIES An elective for the PSCI major and minor (but not limited to majors and minors). A study of the historical background, judicial decisions and contemporary social criticisms regarding civil liberties. Focus on the Bill of Rights. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

4305 THE POLITICAL ECONOMY OF DEVELOPMENT An elective for the PSCI major and minor (but not limited to majors and minors). A study of the causes and consequences of political and economic development in the "Third World." Lecture and discussion. Spring (odd years)

4310 INTERNATIONAL POLITICAL ECONOMY AND GLOBALIZATION An elective for the PSCI major and minor (but not limited to majors and minors). A study of the theories of international political economy and globalization. The dynamics of the global economy and the role of international financial institutions, such as the WTO, IMF, and the World Bank Group will be examined. Prerequisite: PSCI 1330. Spring, (even years).

4315 THE POLITICS OF PRESIDENTIAL SELECTION A study of the process by which US presidential candidates are nominated by their parties and then elected, and the constitutional devices (federation, electoral college) that shape the process. Campaign organization, finance, and strategy are thoroughly examined, as is electoral behavior in presidential elections. Prerequisite: PSCI 1330. Fall, Spring.

4320 REVOLUTION AND POLITICAL VIOLENCE An elective for the PSCI major and minor (but not limited to majors and minors). A study of the causes and consequences of mass political violence including revolutions, civil wars, and coups d'etat. Lecture and discussion. Fall (even years)

4325 MEXICAN POLITICS AND US-MEXICAN RELATIONS An elective for the PSCI major and minor (but not limited to majors and minors). A study of the government and politics of Mexico and the relationship between Mexico and the United States. Lecture and discussion. Spring (even years)

4328 DYNAMICS OF DEMOCRATIZATION A comparative approach to the study of democratization including the origins and causes of democracy, the problems of democratic transition, and the conditions for democratic stability and development. The course will be offered every other Fall. The methods of course delivery include lecture and student presentations. Prerequisite: PSCI 2320.

4331 AMERICAN POLITICAL THEORY An elective for the PSCI major and minor (but not limited to majors and minors). A study of major theoretical ideas and issues of American political thought from the colonial period to the present. Lecture and discussion. Prerequisite: PSCI 1330. Fall, odd years.

4334 THE AMERICAN PRESIDENCY An elective for the PSCI major and minor (but not limited to majors and minors). A study of the US Presidency, with emphasis on the roles, powers, and organization of the office. Presidential selection and executive-legislative tension also are examined. Lecture and discussion. Prerequisite: PSCI 1330. Fall, on demand.

4335 THE AMERICAN CONGRESS An elective for the PSCI major and minor (but not limited to majors and minors). A study of the US Congress and Arkansas state legislature, examining how people are nominated and run for these legislative offices, how the legislative branch is organized, and legislative procedures. Lecture and discussion. Prerequisite: PSCI 1330. On demand.

4336 CITY GOVERNMENTS AND POLITICS An elective for the PSCI major and minor (but not limited to majors and minors). A study of the large and small city governments in the US and Arkansas. Government institutions that make local policies are examined, as are the following problem areas: taxing, spending, revenue-sharing, education, policy, crime, and welfare. Lecture and discussion. Prerequisite: PSCI 1330. Spring, odd years.

4340 SEMINAR SELECTED TOPICS An elective for the PSCI major and minor (but not limited to majors and minors). Investigation of a significant issue or field of study in political science. Prerequisite: Junior, senior, or approved graduate standing with the prerequisites varying according to the topic and degree of specialization required. Lecture and discussion. On demand.

4345 GOVERNMENTS AND POLITICS OF SUB-SAHARAN AFRICA An elective for the PSCI major and minor (but not limited to majors and minors). A broad study of African traditional and modern political institutions as well as a specific examination of selected cases. Lecture and discussion. Prerequisite: PSCI 1330 and 2300. Fall, (odd years).

4351 COMMUNITY AND REGIONAL PLANNING An elective for the PSCI major and minor (but not limited to majors and minors). A study of the concepts and techniques of community and regional planning, with emphasis on the analysis of the community power structure. Lecture and discussion. Prerequisite: PSCI 1330. Fall (even years).

4375 INTERGOVERNMENTAL RELATIONS A core requirement for the Public Administration major and elective for the PSCI major and minor (but not limited to majors and minors). A study of the relationships among federal, state, and local government in the United States. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

4388 AMERICAN FOREIGN POLICY An elective for the PSCI major and minor (but not limited to majors and minors). A study of the foreign policy of the United States with emphasis on policies in the present century, current trends, and the foreign policy decision-making process. Lecture and discussion. Prerequisite: PSCI 1330 and 2300. Spring, (even years).

4390 INTERNSHIP IN POLITICAL SCIENCE This course provides a structured, supervised work experience in a public agency, a political campaign, or the office of an elected official. Each internship is unique to the needs of the student and the participating employer, but each student will complete between 120 and 150 hours of work during the semester. The activities and work hours will be determined by the student and the employer prior to the first day of the internship. An elective for the political science major and minor, this internship will count as the upper-division elective in one of the issue areas; the determination of the appropriate issue area will be made by the chair and the internship coordinator. The student must consult the internship coordinator before the start of the internship for approval. Prerequisite: Junior or senior standing. Fall, spring, summer.

4391 GOVERNMENT BUDGETING An elective for the PSCI major and minor (but not limited to majors and minors). A study of the administrative and political aspects of budgeting. Attempts to integrate the process of budgeting with the formulations of public policy alternatives. Lecture and discussion. Prerequisite: PSCI 1330 and 3360. Fall

4395 INTERNATIONAL CONFLICT AND CONFLICT MANAGEMENT A study of the causes and consequences of violent conflict between countries in the international system, as well as the causes and consequences of violent conflict between groups within countries. Methods and techniques of managing and resolving conflicts are examined, with a special emphasis on mediation, sanctions, and peace keeping. Spring.

4610 INTERNSHIP IN PUBLIC ADMINISTRATION An elective for the PSCI major and minor (but not

limited to majors and minors). This course provides a structured, supervised learning experience in a government or public-related agency. Prerequisite: Completion of major requirements. Fall, spring.

4199, 4299, 4399, 4499 STUDIES IN POLITICAL SCIENCE An elective for the PSCI major and minor (but not limited to majors and minors). Independent studies course in political science designed to meet the individual needs of a student. Credit from one to four hours may be earned in one semester. The work is chosen by the student and his tutor with the approval of the department chair. Students may arrange more than one independent study, subject to college and university rules. Prerequisite: Consent of instructor and department chair. On demand.

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Sociology

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[1] Courses in Sociology (SOC)

1300 PRINCIPLES OF SOCIOLOGY Part of the general education program as a behavioral and social sciences elective, a requirement for all majors, and a prerequisite for most sociology courses. An introduction to the basic conceptual, theoretical, and methodological principles of sociology as an academic discipline for understanding the structure and patterns of human social life. Lecture and discussion. Fall, spring, summer.

1302 ANTHROPOLOGY Part of the general education program as a behavioral and social sciences elective and an elective for other majors and minors. An introduction to the field of anthropology with an emphasis on basic anthropological principles, the nature of culture and social organization, and the biological beginnings of homo sapiens. Lecture and discussion. Fall, spring, summer.

2321 SOCIAL STATISTICS A requirement for all majors and an elective for minors. This course focuses on developing students' ability to understand, apply, and interpret basic descriptive and inferential statistics. This course uses both lectures on the logic of statistics and workshops on the analysis of data sets using statistical computer software. No credit will be given in more than one introductory statistics course. Prerequisite: Sociology major or minor or consent of instructor. Fall, spring, summer.

2325 SOCIAL PROBLEMS An elective for majors and minors. Examination of contemporary social problems, their causes, and proposed solutions. Emphasizes the application of sociological theories to social problems related to the major systems and institutions in our society. Lecture and discussion. Fall, spring, summer.

2342 SOCIOLOGY OF YOUTH An elective for majors and minors. A detailed exploration of social issues related to childhood and adolescence. Particular focus will be placed on youth role expectations and socialization processes as regulated by historical events, population trends, and social institutions. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

2360 SELF AND SOCIETY An elective for majors and minors. An examination of the relationship between the psychology of the self and the social situations in which people act, emphasizing the role that symbols and language play in identity formation and social interaction in everyday life. Lecture and discussion. Prerequisite: SOC 1300. Fall, spring.

3310 RACIAL AND ETHNIC RELATIONS An elective for majors and minors. A study of racial and ethnic

the role played by social movements in bringing about or resisting change in times of social upheaval. Emphasis is placed on those factors that lead to the rise of new movements, as well as those that determine movements' success or failure in achieving their objectives. Lecture and discussion. Prerequisite: SOC 1300. Spring.

4320 SOCIOLOGY OF WORK An elective for majors and minors. Work and its organization, with emphasis on sociological factors affecting work motivation and effectiveness as well as the impact of workplace structure on individual behavior. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

4321 SOCIAL POLICY ANALYSIS An elective for majors and minors. Introduction to the process and product of social policy. Considerable attention is given to understanding the general stages of the policy process, and employing this information to analyze major contemporary social policy issues relating to employment and wages, poverty and welfare, health care, the environment, etc. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

4322 SOCIOLOGY OF MENTAL ILLNESS An elective for majors and minors. This course compares and contrasts the major theoretical paradigms which account for mental illness, investigates the social factors influencing the genesis, diagnosis and treatment of mental illness, and explores the social consequences of entry into the role of mental patient. Lecture and discussion. Prerequisite: SOC 1300. Fall, even years.

4330 SOCIAL THEORY A requirement for all majors and an elective for minors. This course examines the theoretical contributions to sociology of selected nineteenth and early twentieth-century scholars and proceeds to the assessment of contemporary theoretical perspectives in sociology including functional theory, conflict theory, and various micro interaction theories. Lecture and discussion. Prerequisite: SOC 1300 and a minimum of 15 hours in sociology. Fall, spring, summer.

4331 SOCIAL GERONTOLOGY An elective for majors and minors. This course covers the political economy of aging by examining societal-level responses to an aging population and the effects that societal responses have had on the elderly as a group. Lecture and discussion. Prerequisite: SOC 1300. Spring.

4334 MEDICAL SOCIOLOGY A requirement for all medical concentration majors and an elective for other majors and minors. This course examines the institution of medicine using sociological theories. Topics

~~include the role of medicine in society, the social structure of medicine, and the impact of medicine on society.~~
MEDICAL SOCIOLOGY is a requirement for all medical concentration majors and an elective for other majors and minors. This course examines the institution of medicine using sociological theories. Topics include the role of medicine in society, the social structure of medicine, and the impact of medicine on society. Prerequisite: SOC 1300. Spring.

2310 FRENCH CONVERSATION AND COMPOSITION I Review and broadening of basic skills in realistic contexts. The first course in the minor or major. Study of cultural and literary texts. Discussion/lecture. Prerequisite: FREN 1320 or appropriate placement examination score and consent of chair. Fall, spring.

2320 FRENCH CONVERSATION AND COMPOSITION II Further review with special emphasis on reading and writing. Also fulfills humanities area elective in general education. Discussion/lecture. Prerequisite: FREN 2310 or appropriate placement examination score and consent of chair. Fall, spring.

2330 BUSINESS FRENCH Special applications of French to the business environment. Emphasis on a broad range of topics related to the needs of people working with or living in the French business community. Discussion/lecture. Prerequisite: FREN 2310 or consent of chair. On demand.

2340 INTENSIVE ORAL PRACTICE ABROAD IN FRENCH Intensive practice in speaking French. Student must receive a minimum of 45 hours of classroom instruction, which may be supplemented by field experiences. Students must study in a program approved by the chair of the Department of World Languages, Literatures, and Cultures. French 2340 cannot be counted toward the major or minor in French, nor can it be used to fulfill the three credit hours required at the intermediate level for the B.A. foreign language requirement. Prerequisite: FREN 1320. On demand.

3160, 3260 PRACTICUM IN FRENCH Designed to enhance communication skills and cultural knowledge through participation in authentic language experiences. May be repeated once, but a maximum of 3 hours may be applied to the major or minor program. Prerequisite: FREN 2320 or consent of chair. On demand.

3300 ADVANCED GRAMMAR AND COMPOSITION I In-depth study of grammar and practice in communication skills including increased writing in French. Discussion/lecture. Prerequisite: FREN 2320 or consent of chair. On demand.

3303 ADVANCED GRAMMAR AND COMPOSITION II In-depth study of the French language and introduction to textual analysis/explication de texte with an emphasis on stylistics and rhetoric. Discussion/lecture. Prerequisite: FREN 2320 or consent of chair. On demand.

3312 FRENCH CIVILIZATION Survey of historical, political, and social elements of French society with an analysis of modern French customs and social problems. Discussion/lecture. Prerequisite: FREN 2320 or consent of chair. On demand.

3315 ISSUES OF CULTURAL IDENTITY IN THE FRANCOPHONE WORLD Topics course in issues of cultural identity in the French-speaking world. Areas of study may include the literature and culture of French-speaking North America, Africa, Indochina, and the French Antilles. With approval by the Department Chair, French 3315 may count as either a literature course or a culture course to fulfill major area requirements. Discussion/lecture. Prerequisite: French 2320 or consent of Chair. On demand.

3320 FRENCH LITERATURE I Survey of French literature before 1800. Discussion/lecture. Prerequisite: FREN 3300 ss

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World Languages, Literatures, and Cultures

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[1] Courses in German (GERM)

1111, 1211 BASIC GERMAN COMMUNICATION Oral practice in basic German communication for social and travel situations. Laboratory or classroom setting. Use of videos, CAL programs, and authentic materials to model real-life language situations. On demand.

1305 READING GERMAN Introduction for the beginning student who wishes to concentrate on developing reading skills. GERM 1305 does not count toward the BA requirement. On demand.

1310 ELEMENTARY GERMAN I Beginning study of German. Basic comprehension and communication skills are emphasized. Text materials correlated with a video program presenting language and culture in real-life situations. Listening comprehension practice through on-line multi-media workbook. Discussion/lecture. Fall, spring.

1320 ELEMENTARY GERMAN II Continued practice in comprehension and communication skills. Discussion/lecture. Prerequisite: GERM 1310 and appropriate placement examination score, or consent of chair. Fall, spring.

2112, 2212 COMMUNICATING IN GERMAN I AND II Oral practice of German in social, travel, and business situations. Do not fulfill BA foreign language requirement. On demand.

2310 GERMAN CONVERSATION AND COMPOSITION I Basic review with practice in listening and reading comprehension and in oral and written communication. Discussion/lecture. Prerequisite: GERM 1320 and appropriate placement examination score, or consent of chair. Fall, spring.

2320 GERMAN CONVERSATION AND COMPOSITION II Continued practice in comprehension and communication skills with additional emphasis on active use of reading and writing skills. Also fulfills humanities area elective in general education. Discussion/lecture. Prerequisite: GERM 2310 or consent of chair. Fall, spring.

2330 BUSINESS GERMAN Special applications of German to the business environment. Emphasis on a broad range of topics related to the needs of people working with or living in the German business community. Discussion/lecture. On demand.

2340 INTENSIVE ORAL PRACTICE ABROAD IN GERMAN Intensive practice in speaking German. Students must receive a minimum of 45 hours of classroom instruction, which may be supplemented by field experiences. Students must study in a program approved by the chair of the Department of World Languages, Literatures, and Cultures. German 2340 cannot be counted toward the minor in German, nor can it be used to fulfill the three credit hours required at the intermediate level for the B.A. foreign language requirement. Prerequisite: GERM 1320. On demand.

3160, 3260 PRACTICUM Designed to enhance communication skills and cultural knowledge through participation in authentic language experiences. May be repeated for 6 hours, but a maximum of 3 hours may be applied to the minor program. Prerequisite: GERM 2310 or consent of chair. On demand.

3300 ADVANCED COMPOSITION AND CONVERSATION I Intensive practice in writing and speaking

idiomatic German, including business and social correspondence. Discussion/lecture. Prerequisite: GERM 2320 or consent of chair. On demand.

3303 ADVANCED COMPOSITION AND CONVERSATION II Continued practice in writing and speaking idiomatic German, including business and social correspondence. Discussion/lecture. Prerequisite: GERM 2320 or consent of chair. On demand.

3312 GERMAN CIV d54 0.45352 refrma.V5.D.45077on/r7 -1.5 Tr25 0.45Lveydemahisf190.199 84.18 061.7 0

3303 ADVANCED COMPOSITION AND CONVERSATION II Continued practice in writing and speaking

broad range of topics related to the needs of people working or living in the Spanish business community. Discussion/lecture. Prerequisite: SPAN 2310 or consent of chair. On demand.

2340 INTENSIVE ORAL PRACTICE ABROAD IN SPANISH Intensive practice in speaking Spanish. Student must receive a minimum of 45 hours of classroom instruction, which may be supplemented by field experiences. Students must study in a program approved by the chair of the Department of World Languages, Literatures, and Cultures. Spanish 2340 cannot be counted toward the major or minor in Spanish, nor can it be used to fulfill three credit hours at the 2000 (intermediate) level for the B.A. foreign language requirement. Prerequisite: SPAN 1320. On demand.

3160, 3260 PRACTICUM IN SPANISH Designed to enhance communication skills and cultural knowledge

1441 PRINCIPLES OF BIOLOGY II A core course for majors. This course introduces students to the evolution, diversity, anatomy, physiology, ecology, and behavior of organisms. Lecture and laboratory. Prerequisite: BIOL 1440 (C or better). Fall, spring, summer.

2405 HUMAN ANATOMY AND PHYSIOLOGY A course primarily for health science majors. This course involves systematic study of body structure and function with an emphasis on homeostasis in the human body as a whole. Lecture and laboratory. Prerequisite: BIOL 1400 or 1440. Not open to those who have passed BIOL 2407. Fall, spring, summer.

2406 STRUCTURE AND FUNCTION OF THE HUMAN BODY I A course primarily for health science majors. This course involves a study of structure-function relationships in the skeletal, muscular, nervous, and integumentary systems. Lecture and laboratory. Prerequisites: BIOL 1400 or 1440 and CHEM 1402 or 1450. Fall, spring, summer.

2407 STRUCTURE AND FUNCTION OF THE HUMAN BODY II A course primarily for health science majors. This course is a continuation of BIOL 2406 and covers the endocrine, cardiovascular, respiratory, digestive, excretory, and reproductive systems. Laboratory emphasis on physiologic testing of students. Lecture and laboratory. Prerequisite: BIOL 2406 (C or better). Fall, spring, summer.

2411 MICROBIOLOGY IN HUMAN AFFAIRS A course primarily for health science majors. This course introduces basic concepts of bacteriology, virology, immunology, pathogenic microbiology, and food microbiology. Lecture and laboratory. Prerequisite: BIOL 1400 or 1440. Fall, spring, summer.

4460 ANIMAL PHYSIOLOGY of data using living material. Lecture and laboratory. MATH 2418 (or equivalent statistics course). Spring. PHYSIOLOGY equivalent statistics course. On demand. PHYSIOLOGY
4404 PLANT TAXONOMY An elective course for biology majors. This course involves the identification, nomenclature, and classification of vascular plants, dealing mainly with Arkansas flora. Laboratory exercises have strong field orientation. Lecture and laboratory. Prerequisite: BIOL 2490 (C or better). Fall.

Prerequisite: BIOL 1448 (C or better), MATH 2418 (or equivalent statistics course). Fall, alternate years.

Prerequisite: Consent of instructor. Fall, spring.

1400 CHEMISTRY IN SOCIETY Study of chemistry for general education with emphasis of learning chemical principles on a need-to-know basis to address societal-technological issues such as environmental problems, energy uses, drugs, polymers, nutrition, and genetic engineering. Small-group work, laboratory instruction, and the worldwide web are all used. Critical thinking and problem-solving skills are emphasized. Three hours of lecture and 2 hours of laboratory per week. CHEM 1400 does not count towards a major or minor in chemistry, a minor in physical science, a major in general science, or a minor in physical science. No prerequisite. Fall, spring.

1402 PHYSIOLOGICAL CHEMISTRY I A required course for BS in Nursing and other allied-health baccalaureate degrees. General chemistry topics related to physiology and other health-related sciences. Lecture, small-group work, and laboratory instruction are used. Three hours of lecture and 2 hours of laboratory per week. Prerequisite: grade of C or better in high school chemistry or CHEM 1301. Fall, spring, summer I.

1450 COLLEGE CHEMISTRY I A required course for chemistry and biology majors, the biological and chemical physics tracks, and pre-pharmacy, pre-medicine, pre-dental, and pre-veterinarian study. Recommended for pre-physical therapy. Principles of general chemistry with emphasis on their theoretical and quantitative aspects and applications. Lecture, small-group work, and laboratory instruction are used. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: C grade or better in high school chemistry (full-year course or equivalent) and 2 units of high school algebra, or C grade or better in CHEM 1301. Fall, spring, summer I.

1451 COLLEGE CHEMISTRY II Continuation of College Chemistry I. Lecture, small-group work, and laboratory instruction are used. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: grade of C or better in CHEM 1450. Fall, spring, summer II.

2101, 2201 UNDERGRADUATE RESEARCH Research collaboration with a chemistry faculty member. Open to sophomores. Prerequisite: CHEM 1451. Fall, spring.

2401 ORGANIC CHEMISTRY I Required for a chemistry major and for many health-profession areas including pre-dentistry, pre-medicine, and pre-pharmacy. Focuses on structure, physical properties, reactivity patterns, and stereochemistry of hydrocarbons and halogenated hydrocarbons. Introduces students to the design of multi-step syntheses and the use of reaction mechanisms to explain chemical behavior. In the laboratory, students learn basic microscale and macroscale laboratory techniques and develop scientific reasoning skills. Laboratory experiments are chosen that clarify and demonstrate the basic chemical principles encountered in lecture. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 1451. Fall, Summer I.

2450 PHYSIOLOGICAL CHEMISTRY II Continuation of CHEM 1402; a required course for BS in Nursing and other allied-health baccalaureate degrees. Organic and biochemistry topics related to physiology and the health-related sciences. Introduction to the structural formulas and reactions of organic molecules followed by the chemistry of biological substances, including their metabolism. Lecture, small-group work, and laboratory instruction are used. Three hours of lecture and 2 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 1402. Fall, spring, summer II.

3101, 3201 UNDERGRADUATE RESEARCH Research collaboration with a chemistry faculty member. Open to juniors. Prerequisite: CHEM 3411. Fall, spring.

3150 ADVANCED INORGANIC LABORATORY Required course for the ACS-certified BS degree and an elective in the non-ACS certified chemistry BS degree. Draws from and complements topics covered in CHEM 4380. Focuses on experimental methods common to inorganic chemistry, including inert atmosphere

syntheses, specific characterization techniques, and affiliated instrumentation. Some attention given to experiments in computational chemistry and in materials science. Three hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 3411, 3520; co-requisite 4380. Fall.

3211 ORGANIC SPECTROSCOPY Required for a chemistry major. Students are introduced to modern methods of molecular structure determination including mass spectroscopy, infrared spectroscopy, and NMR spectroscopy. Students gain practice in the integration of diverse experimental information toward the correct identification of molecular structures. Two hours of lecture per week. Corequisite: CHEM 3411. Prerequisite: Grade of C or better in CHEM 2401. Spring.

3300 PRINCIPLES OF BIOCHEMISTRY Survey of concepts in biochemistry including structure and metabolism of biological molecules with applications to nutrition and clinical problems. Three hours of lecture per week. CHEM 3300 *or* CHEM 4320 required for the non-ACS certified major. CHEM 3300 does not count towards a chemistry minor. Prerequisite: Grade of C or better in CHEM 3411. Fall, spring.

3350 METABOLIC BIOCHEMISTRY A required cognate course for the BS in Family and Consumer Sciences-dietetics specialization, this course builds on the biochemical foundation developed in CHEM 2450 Physiological Chemistry II and focuses primarily on topics related to nutrition and metabolism. CHEM 3350 covers metabolic processes relevant to digestion/absorption, bioenergetics, and ATP production. Clinical aspects (e.g., case studies, diseases, medical tests) of metabolic processes will also be emphasized throughout the course. Prerequisites: CHEM 2450 with a C grade or better. Fall, spring.

3360 INTERMEDIATE INORGANIC CHEMISTRY Extension of principles of chemical structure, periodicity, and applications of inorganic systems to industrial, environmental, and biochemical processes. Three hours of lecture per week. Counts towards the non-ACS chemistry major or a general science major; does not count towards an ACS-certified chemistry major. Prerequisite: Grade of C or better in CHEM 1451. Fall.

3411 ORGANIC CHEMISTRY II Continuation of CHEM 2401. An introduction to the chemistry of common organic functional groups including aromatics, alcohols, ethers, carbonyl compounds, and amines. Both the lecture and laboratory portions of the course emphasize fundamental concepts related to molecular reactivity, multi-step synthesis design, and structure determination using both classical methods and modern spectroscopic methods. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 2401. Spring, summer II.

3520 QUANTITATIVE ANALYSIS Theory and practice of gravimetric, volumetric, and instrumental methods of quantitative analysis. The laboratory develops problem-solving and analytical techniques for the proper analysis of a variety of analytes in a biochemical matrix. Three hours of lecture and 6 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 1451. Fall, spring.

4100, 4200, 4300 SPECIAL PROBLEMS IN CHEMISTRY Used in special cases for upper-division students. Fall, spring.

4101, 4201 SENIOR RESEARCH Original investigation of an assigned laboratory problem. Prerequisite: 3 years of chemistry. Fall, spring.

4112 SEMINAR Formal presentation and discussions of current topics in chemistry by faculty and upper-division chemistry students. One hour of lecture per week. Prerequisite: CHEM 4290. Spring.

4121 BIOCHEMISTRY LABORATORY A laboratory course in modern biochemical techniques investigating proteins, nucleic acids, carbohydrates, and lipids. Four hours of laboratory per week. Prerequisite: CHEM 3411; pre- or corequisite: CHEM 4320. Fall, spring.

4152 ENVIRONMENTAL CHEMISTRY LABORATORY Upper-division elective for chemistry majors and

minors and a required course for those in the biology and chemistry tracks of the environmental science program. Uses a laboratory format emphasizing sampling, analysis, and data reduction techniques for multicomponent environmental samples. Three hours of laboratory per week. Pre- or corequisite: CHEM 4351. Spring.

4290 CHEMICAL LITERATURE Required upper-division course for chemistry majors. Use of chemistry abstracts, journals, references and electronic information and data retrieval. Seminar presentations. Two hours of lecture per week. Prerequisite: CHEM 3411. Fall.

4301 LABORATORY MANAGEMENT Provides school science teachers with skills needed to integrate laboratory experiments efficiently and safely into the science curriculum. Major topics include evaluation of facilities, selection of experiments, teaching strategies, record keeping, ordering supplies, and laboratory safety. Three hours of lecture per week. Does not count towards a major or minor in chemistry, a major in general science, or a minor in physical science. As needed.

4320 BIOCHEMISTRY I Required course for the ACS-certified chemistry BS degree (CHEM 4320 or CHEM 3300 is required for the non-ACS certified chemistry BS degree). A survey of the structure and functions of important classes of biomolecules. Metabolism, processing of genetic information, and current topics in biochemistry will be addressed. Three hours of lecture per week. Prerequisite: Grade of C or better in CHEM 3411. Fall, spring.

4335 BIOCHEMISTRY II Continuation of CHEM 4320. Three hours of lecture per week. Prerequisite: Grade of C or better in CHEM 4320. Spring.

4351 ENVIRONMENTAL CHEMISTRY An upper-division elective for chemistry majors and minors and a required course for those in the biology and chemistry tracks of the Environmental Science program. The course explores the chemistry of the environment with particular emphasis on the atmosphere, hydrosphere, lithosphere, biosphere, and energy. Discussion/lecture. Three hours of lecture per week. Prerequisites: Grade of C or better in CHEM 3411 and CHEM 3520. Spring.

4380 ADVANCED INORGANIC CHEMISTRY Required course for the ACS-certified chemistry BS degree and an elective in the non-ACS certified chemistry BS degree. Emphasis on the periodic properties of the elements and how these derive from modern atomic theory. Uses modern theories of chemical bonding, including molecular orbital theory and symmetry, to outline the systematic chemistry of the transition metals as well as representative main group elements. Introduction to organometallic compounds and their catalysis of important organic transformations. Emphasizes current primary inorganic literature sources. Three hours of lecture per week. Prerequisite: Grade of C or better in CHEM 4450. Fall.

4385 TOPICS IN ADVANCED CHEMISTRY An elective upper-division course for both the ACS-certified BS degree and the non-ACS certified chemistry BS degree. Advanced topics in chemistry based on the quantum mechanical and other concepts of modern physical chemistry. Three hours of lecture per week. Prerequisite: CHEM 4460. As needed.

4450 PHYSICAL CHEMISTRY I Required upper-division course for chemistry majors. Modern theoretical chemistry with laboratory applications. Serves as a prerequisite class for advanced chemistry courses. Designed to challenge students to think of chemistry primarily from a molecular and mathematical basis. Topics covered are predominately those relating to quantum chemistry, spectroscopy, and chemical kinetics. Significant amount of computer simulation using modern mathematical software. Three hours of lecture and three hours of laboratory per week. Prerequisites: Grade of C or better in CHEM 1451, PHYS 1442, and MATH 2561. Spring.

4451 ADVANCED ANALYTICAL CHEMISTRY An upper division elective course for both the ACS-certified BS degree and the non-ACS certified chemistry BS degree. This course focuses on instrumentation used in

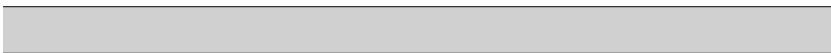
modern chemical analysis for a variety of techniques. Operational theory is a major component of lecture portion of the course. Emphasis is placed on physical phenomena that are probed or manipulated in each technique and their relationships to instrumental optimization. Laboratory experiments illustrate principles of electronics, data acquisition, experimental theory, and specific operation details for each method. Two hours of lecture and 6 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 3520. Spring.



1350 INTRODUCTION TO PROGRAMMING II An advanced computer programming course for non-majors in a high-level language, Topics include the use of fundamental data structures and software tools in developing applications. Spring

1470 COMPUTER SCIENCE I An introductory course for computer science majors and minors with emphasis on development of programming. Topics include programming in an imperative language, data types, arrays, and pointers.

OOP paradigm. Prerequisite: CSCI 1470 (1. Fall, 1.5 credits)



series, conics, parametric equations, polar coordinates, vectors, and vector functions. This course is a prerequisite for Calculus III and most of the upper division mathematics courses. Lecture format.

Prerequisite: C or better in MATH 1591 Fall, spring.

2125, 2225, 2325 INDEPENDENT STUDY IN MATHEMATICS The student will independently study a mathematical topic with a faculty mentor. Course may be repeated. Prerequisites: MATH 1591 and consent of instructor. On demand.

2311 STATISTICAL METHODS I This course may be used to satisfy the statistics requirement in several degree programs. No credit can be awarded for more than one introductory statistics course. The course introduces the basics of descriptive statistics, probability theory, and statistical inference. The use of appropriate technology is emphasized. Lecture/Activity format. Prerequisite: MATH 1390 or equivalent. Fall, spring, summer.

2320 ADVANCED MATHEMATICAL TOPICS FOR MIDDLE LEVEL TEACHERS This course is a requirement in the middle level mathematics/science education major. The primary goal is to connect middle school mathematics content with advanced mathematics. Topics include the concepts of derivative, integral, Pick's Theorem, Monte Carlo method, rates of change, and partitioning methods. In addition to the mathematics content, the course focuses on instructional methods, strategies, and connections to science topics. Delivery is mainly through discussion and problem solving activities. Prerequisite: MATH 1360 and 1390. Fall.

2330 DISCRETE STRUCTURES This course provides a mathematical foundation for applications in computer science and for the development of more advanced mathematical concepts required for a major in computer science. Topics include sets, relations, functions, induction and recursion, graphs and digraphs, trees and languages, algebraic structures, groups, Boolean algebra, and finite state machines. Lecture and problem-solving activities. Prerequisite: MATH 1591 and CSCI 1470. Fall, spring.

2371 CALCULUS III This course is a continuation of Calculus II and is required of all majors in mathematics, chemistry, and physics. Topics include vector valued functions, partial differentiation, multiple integrals, Green's theorem, and Stokes' theorem. Lecture format. Prerequisite: C or better in MATH 1592. Fall, spring, summer.

3125, 3225, 3325 SPECIAL TOPICS IN MATHEMATICS This course is an elective lecture course that focuses on advanced topics in mathematics not covered in the current curriculum. Topics vary with instructors. Course may be repeated. Prerequisite: MATH 1592 and consent of instructor. On demand.

3311 STATISTICAL METHODS II This course is a further introduction to statistical data analysis, including multiple linear regression, experimental designs, and analysis of variance (ANOVA). Statistical computer software will be used. Prerequisite: MATH 2311 or equivalent and consent of instructor. On demand.

3320 LINEAR ALGEBRA This course is required for all majors in mathematics, physics, and computer science. This course introduces matrix algebra, vector spaces, linear transformations, and Eigenvalues. Optional topics include inner product spaces, solutions to systems of differential equations, and least squares. Lecture format. Prerequisite: MATH 1592 or 2330. Fall, spring, summer.

3331 ORDINARY DIFFERENTIAL EQUATIONS This course is required for applied mathematics majors and is an elective for all other mathematics majors. Topics include linear and nonlinear first order equations, linear second order equations, the Cauchy-Euler equation, and systems of linear first order equations. Applications from the natural sciences and engineering are emphasized. Lecture/computer activities. Prerequisite: MATH 1592. Fall, spring.

3351 NUMBER SYSTEMS FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS This course is a professional development course required for elementary and middle level education majors. A primary goal is to organize mathematical knowledge of the real number system so that teacher candidates connect concepts to processes, learn models for mathematical ideas, and experience the construction of mathematics through problem solving. The primary method of delivery is through activities involving manipulatives and problem solving. Prerequisite: Admission to Teacher Education. Fall, spring, summer.

3360 INTRODUCTION TO ABSTRACT ALGEBRA I Required for majors in mathematics, this course is designed to introduce students to abstract mathematics and provide a foundation for more advanced mathematics. Topics include sets, methods of proof, functions, binary operations, the integers, divisibility, binary relations and partitions, modular arithmetic, groups, subgroups, group homomorphisms, cyclic groups, and cosets. Lecture format. Prerequisite: MATH 1592. Fall.

3362 INTRODUCTION TO ABSTRACT ALGEBRA II This course is required for majors in mathematics. Topics include cosets, normal subgroups, group actions, structure theorems for groups, p-groups, the Sylow theorems, rings, polynomials, roots of polynomials, Kronecker's method of factoring, fields and field extensions, and the automorphism group of a field extension. Lecture format. Prerequisite: MATH 3360. Spring.

3370 MATHEMATICS IN THE SECONDARY SCHOOLS This course is designed for secondary mathematics education majors and minors. The main goal is to review the mathematics curriculum currently taught in secondary schools and the corresponding curricular materials and instructional strategies. Class discussions, presentations, curriculum critiques, and the NCTM standards are central to the course. Prerequisite: Admission to Secondary Teacher Education or the intent to register for MATH 4301 in the subsequent semester. Spring.

4125, 4225, 4325 UNDERGRADUATE RESEARCH IN MATHEMATICS The student will engage in mathematical research under the supervision of a faculty mentor. Course may be repeated. Prerequisites: MATH 2371 and consent of instructor. On demand.

4301 SECONDARY MATHEMATICS METHODS This course is required for majors and minors in mathematics education who plan to seek teacher licensure. Topics include innovative curricula for secondary mathematics topics, NCTM standards, planning and organization in the classroom, strategies, methods, materials, technology, and other topics related to teaching and learning mathematics. Class discussions, presentations, and papers such as summaries and critiques are central to the course. Prerequisite: MATH 2371, 3370. Fall.

4305 APPLIED MATHEMATICS I This course is required for majors in applied mathematics and serves as an elective course for mathematics majors. The topics include ordinary and partial differential equations, Fourier series, and numerical analysis with modeling applications in physics, biology, and other sciences. Lectures, computer labs, and projects are central to the course. Prerequisite: MATH 1191, 3320, 3331. Fall.

4306 APPLIED MATHEMATICS II This course is required for majors in applied mathematics and serves as an elective course for mathematics majors. This project-oriented continuation of MATH 4305 applies differential equations and other methods to solve realistic problems from science, business, and industry. Lectures, computer labs, and projects. Prerequisite: MATH 4305. Spring.

4310 TOPICS IN MATHEMATICS FOR ELEMENTARY AND MIDDLE LEVEL TEACHERS This course is a professional development course required for elementary and middle level preservice teachers. Mathematical topics include geometry, probability, statistics, measurement, NCTM standards, and technology. Class discussions, presentations, article critiques, discovery and cooperative learning are central to the course. Prerequisite: C or better in MATH 3351 or equivalent. Fall, spring, summer.

seminars is required. Prerequisites: Admission to the Internship and completion of all professional education courses. Required Corequisite: MATH 4680. Spring.

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Physics and Astronomy

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[1] Courses in Physics (PHYS)

1400 PHYSICAL SCIENCE FOR GENERAL EDUCATION Part of the general education program. Introduces the student to the principles of elementary physics, chemistry, and astronomy. Lecture and laboratory. Fall, spring, summer.

1401 DESCRIPTIVE ASTRONOMY Part of the general education program. An introduction to the changing appearance of the night sky, to the solar system, and to the stars. Lecture and laboratory. Fall, spring, summer.

1405 APPLIED PHYSICS For health science students. Introduces the student to forces, energy, fluids, sound, heat, light, electricity, and radioactivity, with applications to the health sciences. (Not open to students who have completed PHYS 1410 or 1441 unless specifically required for major. May not be applied toward a major or minor together with PHYS 1410, 1420, 1441, or 1442.) Lecture and laboratory. Prerequisite: High school or college algebra. Spring.

1410 COLLEGE PHYSICS 1 For biology, health science, pre-medical, pre-dental, and other students needing a basic introduction to physics. Forms a two-semester sequence with College Physics 2. Introduces the student to mechanics (kinematics, force, work, energy, momentum, rotational motion, elasticity), fluids, heat, and thermodynamics, mechanical waves, and sound. Lecture and laboratory. Prerequisite: High school trigonometry and grade of C or better in MATH 1390 or equivalent. Fall, spring, summer.

1420 COLLEGE PHYSICS 2 Continuation of College Physics 1. Introduces the student to electricity, magnetism, light, and selected topics in modern physics. Lecture and laboratory. Prerequisite: PHYS 1410. Fall, spring, summer.

2311 STATICS For pre-engineering students. A study of stresses, strains, and equilibrium in a plane and in space; analysis of structures, friction, centroids, and moments of inertia. Problem oriented with applications emphasized. Lecture. Prerequisite: PHYS 1441. Co- or prerequisite: MATH 1592.

2411 COLLEGE ASTRONOMY A lower division elective intended for science majors and minors. An introduction to astronomy, including light and other radiation, celestial mechanics, stellar structure and evolution, galaxies, and cosmology. Lecture and Laboratory. Prerequisites: High school trigonometry and a grade of C or better in MATH 1390 or equivalent. Spring.

2421 OBSERVATIONAL ASTRONOMY A lower-division elective. Field work with telescopes and other equipment; methods for making celestial observations. Prerequisite: PHYS 1401 or 2411. Fall.

4301

2443 or 2430, and MATH 2371. Spring, even years.

3353 QUANTUM THEORY 1 The physical foundation and mathematics of quantum theory; matrix and operator formalisms. Lecture. Prerequisites: PHYS 2443 or 2430, 3341. Fall, even years.

3354 QUANTUM THEORY 2 Continuation of PHYS 3353. Approximation methods, perturbation theory, and





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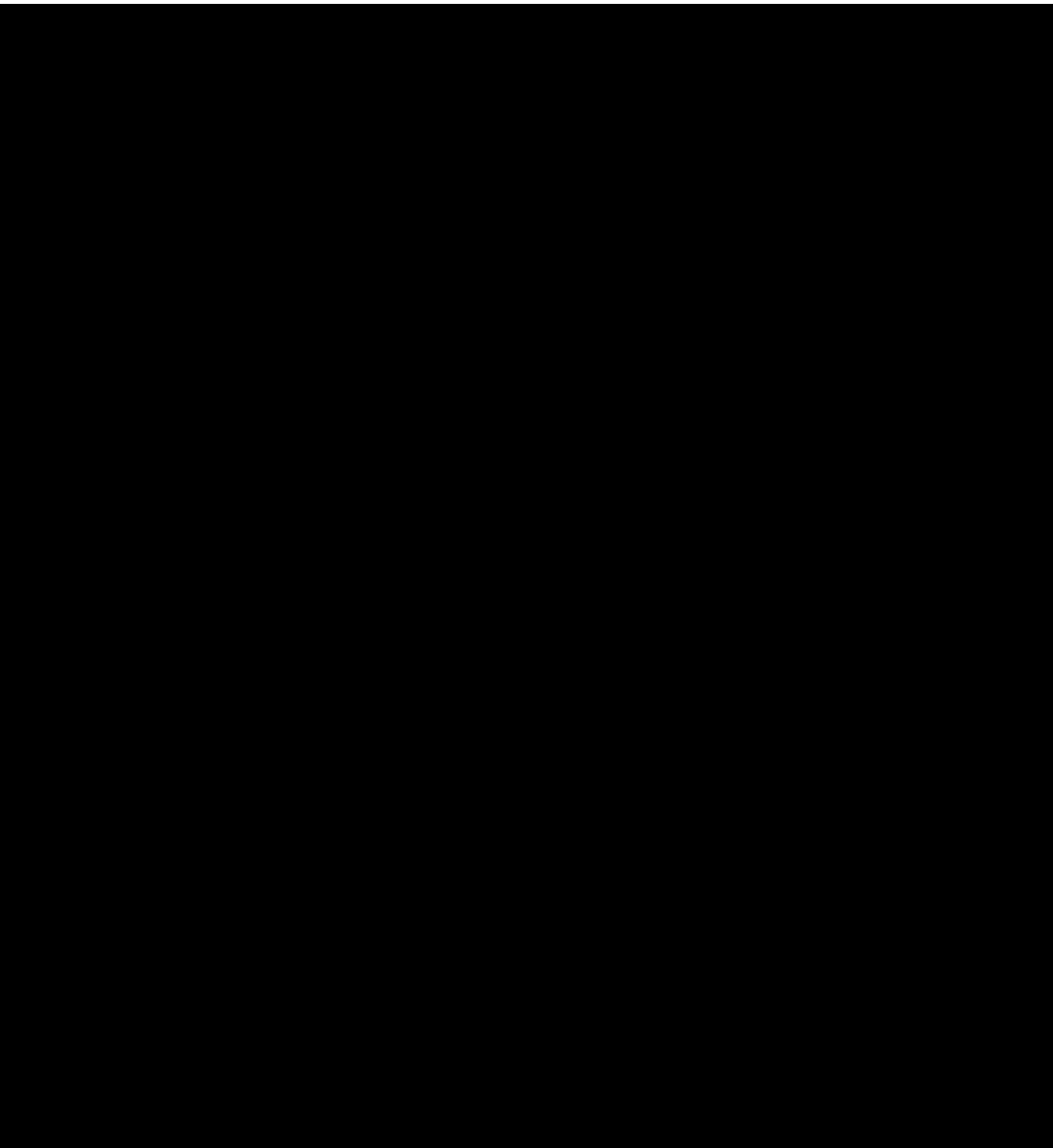
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