



UNIVERSITY OF CENTRAL ARKANSAS

Conway, Arkansas

UNDERGRADUATE BULLETIN

Biennial Catalog Issue
2000-2002

ACCREDITATION

The University is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools as a bachelor's, master's, specialist's, and doctoral degree granting institution; the National Council for the Accreditation of Teacher Education

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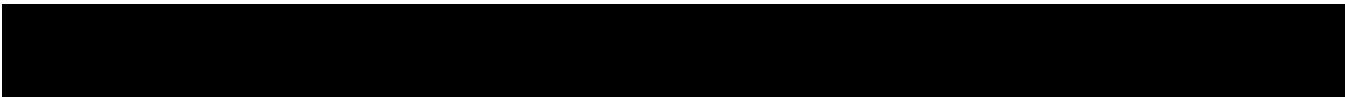
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UCA Main Telephone #: (501) 450-5000
(When calling on-campus dial 4 + the last 4 digits of the number.)

Academic Technologies & Ed. Leadership	450-3177
Accounting	450-3108
Admission, Graduate	450-3124
Admission, Undergraduate	450-3128
Advisor Assignment	450-5149
Alumni Office	450-3114
Art	450-3113



ACADEMIC PROGRAM AND ORGANIZATION

College of Business Administration

- Accounting – BBA
- Business – AAS
- Business Administration – BBA, MBA (through the Graduate School of Management, Leadership, and Administration)
- Economics – BA, BBA, BS
- Economics, International Trade Emphasis – BA, BBA
- Finance – BBA
- Information Systems – BBA
- Insurance and Risk Management – BBA
- International Business – IMBA (through the Graduate School of Management, Leadership, and Administration)
- Management – BBA
- Marketing – BBA

College of Education

- Business and Marketing Education – MSE
- Childhood Education (P–4) – BSE
- Community Service Counseling – MS
- Counseling Psychology – MS
- Educational Leadership – EdS (through the Graduate School of Management, Leadership, and Administration)
- Early Childhood Education – MSE
- Elementary Education, Gifted Education Emphasis – MSE
- Elementary School Leadership – MSE (through the Graduate School of Management, Leadership, and Administration)
- Elementary School Counseling – MS
- Library Media and Information Technology – MS
- Middle Level Education (4–8) – BSE
- Professional Education Studies for MSE in Spanish
- Psychology – BA, BS
- Reading – MSE
- School Psychology – MS, PhD (NCA approval pending at press time)
- Secondary School Leadership – MSE (through the Graduate School of Management, Leadership, and Administration)
- Secondary School Counseling – MS
- Special Education – MSE
 - Early Childhood Special Education
 - Mildly Handicapped K–12
 - Moderately/Profoundly Handicapped K–12
 - Seriously Emotionally Disturbed K–12

College of Fine Arts and Communication

- Art – BA, BFA
- Mass Communication – BA, BS
- Music – BM, MM
- Speech and Theatre – BA, BS
- Writing – BA

College of Health and Applied Sciences

- Athletic Training – BS
- Child Care Management – AAS
- Family and Consumer Sciences – BS, MS
- Family and Consumer Sciences Education – BSE*
- Health Education – BS, BSE*, MS
- Health Sciences – BS
- Health Systems – MS
- Interior Design – BS
- Kinesiology – BS, MS
- Kinesiology and Physical Education – BSE*
- Medical Technology – BS
- Military Science (minor)
- Nuclear Medicine Technology – BS
- Nursing – BSN, MSN
- Nutrition/Dietetics – BS, MS
- Occupational Therapy – MS
- Physical Therapist Assisting – AAS
- Physical Therapy – MS, DPT, PhD
- Radiography – BS
- Speech-Language Pathology – BS, MS

College of Liberal Arts

- English – BA, BSE*, MA
- French – BA
- Geographic Information Science (minor)
- Geography – BA, BS
- German (minor)
- History – BA, BS, MA
- Philosophy – BA, BS
- Political Science – BA, BS
- Public Administration – BS
- Social Studies, History Emphasis – BSE*
- Sociology – BA, BS
- Spanish – BA, MSE

College of Natural Sciences and Mathematics

- Biology – BS, MS
- Chemistry – BS
- Computer Sciences – BS
- General Science – BS
- Mathematics – BA, BS, BSE*, MA
- Physics – BS

Graduate School of Management, Leadership, and Administration

- Business Administration – MBA
- International Business Administration – IMBA
- Educational Leadership – EdS
- Elementary School Leadership – MSE
- Secondary School Leadership – MSE

University College

- General Studies – AA

Interdisciplinary Programs

- Asian Studies (minor)
- Environmental Science – BS
- General Studies – AA
- Latin American Studies (minor)
- Religious Studies – BA
- Southern and Arkansas Studies (minor)

Pre-Professional Training

- Pre-Cardio Respiratory Care
- Pre-Dentistry
- Pre-Dental Hygiene
- Pre-Engineering
- Pre-Law
- Pre-Medicine
- Pre-Optometry
- Pre-Pharmacy
- Pre-Veterinary

* *Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Curriculum and Instruction (450-3172) or the Director of Professional Field Services (450-3131).*

Honors at UCA

See Recognition of Academic Achievement (p. 14).

Torreyson Library

To meet its primary goal of providing resources and services for students and faculty, Torreyson Library makes available 666,841 printed volumes, 866,559 microforms, and a subscription list of approximately 9,000 copyrighted electronic books from NetLibrary. An on-line interlibrary loan service gives access to about 24 million items in more than 1000 libraries. Torreyson Library subscribes to approximately 2600 periodical titles. Other on-line services give access to an additional 500 databases. The UCA Archives and Special Collections contains manuscripts, books, photos, and individual works by Arkansas authors. The library also houses the children's literature collection and serves as a United States Government Documents Depository. There are thirteen librarians on the Torreyson Library staff who hold graduate degrees from ten accredited library schools.

ADMISSION TO THE UNIVERSITY

The Office of Admissions at the University of Central Arkansas serves as the contact for all new domestic undergraduate students to the university. Interested students are introduced to the university through university and career-day activities, visits to various high schools, and tours of the UCA campus. The office also processes all domestic undergraduate applications for admission and notifies students of their admission status.

Inquiries about admission to undergraduate study at the university should be addressed to the Admissions Office. This office receives and processes all applications and issues letters of admission to qualified applicants.

All materials submitted for admission become the property of the university.

Falsification of any record, including the Application for Admission, is cause for immediate dismissal.

FIRST-TIME FRESHMAN ADMISSION

The University of Central Arkansas welcomes all applications for admission. Entering freshman applications are evaluated on the basis of academic achievement, as evidenced by high school grade point average, standardized test scores (ACT or SAT), and rank in high school graduating class. The number of entering freshmen may be limited by the resources available to the university to provide quality academic programs according to standards established by the Board of Trustees.

A first-time freshman is defined as any student who has not previously enrolled in college or university.

READMISSION FOR FORMER UCA STUDENTS NOT CURRENTLY ENROLLED

Readmission for former UCA students who have not been in attendance for one semester is required. An application for readmission form may be obtained from the Office of the Registrar and should be returned to that office with all required information. An official transcript of all colleges and/or universities attended since the last enrollment at UCA must be sent directly to the Office of the Registrar by the appropriate institutional official (e.g., registrar).

COLLEGE PREPARATION CORE

Act 1290 (1997 General Assembly of the State of Arkansas) states that anyone who graduates from an Arkansas high school after May 1, 1999, must complete the college core curriculum in order to qualify for unconditional admission to public colleges and universities. This

is in addition to any other requirement(s) for unconditional admission established by an individual institution. Students must successfully complete the required hours of core academic subjects (2.0 GPA) and any remedial course work within the first 30 semester hours.

EARLY ADMISSION

Full-Time

The student who desires to accelerate a formal education may apply for admission to the university at the end of the junior year in high school.

In addition to regular admission criteria, a student seeking early admission will have completed a minimum of six semesters of secondary school work, earned a B or better average, have an ACT composite score of at least 25, or equivalent scores on the SAT or ASSET exams, and be recommended by the high school principal.

Part-Time, Concurrent with High School Enrollment

Act 57 of the 1983 Extraordinary Session of the Legislature provides that qualified students enrolled in high school may be admitted concurrently as part-time students at the university. The criteria for admission under this program are as follows:

- I. Recommendation by the high school principal.
- II. Satisfaction of the requirements under either A or B below:
 - A. Presentation of standardized test scores and high school grades.
 1. A score on the portion of the ACT, PSAT, or SAT in the subject matter area of the course(s) at the 80th percentile on national norms. (If the subject matter area is not related to a portion of one of these tests, the composite score at the 80th percentile is to be used.) **AND**
 2. High school grades of either:
 - a. A grade point average of 3.5 (on a 4-point system) in high school courses in the subject matter. For ninth grade students, courses in the previous two school years shall be included.
 - b. An overall grade point of 3.5 (on a 4-point system). For ninth grade students, courses in the previous two school years shall be included.
 - B. Individual evaluation based on other performance criteria.

A student who does not meet the above standards may be recommended by the high school principal for admission to selected courses based upon other performance criteria, e.g., music, art, etc. Such criteria will be performance based, appropriate for the desired course, and demonstrable to the university. To be admitted under this category, a student will need the recommendation of the appropriate university department and the Dean of Undergraduate Studies.

The university will review the admission and enrollment of each high school student each semester.

The university accepts transfer work from other institutions taken when the student was concurrently enrolled in high school, so long as the student met the criteria at the time the work was taken.

SUMMER STUDY FOR HIGH SCHOOL STUDENTS

A student between the junior and senior year in high school is eligible to apply to attend summer school at the University of Central Arkansas. This special program provides an opportunity for the capable student to find rewarding learning experiences and benefit from an early start in the college career. Once admitted, such a student attends regular college courses and earns college credit applicable to a degree.

Upon the successful completion of the special summer program, the student may elect to return to high school for the senior year, or apply for the early admissions plan that substitutes the freshman year in college for the fourth year in secondary school. All of the requirements of the early admissions program need to be satisfied before the student is admitted early.

In addition to regular admission criteria, admission to the summer program is predicated upon the following special requirements: completion of six semesters of secondary school work; a grade average of B; and recommendation of the high school principal or counselor.

ADMISSION ON AN ADULT-SPECIAL BASIS

The adult-special classification applies to persons over twenty-one years of age who desire to take undergraduate courses for no credit. The adult-special classification approval for participation requires the consent of the instructor before the student is admitted. Satisfactory completion of the course is recorded on a permanent record maintained by the university, but no grades are issued. The adult-special student pays full registration fees.

ADMISSION AS A TRANSFER STUDENT

A student who has attended another college or university and has never attended UCA must apply for admission as a transfer student and will not be considered a first-time freshman, even though no credits were earned at the previous institution. Falsification of any record, including the Application for Admission, is cause for immediate dismissal.

An official transcript must be sent directly to the Office of Admissions by the appropriate institutional official (e.g., registrar). For placement in college writing and mathematics, ACT, SAT, or ASSET scores are required. All requirements related to the Arkansas Assessment of General Education must be met when applicable.

A transfer student is required to have at least a 2.0 cumulative GPA on all previous course work attempted at previous institutions. After enrollment at UCA, the GPA accumulated in residence at the university shall be the cumulative grade point average.

TRANSFER OF CREDIT

Only credits with A, B, and C grades are transferable. Students entering the university who have attended a college or university accredited by an appropriate regional accrediting agency, such as the North Central Association of Colleges and Schools, will receive credit on an evaluation of a transcript of their records submitted. Transfer credit is designated by the level on which it is earned.

Anyone transferring to the university will be required to earn at least fifteen hours credit in the major and nine hours credit in the minor in residence prior to graduation. This regulation is binding even though the student has sufficient hours of credit otherwise to meet requirements of the major and minor. All standards with respect to transfer credit are binding and are not, therefore, subject to appeal.

There is no limit on the number of credit hours that may be transferred to the university; however, a maximum of sixty semester hours (exclusive of four activity hours in physical education transferred from a two-year institution) may be applicable toward a baccalaureate degree. The equivalent of two full years' work (sixty semester hours) at the senior college level will be required for a baccalaureate degree.

Acceptance of credits and subsequent establishment of standing are provisional until completion of one semester of satisfactory work in residence at UCA.

The university publishes "Transfer Credit Guidelines," which specifies UCA course equivalents for courses taught at each of the Arkansas public community and technical colleges.

ASSOCIATE OF ARTS DEGREE ARTICULATION AGREEMENT

The 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:

1. The Associate of Arts degree must include the following courses:

English Composition (Writing)	6 semester hours
Arts and Humanities	9 semester hours
<i>(including 3 semester hours survey of literature)</i>	

Speech 3 semester hours
College Algebra (or above) 3 semester hours
Natural Science (Lab/Bio/Phys Sci)..... 8 semester hours
Social Sciences 15 semester hours

(must include 3 semester hours of US history or government and 3 semester hours in Western Civilization. The remaining 9 hours must include 3 semester hours in 2 of the following areas: psychology, sociology, economics, geography, political science, or anthropology)

Health/Physical Education 2 semester hours



A student must be officially admitted to the Graduate School before being eligible to enroll in graduate-level courses.

COURSE NUMBERS

The numbering of courses has the following significance:

1. The **first digit** indicates the level of the course:

1000 Courses designed for beginning students

2000 Second-level courses, often in the sequential development of programs representing a higher level of sophistication than the 1000-level courses

3000 Third-level courses open to both sophomores and upper-division students

4000 Courses open only to juniors and seniors

5000 & higher Graduate courses open only to students admitted to graduate-level study

2. The **second digit** indicates the amount of credit. A course numbered 1300 is a freshman course giving three hours of credit.

3. The **last two digits** distinguish a course from others offered by the same department.

CREDIT HOURS AND COURSE LOADS

The unit of credit at the university is the semester hour. A semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester, or a minimum of two hours per week of laboratory work for one semester. Each lecture hour suggests a minimum of two hours preparation on the part of the student.

The minimum number of semester hours per semester for classification as a full-time undergraduate student is twelve. The maximum

College credit on each of the CLEP examinations is awarded as follows:

CLEP Examination	UCA Courses	Hours Credit
English Composition with Essay	WRTG 1310 & 1320 (both or neither)	6
Natural Sciences	BIOL 1400 & PHYS 1400	8
Mathematics	MATH 1360	3
Humanities	ART 2300	3
Social Studies-History	Social Studies	3
Total hours, if all six examinations are passed		23

The general education requirement in history is three hours of world history. This can be satisfied by passing subject examinations in Western Civilization I and/or Western Civilization II. The requirement of one course in American history or US government may be satisfied by passing subject examinations in those areas. It is also possible to earn credit on subject examinations in college algebra, general psychology, and introductory sociology.

Credit is awarded on the basis of DAN TES Subject Standardized Tests in the same subjects where CLEP credit is awarded by UCA. Score requirements for DAN TES credit are the same as those for corresponding CLEP credit.

For more information, contact the Dean of Undergraduate Studies.

Advanced Placement Program

The University of Central Arkansas is a participant in the Advanced Placement Program. A list of participating departments, courses, and the minimum requirements to be met in order to earn credit follows:

Department	Course Credit	Score Basis
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In any discipline (except history) in which Advanced Placement credit is earned, no CLEP credit will be allowed for any course lower than that course for which Advanced Placement credit has been awarded. Should questions arise, contact the Office of the Dean of Undergraduate Studies.

With the approval of the Dean of Undergraduate Studies, entering freshmen with Advanced Placement credit may be allowed to enroll in and earn upper-division credit in the area for which Advanced Placement credit was earned.

Credit by Examination in Foreign Languages

A student who has studied a foreign language in high school may receive university credit under certain conditions. See the Department of Foreign Languages section of the bulletin.

Course Exemptions and Challenge Examinations

University departments may specify appropriate placement, exemption, or challenge examinations for general education requirements or for major or minor requirements. Advanced placement does not excuse a student from taking the total number of hours specified in such programs.

GUIDED STUDY FOR NON-RESIDENCE CREDIT

The university provides the opportunity for a person who cannot be in residence to do work by guided study for non-residence undergraduate credit. No more than one-fourth of the total requirements for a baccalaureate degree may be earned in such a manner. A per-

son interested in taking such course work should contact the Division of Continuing Education for information describing the regulations governing this service.

A student must be a high school graduate or possess the equivalent thereof to be eligible to enroll in guided study courses. High school students who obtain written approval from the appropriate administrative official at their high school may enroll concurrently in guided study courses. Students are not allowed, except by approval of the appropriate dean and registrar, to begin or continue guided study for non-residence credit while taking work in residence at the university. Students must notify the Division of Continuing Education when they are enrolled for residence work at the University of Central Arkansas.

Guided study work will not be counted in lieu of the requirement of one year's work in residence. Where guided courses are to count for credit in the senior year, students should check to ensure that 24 of their final 30 hours will be for residence credit.

A guided study course should be completed within one year from the date of registration. A grace period of one month is allowed for taking the examination if all lessons are submitted within the time limit. If the course is not completed within the one-year limit, the student may renew the course for an additional one year by remitting a renewal fee plus book rental. The maximum extension permitted is two years from the original enrollment.

Credit may be granted for guided study through USAFI or any other military program through an accredited institution of higher education.

ACADEMIC RECORDS

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:

Letter	Grade	GP*
A	Excellent	4
B	Good	3
C	Average	2
D	Passing	1
F	Failure	0
W	Withdrawn	N/A
X	Deferred Credit	N/A
WP	Withdrawn Passing	N/A
WF	Withdrawn Failing	0
CR/NC	Credit/No Credit	N/A

*GP = Grade Points

N/A: Hours attempted where W, X, CR/NC, and WP are involved are not used in computing the grade point average.

Transitional Studies (UNIV 1300, 1301, and 1340) and Intensive English Program (IEP) courses are not used in computing the cumulative grade point average for earning any degree from the university. All grades, once reported, remain a matter of permanent record. Any appeal or question concerning an assigned grade must be made within one calendar year of the time the grade was awarded, as outlined in the Student Handbook.

To obtain the qualitative index of a student's scholarship, the total number of grade points accumulated is divided by the total number of semester hours attempted to give the ratio known as the grade point average.

EXAMPLE: A student enrolls in four courses (fourteen credit hours) as follows:

Courses	CH*	Grade	CH x Grade	GP
WRITING 1310	3	A	(3 x 4)	12
HISTORY 2301	3	B	(3 x 3)	9
MATH 1591	5	C	(5 x 2)	10
HEALTH & PHY ED	3	B	(3 x 3)	9
TOTAL	14			40

Semester GPA: 40 GP/14 CH = 2.86

* CH = Credit Hours

GRADE FORGIVENESS

A student may repeat in residence a maximum of four courses in which a D, F, or WF grade is earned. Both grades will remain on the permanent record, but only the second grade will be used to calculate the grade point average. This option may be used only once for each course in which a D, F, or WF was received. A student must accept, for purposes of grade forgiveness, the first four courses repeated. No course may be repeated for the purpose of grade forgiveness after a course for which it is a prerequisite has been passed. The grade forgiveness provision is applicable only to students who do not possess a baccalaureate degree.

GRADE AVERAGING

A student has the privilege of repeating a course in residence at UCA in an attempt to improve a grade previously made. All other grades earned previously in the course are used in computing the grade point average, while the grade earned the last time the course is taken is the grade that will be considered as the final grade. No course may be repeated for grade after a course for which it is a prerequisite has been passed.

DEFERRED CREDIT (INCOMPLETE GRADE)

The grade of X is given only if satisfactory completion of the remaining course requirements can result in a passing grade for that semester's work. An X grade is not computed in the grade point average. One calendar year is the maximum time allowed for removal of an X grade except in individual study courses and theses. If one year passes and the X has not been removed, the grade will be changed automatically to an F. An individual instructor may specify a shorter period for removal of an X. The instructor is required to state in writing the requirements for removing the grade of X at the time it is assigned. Failure of the student to meet these requirements may result in the X becoming an F. A student may not re-enroll in a course for which an X is in effect.

ADJUSTMENTS AND CREDENTIALS COMMITTEE

When warranted by special circumstances, a student is entitled to petition the University Adjustments and Credentials Committee for relief of an unfair hardship brought about by academic regulations. The petition form, obtainable in the Office of the Dean of Undergraduate Studies, should be completed with the assistance of the student's advisor. Completed forms, containing all necessary signatures, should be submitted to the Office of the Dean of Undergraduate Studies.

Terms and Conditions

- Under academic clemency an individual forfeits all grades and credits (including transfer) earned prior to the minimum period of non-enrollment, and such grades and credits will not be considered in any academic deliberations from that point forward at UCA.
- Courses on which academic clemency is granted will be recorded on the permanent academic record but will not be used in the computation of the cumulative grade point average. The notation academic clemency granted (date) will be placed on the perma-

Presidential Scholars. A grade point average of 4.0 on a minimum of twelve hours graded undergraduate credit with no X grades qualifies a student for the Presidential Scholars list. The grades of the previous semester only are used in calculating this average.

Dean's List. An average of 3.5 or higher for the previous semester on a minimum of twelve hours graded undergraduate credit with no X grades qualifies a student for the semester's Dean's List.

Ranking Honor Graduate. A top graduating senior may be chosen for spring, summer, and fall commencements. Students are judged on the basis of their cumulative grade point average and the quality of their Departmental Undergraduate Scholars Program or Honors College thesis project. The grade point average computation includes the semester in which the student completes 103 hours of credit.

Outstanding Students. Five senior students are recognized at the Honors Convocation each spring. Nominations come from faculty, the student body, and the administration. These students are expected to be above average scholastically. They should have demonstrated exceptional leadership ability and rendered active service to the university through their activities. Final selections from nominations are made by the Honors Council.

Sophomore and Junior Scholastic Awards. One sophomore and one junior student are recognized at the Honors Convocation for outstanding scholastic achievement.

College Achievement Awards. Six students, one from each of the six colleges, are named for intracollege service and achievement.

Honors Graduates. A student can be recognized as an honor graduate in one of the following categories of praise—summa cum laude, magna cum laude or cum laude. This recognition requires a minimum of 62 hours in residence. Below are the grade point averages used to determine graduation with honors.

Foreign Languages
Geography, Political Science, and Sociology
Health Science
History
Family and Consumer Sciences
Kinesiology and Physical Education
Marketing, Management, and Information Systems
Mathematics
Music
Nursing
Occupational Therapy
Philosophy and Religion
Physical Therapy
Physics and Astronomy
Psychology and Counseling
Speech-Language Pathology
Speech, Theatre, and Mass Communication
Writing and Rhetoric

Honors College

In addition to the Departmental Undergraduate Scholars Program, the university has an Honors College for outstanding students. A student chosen for the Honors Program during the freshman and sophomore years fulfills certain general education requirements in specially designed classes that are interdisciplinary, limited in enrollment, and taught by outstanding faculty. Following the sophomore year, students may enter the Honors College.

The Honors College curriculum consists of a fifteen-hour Honors Interdisciplinary Studies minor. At the center of the curriculum is undergraduate scholarship: the Oxford Tutorial, in which a student works one-on-one with a professor and writes and presents an Honors Col-

lege Thesis Project. The Honors College is for juniors and seniors invited from those students completing the Honors Program.

In addition to special instruction, there is an Honors Center which provides a special place for students to meet and share ideas, and four residence halls, Short/Denney, Wingo, and Baridon, for Honors College Students, housing nearly 350 residents, most in private rooms. The atmosphere and co-curricular programming in the residence halls reinforce the learning and friendships developed through the Honors College. Application to Honors College residence halls is through

Writing

The first-year writing requirement exists so that students can most directly and deeply learn how to explore ideas through writing—everything from discovering topics, to generating material, to making decisive and 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.

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.

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 in the environment, and the development of health beliefs inherent in the culture.

American History and Government

The American history and government requirement seeks to introduce students to the development of American society and the United States. It does so through the study of American people's history, experiences, and 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 processes of American history;
- to be familiar with enduring expressions of American history by studying one or more major American documents;
- to be familiar with the diversity of peoples and cultures that have contributed to the American experience;
- to be familiar with the ways Americans have adapted to and shaped the American environment.

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.

Mathematics

Mathematics provides an approach to problem solving through logic and reasoning. It is used to identify, analyze, and solve problems.

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GENERAL EDUCATION SKILLS OBJECTIVES

Upon completion of the general education program, students will have basic skills in the following areas:

- **Oral Communication:** Students will have the basic skills of speaking necessary to advance to more complex communication tasks in their majors and careers.
- **Written Communication:** Students will have the basic skills of writing necessary to advance to more complex communication tasks in their majors and careers.
- **Thinking:** Students will have the basic skills of thinking necessary to advance to more complex reasoning tasks in their majors and careers. They will be able to develop arguments, identify assumptions, and understand implications.
- **Research:** Students will engage in disciplinary techniques of discovery and be able to identify and use appropriate sources of information.
- **Mathematics:** Students will have achieved basic mathematical competence.
- **Technology:** Students will have the basic technological skills they need to find, access, manage, and communicate information.

GENERAL EDUCATION ATTITUDES AND VALUES OBJECTIVES

Upon completion of the general education program, students will have had the opportunity and encouragement to develop thoughtful perspectives. They will have been exposed to and encouraged to explore both the cultural diversity that defines many human differences and the connections that suggest common human concerns. They will also have been encouraged to explore value-systems and to recognize the roles value-systems play in human life and in the disciplines.

GENERAL EDUCATION COURSE OF STUDY

Writing

6 hours minimum required. Please note that a student must enroll in WRTG 1310 and 1320 during the first two semesters that a student is eligible to enroll in college writing courses, unless the requirement has been previously met. Minimum grade of C required.

WRTG 1310	Introduction to College Writing
WRTG 1320	Academic Writing

Fine Arts

3 hours minimum required.

ART 2300	Art Appreciation
MUS 2300	Music Appreciation
SPTA 2300	Theatre Appreciation

Health Studies

3 hours minimum required.

H ED/KPED 1320	Concepts of Lifetime Health and Fitness
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American History and Government

3 hours minimum required.

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

Humanities

3 hours minimum required.

ENGL 2370	Introduction to Fiction
ENGL 2380	Introduction to Poetry
ENGL 2390	Introduction to Drama
FLAN 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

Mathematics

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

MATH 1360	Math for General Education
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

and 4 hours minimum required:

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. 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.

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.

Two Degrees

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.

Two Majors

A double major may be recorded when all departmental, ancillary, and unique requirements within one 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 and one minor may be recorded.

Assessment

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ogy, 2 courses in chemistry, etc.). General education courses cannot be used to satisfy the additional year of mathematics or science.

Bachelor of Science in Nursing

The requirements for the Bachelor of Science in Nursing are specified in the Department of Nursing section.

Bachelor of Science in Education

Candidates for the BSE degree must complete a major in a certifiable teaching field. Requirements for admission to the teacher education program, admission to directed teaching, licensure, and other requirements are specified in the College of Education section.

Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Curriculum and Instruction (450-3172) or the Director of Professional Field Services (450-3131).

GRADUATE PROGRAMS AND DEGREES

Graduate Dean: Dr. Elaine McNiece

PROGRAMS AND DEGREES

The University of Central Arkansas offers the following graduate degrees and programs:

- Doctor of Philosophy (PhD)
 - Physical Therapy
 - School Psychology
- Doctor of Physical Therapy (DPT)
- Educational Specialist (EdS)
 - Educational Leadership
- Master of Arts (MA)
 - English
 - History
 - Mathematics Education
- Master of Business Administration (MBA)
- International Master of Business Administration (IMBA)
- Master of Science in Education (MSE)
 - Business/Marketing Education
 - Early Childhood Education
 - Elementary Education
 - Elementary Education (emphasis in gifted)
 - Elementary School Leadership
 - Reading
 - Secondary School Leadership
 - Spanish
 - Special Education
 - Early Childhood Special Education
 - Mildly Handicapped K–12
 - Moderately/Profoundly Handicapped K–12
 - Seriously/Emotionally Disturbed K–12
- Master of Science (MS)
 - Biology
 - Community Service Counseling
 - Counseling Psychology

- Elementary School Counseling
- Family and Consumer Sciences
- Health Education
- Health Systems
- Kinesiology and Physical Education
- Library Media and Information Technologies
- Occupational Therapy
- Physical Therapy
- School Psychology
- Secondary School Counseling
- Speech-Language Pathology
- Student Personnel Services in Higher Education
- Master of Science in Nursing (MSN)
- Master of Music (MM)
 - Concentration Areas:
 - Choral Conducting
 - Instrumental Conducting
 - Music Education
 - Performance
 - Theory

For more information about graduate programs and financial assistance for graduate studies, contact the Graduate School: (501) 450-3124.

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 filed 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.

FEES AND FINANCIAL AID

GENERAL INFORMATION

The university is supported chiefly by state appropriations. Student fees constitute only a small percentage of the actual costs of a student's education. 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 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 room and board installments scheduled in approximately 30-day intervals. Registration is incomplete until all financial obligations have been satisfactorily met. 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.

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.

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, Bernard Hall, Room 202.

Withdrawals: Fall and Spring Semesters

Students who officially withdraw from the university may receive a 75% refund of general registration and other mandatory fees if the withdrawal is completed by the third Friday of the semester. Refunds of 100% will not be made if the withdrawal takes place on or after the first day of scheduled classes.

Class Adjustments: Fall and Spring Semesters

Students who drop courses on or after the first day of scheduled classes and on or before the third Friday of classes will be refunded at a rate of 75% of the difference in the cost of the original enrolled classes and the new enrollment. Refunds of less than \$5.00 will not be granted.

Withdrawals: Summer Terms

Students who officially withdraw from the university during a summer term may receive a 75% refund of general registration and other mandatory fees if the withdrawal is completed by the first Friday of the semester. Refunds of 100% will not be made if the withdrawal takes place on or after the first day of scheduled classes.

Class Adjustments: Summer Terms

Students who drop courses on or after the first day of scheduled classes and on or before the 1st Friday of classes will be refunded at a rate of 75% of the difference in the cost of the original enrolled classes and the new enrollment. Refunds of less than \$5.00 will not be granted.

Room and Board Refunds

If a student withdraws from housing before the end of the academic year, the room deposit will be forfeited. Any unused room and board will be refunded. No refund will be made because of absences.

OTHER POLICIES AND CHARGES

Non-Resident Students

A student must be a bona fide resident of Arkansas for at least six consecutive months prior to registration to be classified as an in-state student. Complete regulations and a form for requesting a change in classification for this purpose may be obtained from the Admissions Office.

Identification Card

Student identification cards are issued at the time of registration. A charge of \$5.00 will be made for replacement cards. The ID card is property of the University of Central Arkansas and must be returned upon request.

Late Registration Fee

A late fee will be charged for registration on or after the first day of classes for the university. The schedule of classes for each semester and summer session details specific dates for registration.

Drop/Add Fee

A charge will be imposed for each course dropped or added on or after the first day of classes for the university. The schedule of classes for each semester and summer session details the specific amount

of the drop/add fee. The fee will not be charged for schedule changes requested by the university.

Applied Music Fees

See Department of Music.

Health Science Fees

See major department..

Bowling Fees

ness, industry, government, and education. A new software program called *Crimson Solutions* is used to assist individuals in the job search process.

Students are encouraged to establish a placement file with Career Services before graduation. Placement records—which contain a résumé, letters of recommendation, and transcript (at the individual's request)—are used to assist students and alumni in their job search efforts. Records are kept for a period of five years, after which they must be updated to be reactivated. For more information about Career Services call 450-3134.

Cooperative Education

The Office of Cooperative Education, located in Room 314 Bernard Hall, helps UCA undergraduate students by providing paid skill-based employment off campus that is major - or career-related, and allows students the opportunity to earn academic credit toward graduation. Students are given the opportunity to apply classroom theories to real-world situations, acquire essential practical skills, and gain exposure to the reality of the world of work before graduation.

Students must meet minimum participation criteria, and provide a completed application, résumé, and cover letter to be eligible for the Coop program. The Office of Cooperative Education will help identify opportunities for student employment and pass that information to the applicant pool. Students submit résumés, interview, and are hired by external agencies in their academic or career field.

Cooperative education is an unrivaled plan of education meshing classroom study with paid, planned, supervised work experience for academic credit. For more information call 450-3250.

Copy Center

The UCA Copy Center, located in 007 Bernard Hall, provides a wide range of copying services for UCA departments. Services include one- or two-sided copying, stapling, folding, cutting, collating, binding, reduction/enlargement, and padding. For more information call 450-5199.

Counseling Center

The Counseling Center, located on third floor of Bernard Hall, offers individual and group therapy, educational presentations and workshops, and consultation. Counseling sessions are confidential and free to UCA students, faculty, and staff. The Counseling Center is accredited by the International Association of Counseling Services. For more information call 450-3138.

Disability Support Services

The Office of Disability Support Services is located in the Student Center basement, room 01A. UCA seeks to be in compliance with both the spirit and letter of the law as stated in Section 504 of the Rehabilitation Act, as amended, and the Americans with Disabilities Act. The office's primary goal is to provide access to all programs and reasonable accommodations to qualified students. It is the responsibility of the student to notify the university of any disability or

disabilities. Students who attend UCA and have a disability should register with the Disability Support Services Office to receive information about services. Students are required to provide documentation of disabilities. At the time of initial registration, students should complete a confidential registration form and make an appointment to meet with an office staff member to discuss the program and any accommodations that will be necessary. Academic accommodations may include taping textbooks, enlarging textbook print, reader services, interpreters, use of adaptive technology, and alternative testing procedures. Other services are also arranged, depending upon the student's particular needs.

Health Promotion and Wellness

Health Promotion and Wellness Services is located in 002 Bernard Hall. The main function of this office is to promote healthy behavior through prevention efforts within the university community. Educational events and healthy alternative activities are held each semester and are free to all UCA students, faculty, and staff. These events and activities include Alcohol and Drug Awareness Week, Great American Smoke-Out, World AIDS Day, Volunteer Fair, Health Fair, and Volunteer Day.

Health Promotion and Wellness provides programs on alcohol and other drugs, stress management, sexually transmitted diseases, and other health topics. Although prevention is the main goal, alcohol and drug intervention classes are taught for students who violate the alcohol and drug policies at the university. Students interested in volunteerism can contact this office for volunteer opportunities in the community. For more information call 450-3133.

International Programs

The Office of International Programs coordinates international student matters within the university and acts as a liaison between international students, administrative and departmental offices of the university, agencies of the US government, and private organizations. It processes all international undergraduate applications for admission, notifies students of their admission status, and issues admission documents. In addition, it organizes and coordinates a variety of UCA study abroad programs and supplies students with information about other study abroad opportunities.

The university provides English language training for students who need to increase their English proficiency (see Intensive English Program, p. 130).

International Student Services

The Office of International Programs sponsors a variety of support services for international students. Advisory services are available regarding financial, personal, educational and social issues, health insurance claims, and the requirements of the Immigration and Naturalization Service. Other services and programs include the following:

- A comprehensive orientation program that meets the unique needs of new international students, including airport pick-up, advising, testing, registration, banking, and shopping. The program is de-

signed to complement the new student orientation offered by the university.

- The American Host Program, which introduces international students to area families so that they can experience American culture and family life in the US.
- The Speakers Bureau, which gives students the opportunity to share their culture through presentations to local schools and civic organizations.

Study Abroad

The Office of International Programs encourages all UCA students to include at least one study abroad experience in their university curriculum and offers information and support to any student interested in studying abroad. Students may choose to participate in programs sponsored by UCA, including the UCA-Netherlands Campus in Maastricht, Netherlands, or programs sponsored by other US or foreign institutions. Information is available in the Study Abroad Library

Student Health Services will notify students' instructors of an emergency absence from classes. Students confined to their residence hall room for illness may obtain meal slips for a cafeteria take out meal from the Student Health Services or their Residence Hall Coordinator. Student Health Services is located in 001 Bernard Hall. For more information contact 450-3136.

Student Insurance

The University of Central Arkansas provides information about student medical, dental, and hospitalization insurance. Because health services provided by the university are necessarily limited, students may wish to consider the opportunity to secure protection against unexpected illness or injury expenses. Complete information may be obtained from Student Health Services by calling 450-3136.

Student Organizations and Activities

The university provides students with opportunities for entertainment, participation, and leadership through a diverse program of organizations and activities including student government; Student Activities Board; Greek life; residence hall life; student publications; and departmental, honorary, service/activity, and religious organizations.

Student Government Association

The Student Government Association (SGA) is the representative voice for UCA students. SGA formulates policies, allocates student activity fees to student organizations and university departments, and works closely with administration on issues that directly affect UCA students. SGA meetings are held on Monday evenings in the Student Center and are open to the public. SGA offices are located on the 2nd floor of the Student Center. Students are encouraged to get involved in SGA leadership positions and sponsored activities. For more information call 450-3195.

Student Activities Board

The Student Activities Board (SAB) coordinates entertainment for the campus community. Comedians, movies, lectures, specialty acts, and big-name concerts (such as the Goo Goo Dolls) are just a few of the activities brought to the campus. Most SAB events are funded through a student activity fee and are free to UCA students. The SAB office is located on 2nd Floor of the Student Center. For more information call 450-5873.

Greek Life

Fraternities and sororities are considered an integral part of the campus life. The office is located in the Student Center. For more information call 450-3136.

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ism. The *Echo* office is located in the Student Center, second floor. For more information call 450-3446.

The *Vortex* is a literary magazine published at UCA. The Editorial Board is composed entirely of students. Writing program faculty serve as advisors only. The *Vortex* contains student work in short fiction, poetry, essays, art, and photography. One volume a year is published during the spring term. For more information contact 450-5108.

Departmental Organizations

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

- American Chemical Society
- Art History Association
- Beta Alpha Psi
- Corps of Cadets
- French Club (Le Cercle Francais)
- International Association of Jazz Educators
- Kappa Kappa Psi
- Math Club
- National Art Education Association
- National Student Speech Language and Hearing
- Physical Therapy Club
- Pre-PT-PTA Club
- Public Relations Club
- Student Council for Exceptional Children

Sexual harassment by any faculty member, staff member, or student is a violation of both law and university policy and will not be tolerated at the University of Central Arkansas. Sexual harassment of

the event that individuals involved are unavailable or of other unanticipated occurrences, the Affirmative Action officer, with the concurrence of the president, may adjust the time frames. Any changes will be immediately communicated to the complainant and respondent by the Affirmative Action officer, and, where possible, their needs will be accommodated.

Informal Investigation and Resolution

1. Individuals who believe they have been subjected to sexual harassment (complainant) should report the incident promptly to their immediate supervisor or academic dean or to a departmental supervisor higher up in the chain of command or directly to the Affirmative Action officer, legal counsel, or assistant vice president for human resources.

The person to whom the complaint is made shall immediately contact the Affirmative Action officer, legal counsel, or assistant vice president for human resources. One or more of these administrators will determine the course of the informal investigation and resolution. The department involved and/or the supervisor to whom the complaint was made may be asked to assist in the informal investigation.

2. If, following investigation, an informal resolution of the matter which is satisfactory to the complainant, the person against whom the complaint is made (respondent) and the university (represented by the Affirmative Action officer, legal counsel, or assistant vice president for human resources) is reached, it shall be considered closed and all parties involved shall be so advised in writing by the Affirmative Action officer, legal counsel, or assistant vice president for human resources. If a satisfactory resolution has not been reached within ten (10) working days from the date of the complaint, the complainant, university, or respondent may initiate formal complaint/investigation procedures.

Formal Investigation and Resolution

1. If the sexual harassment complaint has not been resolved through informal procedures and the complainant, university, or respondent wishes to pursue the matter further, he/she must file a written complaint. The written complaint must be filed with the Affirmative Action officer, legal counsel, or assistant vice president for human resources within twenty (20) working days of the termination of the informal procedures. The complainant and respondent shall be entitled to have, at the individual's own expense, an advisor, who may or may not be an attorney, to assist in preparing the formal complaint.

2. The Affirmative Action officer will notify the parties involved of the sexual harassment complaint, provide copies of the complaint and advise the parties of the procedures for a formal investigation and hearing within three (3) working days of receipt of the formal written complaint. The respondent will then be given five (5) working days to respond in writing to the complaint.
3. Within ten (10) working days of receipt of the formal written complaint the Affirmative Action officer shall refer the complaint and the respondent's response, if any, to the Sexual Harassment Complaint Committee.
4. Within five (5) working days of the committee's receipt of the complaint, the committee will meet separately with the complainant and the respondent. The purpose of these preliminary meetings is to inform the committee about the case, to ensure that the complainant and respondent are fully aware of their procedural rights, and to decide upon the nature of the investigation. Throughout the proceedings the respondent and complainant shall have the right to be accompanied by an advisor, who may or may not be an attorney. Attorneys will not be provided at university expense. The legal counsel may be present but shall act only in an advisory capacity to the committee.
5. Within five (5) working days of the conclusion of the committee's preliminary meetings with the complainant and respondent the Sexual Harassment Complaint Committee will hold a formal meeting on the matter. Strict judicial rules of evidence shall not be applied. The committee members may receive any evidence they consider to be relevant.
6. The respondent and complainant, and their advisors, shall have the right to be present at any time testimony is presented and to be provided copies of all evidence considered by the committee. Neither the respondent nor complainant shall have the right to cross-examine witnesses. Advisors shall not have the right to address or question committee members or witnesses.
7. A written record of the minutes of the proceedings and recommendations of the committee shall be presented to the president within five (5) working days of the committee's final meeting.
8. A copy of the minutes and recommendations of the committee shall be presented to both the complainant and the respondent at the time they are forwarded to the president.
9. Within ten (10) working days of receipt of the committee's recommendation, the president shall make a final decision concerning what action, if any, to take including disciplinary action after considering the recommendation of the committee, and will notify the complainant and respondent.



UNIVERSITY POLICE (UCAPD)

COLLEGES, DEPARTMENTS, AND PROGRAMS

Requirements for the Bachelor of Business Administration

The Bachelor of Business Administration (BBA) degree emphasizes professional development based on a general education background of liberal arts and business courses. Degree requirements are divided into five groups: general education, business foundation, business core, major, and electives.

General education. Complete 47 hours of general education courses. (See the university general education requirements, p. 18.) Within the social science courses, it is recommended that business students complete a course in psychology or anthropology. Courses in English, history, humanities, culture and language, government, the sciences, mathematics, and health prepare students with basic speaking, reading, writing, and analytical skills as well as the time management and self-discipline skills needed for advanced study.

Business foundation. Complete 30 hours of freshman and sophomore courses in economics, accounting, statistics, and personal computing to prepare for study in the core functional areas of business and to develop computer skills. ACCT 2310, 2311, 2321, ECON 2310, 2320, 2321, 2330, INFO 2301, 2343, and MATH 1395.

Business core. Complete 18 hours of upper-division (3000-4000 level) courses to provide the student with functional business skills. FINA 3330, INFO 3321*, MGMT 3340, MGMT 3344*, MGMT 4347**, and MKTG 3350. (*Accounting majors take ACCT 3320 in place of INFO 3321 and ACCT 4315 in place of MGMT 3344. **MGMT 4347 must be taken in the student's last semester.)

NOTE: Many of the core classes listed above have prerequisites and all prerequisites must be successfully completed before enrolling in these courses. No exceptions will be made to this policy.

Major. Complete 24 hours of upper-division courses designated by the department administering the major. The information systems major requires an additional 3 or 4 credit hours of lower division courses in computer science. All majors consist of at least one "writing-intensive" and one "computer applications" course.

Electives. Students need to complete the appropriate number of electives to ensure a minimum of 124 credit hours required for graduation. At least 3 credit hours of electives must be taken in courses outside the College of Business Administration. (This policy does not apply to information systems majors: IS majors may take all their electives in the College of Business Administration.)

All BBA students are reminded that

1. graduation requirements include a minimum of 40 hours of upper-division courses; and
2. a minimum of fifty percent (50%) of the degree requirements must be in course work outside the College of Business Administration.

Other Academic Policies and Requirements

In addition to the courses required to earn the BBA degree, the university and college have established policies on the following: minors and second majors, assessment tests, and grade requirements.

Minors. The BBA degree does not require a minor. BBA degree students cannot minor in any field within the College of Business Administration.

Second majors. By completing the major requirements in a second major beyond the minimum 124 credit hour requirements and prior to earning the first degree, students can complete a second business major.

Assessment tests. The university and college reserve the right to require, administer, and apply the results of appropriate assessment tests for the purpose of ensuring the student's basic qualifications to proceed with the desired program of study and/or to earn a degree. Such tests may include, but are not limited to, assessments of (1) personal computing skills, (2) economics knowledge, (3) general education achievement (rising junior exam), and (4) major field achievement.

Grades. Candidates for the BBA degree must satisfy the following minimum grade point average requirements:

1. a 2.0 grade point average overall;
2. a 2.0 grade point average in all courses used in the foundation and core areas; and
3. a 2.0 grade point average in all major courses taken as determined by the department.

Bachelor of Science

nationally and internationally acclaimed for its information and research dealing with small business and entrepreneurship. The center has links with hundreds of universities and serves as an information and research point for many government agencies around the globe.

SBANC's purpose is to provide the following with the necessary resources to further their business and economic efforts and goals: (1) small businesses, (2) government agencies, (3) economic development officers, (4) entrepreneurs, (5) educators, and (6) small business counselors. The focus of the center's activities is the promotion and furtherance of small business and entrepreneurship. This is accomplished through consulting, educating, and training center constituents. These activities are provided locally, statewide, nationally, and internationally for those interested in small business and entrepreneurship using the following methods: (1) electronic linkages, (2) distance learning, (3) seminars, (4) camps, (5) conferences, (6) newsletters, (7) counseling sessions, and (8) research.

The center also provides an international exchange program for student, faculty, and small business. Small business and entrepreneurship exchanges have taken place with the University of Luton (England), Buckinghamshire Chilterns University College (England), University of Teesside (England), Ecole Supérieure de Commerce de St. Etienne (France), The Haagse Hogeschool University of Professional Education (Netherlands), Universidade Do Minho (Portugal), Mikkeli Polytechnic (Finland), Fachhochschule Bielefeld (Germany), University of Manitoba (Canada), University of Victoria (Canada), HES Rotterdam (Netherlands), University de Vic (Spain), and Zurcher Hochschule, University of Applied Sciences (Switzerland).

OFFICE OF INFORMATION TECHNOLOGY

The Office of Information Technology provides support for the instructional, research, and technological needs of the faculty, staff, and students in the College of Business Administration. The office maintains four networked computer labs for instructional and student use.

Visit the CBA website at <http://www.business.uca.edu> to view a listing of other services and facilities that are available in the college.

CO-OP INTERNSHIPS

The College of Business Administration participates in the university's co-op program. Students enrolling for co-op credit can receive aca-

ademic credit and gain valuable work skills and experience. Co-op internships often provide students with the skills, experience, and knowledge that give them an advantage in the job market. Many co-op students return to their co-op employer for a full-time career-track job. Internships can be full-time or part-time. For further information, contact the university co-op office (107 Bernard Hall). The co-op office can help students find an employer, or students may arrange an internship with their present employer. To receive academic credit for co-op, students will need the approval of their employer, a faculty advisor, their department chair, the college co-op coordinator, and the university co-op office. The employer must detail the duties that the student will perform, and these duties must relate to the student's field of study. The faculty advisor and student will agree on an appropriate writing assignment that relates the student's internship to their academic course of study.

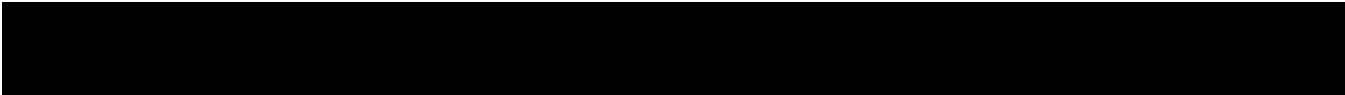
COURSES IN BUSINESS ADMINISTRATION (BUAD)

2205 CO-OP INTERNSHIP I This course is an elective open to business majors and minors. Upon completion of an approved co-op internship, credit will be given for this class. Requires the completion of a minimum of 250 hours at an approved internship and written assignment. Fall, spring, summer.

2305 CO-OP INTERNSHIP I This course is an elective open to business majors and minors. Upon completion of an approved co-op internship, credit will be given for this class. Requires the completion of a minimum of 375 hours at an approved internship and written assignment. Fall, spring, summer.

3205 CO-OP INTERNSHIP II This course is an elective open to business majors and minors. Upon completion of an approved co-op internship, credit will be given for this class. Requires the completion of a minimum of 250 hours at an approved internship and written assignment. Prerequisite: Completion of BUAD 2205 or BUAD 2305. Fall, spring, summer.

3305 CO-OP INTERNSHIP II This course is an elective open to business majors and minors. Upon completion of an approved co-op internship, credit will be given for this class. Requires the completion of a minimum of 375 hours at an approved internship and written assignment. Prerequisite: Completion of BUAD 2205 or BUAD 2305. Fall, spring, summer.



Chair and Professor: Dr. Oxner, 450-3108
Professors: Dr. Humphrey, Dr. Moore
Associate Professors: Dr. Jensen, Dr. Spikes, Mr. Whitehead
Assistant Professors: Dr. Nix, Ms. Smith
Instructors: Ms. Clarkson, Ms. Young

OBJECTIVES

The objective of the curriculum is to provide students with a theoretical foundation such that they will be prepared to become life-long learners who can evolve professionally in a dynamic business environment. Accounting graduates should be prepared for entry-level positions in public accounting, private industry and not-for-profit organizations as well as entry into graduate programs in accounting, business administration, or law.

HONORS PROGRAM IN ACCOUNTING

Seniors, with the consent of the department chair and their advisor, having an acceptable grade point average, may participate in the honors program in accounting. The student will be required to complete ACCT 4390 Special Problems in Accounting, which consists of a research paper based on individual study under the direction of a member of the accounting faculty. Successful completion of this program will allow the student to graduate with honors in accounting.

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. A study of the types of information managers need to plan and control business operations, where to obtain this information, and how to use this information in decision making. Prerequisite: ACCT 2311. On demand.

3315 COST ACCOUNTING This is a required course in the accounting major. This course may substitute for ACCT 3314 for all business majors. The mode of instruction is lecture/problem solving. An examination of the concepts, analysis, and procedures to provide relevant financial and non-financial information to management for purposes of planning, controlling, and evaluating operations. Prerequisite: ACCT 2311. Fall, summer.

3316 INDIVIDUAL TAXATION This is a required course in the accounting major. Mode of instruction is lecture/problem solving. Fundamentals of taxation with major emphasis on those provisions having application to individual taxpayers. Prerequisite: ACCT 2311. Fall, spring.

3320 ACCOUNTING INFORMATION SYSTEMS This is a required course for accounting majors and substitutes for INFO 3321 in the business core. The mode of instruction is lecture/computer applications. Analysis and design of systems to process and report relevant accounting and non-accounting information for business entities. Simulated processing of accounting information in a hands-on microcomputer lab environment. Prerequisites: ACCT 3311; INFO 1343 or 2343. Fall, spring.

3322 LEGAL ENVIRONMENT OF BUSINESS II This is an elective course but is recommended for students wanting to sit for the CPA Exam. The mode of instruction is lecture. A study of agency, commercial paper, forms of business organizations; real and personal property; bailments; the liability of accountants and other professionals; bankruptcy as applied to the different forms of business organizations. Prerequisite: ACCT 2321. Fall, spring.

4304 ACCOUNTING FOR GOVERNMENTAL AND NONPROFIT ORGANIZATIONS This is a writing-intensive course required of all accounting majors. Mode of instruction is lecture/problem solving. Accounting and financial reporting practices of state and local governments and other not-for-profit entities. Prerequisite: ACCT 2311. Spring.

4312 ADVANCED ACCOUNTING This is a required course in the accounting major. Mode of instruction is lecture/problem solving. Concepts and problems encountered in business combinations, consolidations, international accounting, segment reporting, and partnerships. Prerequisite: ACCT 3312. Fall.

4315 ADVANCED COST ACCOUNTING This is a computer applications course required of all accounting majors and substitutes for MGMT 3344 in the business core. Mode of instruction is lecture/problem solving. Use of information in solving quantitative and behavioral problems associated with the management of an entity. Prerequisite: ACCT 3315. Fall, spring.

4316 ADVANCED INCOME TAX This is a required course in the accounting major. Mode of instruction is lecture/problem solving. Advanced tax issues with emphasis on partnerships, corporations, estates, and gifts. Prerequisite: ACCT 3316. Spring.

4317 AUDITING This is a required course in the accounting major. Mode of instruction is lecture/problem solving. Introduction to auditing theory, professional conduct, internal control, and audit procedures. Prerequisites: ACCT 3312 and 3320. Fall.

4325 LEGAL ENVIRONMENT OF HEALTH CARE ADMINISTRATION This is an elective course. Mode of instruction is lecture. A survey of legal problems confronted by health care professionals and how to recognize and deal with these problems. Prerequisite: Senior status. On demand.

4390 SPECIAL PROBLEMS IN ACCOUNTING Prerequisite: Consent of the department chair.

ECONOMICS AND FINANCE

Chair and Professor: Dr. Block, 450-5355

Professors: Dr. Bell, Dr. Horton, Dr. Johnson

Associate Professors: Dr. Cantrell, Dr. He, Dr. Kordsmeier, Dr. Packer, Dr. Picou, Dr. Saltz

Assistant Professors: Dr. Leonard, Dr. McGarrity, Dr. McLean, Mr. Weller

OBJECTIVES

The department provides major programs or concentrations in the areas of economics, finance, and international trade. A degree in economics can be taken under a Bachelor of Business Administra-

tion, Bachelor of Arts, or Bachelor of Science degree plan. A degree in finance can be taken under the Bachelor of Business Administration degree plan. A degree in insurance and risk management is available under the Bachelor of Business Administration degree plan. A concentration in international trade is available under either the Bachelor of Business Administration or the Bachelor of Arts degree plan. Each program emphasizes analytical tools and applications that will be useful in a rapidly changing world.

The degree program in finance prepares students for careers in financial institutions and in finance-related occupations in business and government. The degree programs in economics prepare stu-

dents to enter professional careers as economic analysts in governmental and business organizations.

The concentration (within economics) in international trade prepares students for positive participation in global business and society. If a student desires to undertake graduate study in economics, business, health care administration, public administration, or law, the economics and finance programs provide excellent backgrounds for such study.

The degree in insurance and risk management will prepare students for management-level careers in insurance, personal financial planning, or as an employee benefits manager, insurance regulator, group insurance representative, agent, broker, risk manager, or safety or loss-control expert.

Economic and financial competence requires a basic knowledge of theories, principles, and techniques of analysis. Added to this basic knowledge should be the historical, institutional, and quantitative approaches within the disciplines. With these tools, supplemented by studies in related fields of mathematics, computer science, accounting, and social sciences, students will be able to formulate approaches to current economic and financial problems as they arise in their personal and professional lives.

Exceptional students may be invited by the faculty to pursue departmental honors. Students will write an honors paper under the direction of a faculty member. Successful completion of this program will allow the students to graduate with honors in the major. Finance majors will be required to complete FINA 4395 Special Problems in Finance; economics majors and international trade majors will complete ECON 4395 Special Problems in Economics.

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 Scholarship Fund, which is used to provide scholarships to a number of top students in economics is one example of how her endowment has been used to promote education in economics and banking.

Dr. Carmichael (PhD, Radcliffe) served as chair of the Economics Department at the University of Central Arkansas from 1931 until her retirement in 1952. Dr. Carmichael's endowment is an extension of her life's work in providing Arkansas students with an understanding of the important economic forces affecting their lives as well as the ability to formulate creative and productive approaches to the economic facets of life.

BACCALAUREATE DEGREES

Bachelor of Business Administration

The degree of Bachelor of Business Administration requires successful completion of 124 hours including (1) the general education component; (2) the BBA foundation and core requirements; (3) a major as listed be-

low; and (4) electives to bring total credit hours to 124, at least 3 hours of which must be outside the College of Business Administration.

Major in Business Administration 24 hours

The major requires eight upper-division courses in at least three different teaching areas within in Business (ACCT, ECON, FINA, INFO, MKTG, and MGMT). Further, the major in Business Administration requires students to complete at least one writing-intensive course from among ACCT 4304, ECON 4380, FINA 4336, MGMT 4348, or MKTG 4355 and one computer applications course from among ACCT 4317, ECON 3325, INFO 3362, INFO 3301, MGMT 4341, or MKTG 4370.

Major in Economics 24 hours

Contact the Department of Economics and Finance for major requirements.

Major in Finance 24 hours

The major consists of eight upper-division courses including ACCT 3311, ECON 3325, FINA 3340, FINA 3350, FINA 4332, FINA 4333, FINA 4336 and one of the following: FINA 3323, FINA 4331, ACCT 3312, INSU 3324, or MGMT 4341.

Major in Insurance and Risk Management 24 hours

The major consists of eight upper-division courses including INSU 3324, 3315, 3320, 4315, 4320; ECON 3325; FINA 3350, 4332.

Minor in Business Administration (not open to BBA students) 24 hours

ACCT 2310, ACCT 2311, ECON 2320, ECON 2321 and 12 hours of additional courses in business. At least 6 hours of upper-division courses must be taken in the minor in business administration.

Minor in Economics (not open to BBA students) 18 hours

ECON 1310, 2320, 2321, and 9 hours from upper-division economics courses.

Bachelor of Science

The degree of Bachelor of Science, with a major in economics, requires successful completion of 124 hours, including (1) the general education component; (2) the BS degree requirements; (3) the major as listed below; and (4) a minor approved by the student's minor advisor.

Major in Economics 33 hours

ECON 1310, 2320, 2321, 4333, 4370, 12 hours of upper-division economics electives (may include FINA 4332, or 4333, or 3340 in total), and MATH 2311, 3311, and 1591. BS economics majors may not minor in the College of Business Administration, and no more than 3 hours of electives may be in the College of Business Administration.

structional 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. 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

4336 ADVANCED FINANCIAL MANAGEMENT This is a required course for finance majors. The mode of instruction is lecture and discussion. Analysis of financial theories and practices as they relate to financial decision-making within the firm. Selected cases, problems, and readings illustrate techniques used in financial decision-making. Prerequisite: FINA 3330. Fall.

MARKETING, MANAGEMENT, AND INFORMATION SYSTEMS

Interim Chair and Associate Professor: Dr. Cangelosi, 450-3149

Professors: Dr. Bradley, Dr. Markham

Associate Professors: Dr. Bounds, Dr. Friedman, Dr. Gatlin-Watts, Dr. Griffin

Assistant Professors: Dr. Holbrook, Dr. Kim, Dr. Ladd, Dr. Nour, Dr. Rubach

Instructors: Mr. Bartos, Ms. Carson

OBJECTIVES

The Department of Marketing, Management, and Information Systems offers major programs of study designed to prepare students for careers in three key areas of business: marketing, management, and information systems. The marketing major provides a background

for employment opportunities in promotion, retailing, sales, and marketing management. The management major develops decision-making, organizing, and interaction skills needed at all levels of administration. The information systems major cultivates proficiency in the use of information technologies by individuals and work groups.

HONORS

Seniors, with the consent of their advisor and the department chair, having a grade point average of at least 3.25, may participate in a program which, when successfully completed, will allow the student to graduate with honors in the appropriate major. The marketing major will be required to complete MKTG 4390 Special Problems in Marketing, the management major must complete MGMT 4390

Special Problems in Management, and the information systems major must satisfy the requirements of INFO 4390 Special Problems in Information Systems. In each case the student will complete a research paper based on individual study and written under the direction of a faculty member.

**BACCALAUREATE DEGREE:
BACHELOR OF BUSINESS ADMINISTRATION**

Management

The degree of Bachelor of Business Administration with a major in management requires successful completion of 124 hours including (1) the general education component; (2) the BBA foundation and core requirements; (3) the major requirements listed below; and (4) electives to bring total credit hours to 124, at least 3 hours of which must be outside the College of Business Administration.

Major in Management 24 hours

MGMT 4341 and 4348; 12 hours of upper-division management

keting 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, 2330. Fall, spring .

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

4352 RETAIL MANAGEMENT An elective in the marketing and management majors. The class 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. Fall, spring.

ing-related topic. Used primarily by students wishing to earn departmental honors. Prerequisite: consent of department chair.

COURSES IN INFORMATION SYSTEMS (INFO)

1340 KEYBOARDING FOR DATA ENTRY A general elective intended for students wishing to gain keyboarding skills. Coverage of basic keyboarding, information processing, and ten-key number pad skills is provided through lecture and application in a computer laboratory. Open to any students who have less than one year of keyboarding. On demand.

2301 BUSINESS COMMUNICATIONS (formerly INFO 3361) A required course of all business majors in the business foundation. The course examines the principles of effective communication and provides practice in writing business letters, reports, resumes, and memos; various types of oral presentations; and electronic communications. Lecture/discussion/computer laboratory. Prerequisite: INFO 1343 or 2343. Fall, spring.

2343 INFORMATION PROCESSING AND ANALYSIS (formerly INFO 1343) A required course of all business majors in the business foundation. This course is designed to build competency in manipulating data used in the decision-making process by developing knowledge of word processing, spreadsheets, databases, and presentation software. Conducted as a hands-on class in the computer laboratory. Enrollment priority is given to business students. Prerequisite: Knowledge of keyboarding. Fall, spring.

3301 PROBLEM SOLVING WITH COBOL (formerly INFO 2328) A required course in the programmer/analyst track of the information systems major and an elective in the end user-track. Students will learn programming through lab activities, programming clinics, and lectures. This course emphasizes programming logic, well-structured, modular, and informatively documented programs to produce business reports. Program design is achieved through program plans, flowcharts, structure charts, and printer spacing charts. Prerequisites: MATH 1390 or 1395; CSCI 1470. Fall, spring.

3321 MANAGING SYSTEMS AND TECHNOLOGY Required course of all business majors in the business core. Introduces students to the management of information systems in an enterprise-wide environment. Explores the management and integration of information systems in a business to support decision-making and problem solving in light of current information technology. Primary mode of instruction is discussion and lecture, with computer-based activities serving a supporting role. Prerequisite: INFO 1343 or 2343. Fall, spring.

3322 INTRODUCTION TO MINICOMPUTERS (formerly INFO 2322) An elective in either track of the information systems major and intended for students interested in learning mid-range computing applications with the IBM AS/400. Requires knowledge of Windows and introduces students to AS/400 commands, procedures, and programs through lecture, demonstration, and practice in a networked computer lab. Prerequisite: INFO 1343 or 2343. Fall, spring.

3328 SYSTEMS ANALYSIS AND DESIGN A required course in the programmer/analyst track and an elective in the end-user track of the information systems major. Prepares students for such careers or as network managers or consultants. Requires a basic knowledge of computer programming and a general knowledge of organizational computer systems. Introduces students to the information systems life cycle, structured analysis, and design tools and techniques, and uses a CASE tool to apply concepts learned. Primarily uses lecture supported by laboratory exercises. Prerequisites: INFO 3301 and 3321. Fall, spring.

3329 END-USER SYSTEMS PLANNING AND DESIGN A required course in the end-user support track of the information systems majors and an elective in the programmer/analyst track. This course covers the planning stage of organizational and end-user information systems (OEIS) development with particular emphasis upon employee and workgroup interaction. The ability to define and solve OEIS problems is emphasized. Problem-recognition skills are stressed as well as analysis of OEIS through a group field-based project. A systems design is completed by students with special attention given to inter-organizational goals. A systems mode of thinking concerning organizational issues is emphasized throughout the course. Primary mode of instruction is discussion and lecture with computer-based activities serving a supporting role. Prerequisite: INFO 3321 and 3362. Fall, spring.

3362 PROGRAMMING IN VISUAL BASIC A required course in the end-user support track of the information systems major and an elective course in the programmer/analyst track, this course utilizes event-driven techniques to design and code programs for graphical user interfaces. Fundamental programming concepts and system development issues will be taught through the use of computer-based applications development. Prerequisites: INFO 3321 and CSCI 1340

Chair and Professor: Dr. Royal, 450-3177
Professors: Dr. Arn, Dr. Hardin, Dr. Peterson
Associate Professors: Dr. Charter, Dr. Griffin, Dr. Thurman

4325 APPLICATIONS OF COMPUTERS IN EDUCATION A requirement for the Business and Marketing Technology majors that synthesizes the role of the computer in the classroom through a comparison of existing computer hardware and software. Prerequisite: Admission to teacher education. Fall, spring, summer.

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: Admission to teacher education. Spring.

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: Admission to teacher education. 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 APRENTICESHIP 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 stu-

dents may become adaptable, productive, and self-sufficient in achieving occupational versatility and competence. Prerequisite: Admission to teacher education. On demand.

4390 SPECIAL PROBLEMS IN BUSINESS AND MARKETING EDUCATION An elective that synthesizes readings and research designs for detailed analysis of business and/or marketing technology through independent research. Required for students graduating with honors. Prerequisite: Admission to teacher education and consent of advisor. On demand.

4394 INTRODUCTION TO ADULT EDUCATION An elective that explores the principles of adult education and an overview of the educational needs of adults through discussion and computer-aided instruction. Prerequisite: Admission to teacher education. On demand.

4395 METHODS AND TECHNIQUES OF ADULT EDUCATION An elective that discusses specific methods and techniques used in the teaching of adults through discussion and micro-teaching. Prerequisite: Admission to teacher education. On demand.

4396 METHODS AND MATERIALS IN VOCATIONAL EDUCATION An elective that explores new methods and materials to use in teaching courses in vocational education through discussion. Prerequisite: Admission to teacher education. On demand.

COURSES IN EDUCATIONAL MEDIA/LIBRARY SCIENCE (EMLS)

1201 USE OF THE LIBRARY An elective that introduces Torreyson Library, its resources, and its tools for accessing information including basic reference sources. Fall, spring.

3200 INTEGRATING TECHNOLOGY INTO TEACHING Focuses on the development and implementation of strategies to integrate electronic resources into the curriculum. This is a required course for P-4 and middle-level education students. Candidates must be admitted to the teacher education program.

Interim Chair and Professor: Dr. James, 450-3172

Professors: Dr. Mainord, Dr. Naylor, Dr. Phelps

Associate Professors: Dr. Atkins, Dr. Cooper, Dr. Mosley, Dr. Witcher

Assistant Professors: Dr. Benson, Dr. Filer, Dr. Hervey, Dr. Shearin, Dr. SumpTMBSto the teacher yj10 6hrd materialsION

edge and practice of teaching and schooling through scholarly and creative activities.

All programs are accredited by the National Council for the Accreditation of Teacher Education.

BACCALAUREATE DEGREES

The department offers the Bachelor of Science in Education (BSE) degree with two majors:

1. BSE with a major in Childhood Education (P-4)
2. BSE with a major in Middle Level Education (4-8)

THE HONORS PROGRAM

To earn an honors degree, the following conditions must be met:

1. Consent of the chair of the department,
2. 3.00 grade point average on all work attempted, and
3. Successful completion of CIED 4321.

TEACHER EDUCATION PROGRAM ADMISSION AND RETENTION

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 either the Chair of the Department of Curriculum and Instruction or to the Director of Professional Field Services. If evidence becomes known that would render the candidate ineligible to receive a teacher's license in the state of Arkansas, then this information may become grounds for refusal to either admit to or retain in the program.

Admission

Admission will be selective and competitive. Individuals who satisfy the following criteria are eligible to apply for admission:

1. Meet state-established minimum scores on the PPST/CBT.
2. Complete 45 semester hours in general education with a minimum cumulative GPA of 2.50. A minimum UCA GPA of 2.50 will also be required.
3. Complete identified courses in written communication, oral communication, and mathematics with a C or better.
4. Complete a technology assessment or an equivalent course.
5. Complete an application for admission, an on-site writing sample, and an interview.
6. Complete pre-professional course requirements as stipulated by the program area.

Retention

Candidates will be continually monitored to ensure that they demonstrate progress in terms of their professional development and academic studies. Candidates must do the following:

1. Maintain a 2.50 overall gpa and a 2.50 UCA gpa.
2. Complete required professional education course work with at least a 2.50 gpa and no grades below C.
3. Complete other required courses in their programs of study with at least a 2.50 gpa and no grades below C.
4. Make satisfactory progress in clinical and field assignments as evaluated by faculty, program administrators, and cooperating teachers.

EXIT REQUIREMENTS

Candidates who are admitted and maintain satisfactory progress as defined under the Retention criteria can expect to graduate from the program if they fulfill all other requirements established for the Bachelor of Science in Education degree.

REQUIREMENTS FOR TEACHER LICENSURE

The following requirements must be met before recommendation for licensure will be granted:

1. Satisfactory completion of state-mandated tests.
2. Successful completion of all requirements for a bachelor's degree (for students who are not UCA degree candidates, the completion of requirements must be from a regionally accredited institution of higher education).
3. Completion of all professional education courses with a GPA of 2.50 or better and with no grade less than a C.
4. Completion of courses in the teaching major with a 2.50 GPA or better and with no grade of less than a C in required courses.

SECONDARY EDUCATION, SPECIAL EDUCATION, AND POST-BACCALAUREATE CANDIDATES

Consult with the Chair, Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

CHILDHOOD EDUCATION (P-4) PROGRAM

The undergraduate program in childhood education is designed to prepare candidates for positions as teachers in grades P-4. Upon completion of the program, candidates are expected to (a) understand and apply knowledge related to the social, historical, and philosophical foundations of early childhood education; (b) know the way young children learn and develop; (c) understand language acquisition, cultural influences on learning, exceptionalities, diverse student populations, inclusion and equity in classrooms and schools; (d) integrate technology into instruction and learning; (e) use research and developmentally appropriate practices in their teaching; and (f) know the roles and responsibilities of the profession of teaching.

Major in Childhood Education (P-4) 129 hours

Candidates who successfully complete this program and meet other requirements established by the state of Arkansas will be eligible to seek an initial teacher's license through the Arkansas Department of Education.

Chair and Professor: Dr. Skotko, 450-3193
Professors: Dr. Glenn, Dr. B. Smith, Dr. Williams

Category III: Choose 3 hours

- PSYC 2370 Developmental Psychology
- PSYC 3360 Social Psychology
- PSYC 4300 Theories of Personality
- PSYC 4325 Adult Psychology

Category IV: Choose 9 hours

- PSYC 3331 Psychology of Business/Industry
- PSYC 3350 Psychology of Women
- PSYC 4351 Behavior Modification
- PSYC 4353 Practicum in Behavior Modification
- PSYC 4380 Independent Readings
- PSYC 4382 Independent Research
- PSYC 4390 Tests & Measurements

Courses not used to complete category II or III requirements may be used in category IV.

Minor in Psychology..... 21 hours

Twenty-one hours including general psychology, one course from each of categories II and III, and 12 additional hours selected in consultation with departmental advisor.

MASTER'S DEGREE

See *Graduate Bulletin*.

COURSES IN PSYCHOLOGY (PSYC)

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. Lecture. Fall, spring, summer.

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

2350 SENSATION AND PERCEPTION Study of the sensory processes and related perceptual phenomena. Lecture. Prerequisite: PSYC 1300. Fall.

2370 DEVELOPMENTAL PSYCHOLOGY Continuation of theoretical points of view related to development. Lecture. Prerequisite: PSYC 1300. Fall, spring, summer.

3310 PSYCHOPHYSIOLOGY This course explores the use of physiological recordings as an aid to understanding human behavior and mental processes. Lecture. Prerequisite: PSYC 1300. On demand.

3325 COGNITIVE PSYCHOLOGY Survey of human mental processes such as thinking, memory, language, attention, and problem-solving. Human cognition will be studied from multiple perspectives: psychology, artificial intelligence, linguistics, human learning, and computer technology. Lecture. Prerequisite: PSYC 1300. On demand.

3331 PSYCHOLOGY OF BUSINESS AND INDUSTRY Survey of psychological principles applicable to business and industry settings. Lecture. Prerequisite: PSYC 1300. On demand.

3332 EXPERIMENTAL PSYCHOLOGY Scientific methodology and report writing as applied to major problem areas in behavioral research. Lecture/laboratory; computer work required. Prerequisites: PSYC 1300 and 2330. Fall, spring.

3340 EXPERIMENTAL PSYCHOLOGY LABORATORY Application of scientific methods to behavioral problems. Lecture/laboratory; computer work required. Prerequisite: PSYC 3332. Fall, spring.

3350 PSYCHOLOGY OF WOMEN Survey and analysis of theory, research, and special topics that pertain to the psychological experience of women through the life-span. Focus on integrating psychology of women into traditional approaches to the study of human behavior. Lecture. Prerequisite: Six hours of psychology. Spring.

3351 PSYCHOLOGY OF LEARNING Basic theories and principles of learning. Lecture. Prerequisite: PSYC 1300. Fall, summer.

3360 SOCIAL PSYCHOLOGY Social and cultural aspects of individual personality. Lecture. Prerequisite: PSYC 1300. Fall, spring.

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

4300 THEORIES OF PERSONALITY Study of the major ideas of important personality theorists and their theoretical contributions to the science of personality. Lecture. Prerequisite: PSYC 1300. On demand.

4320 ABNORMAL PSYCHOLOGY Survey of behavior disorders, ranging from the mild to the severe. The etiology, treatment, and prognosis of the various maladaptive behavior patterns are examined. Lecture. Prerequisite: PSYC 1300. Fall, spring.

4340 HISTORY AND SYSTEMS OF PSYCHOLOGY Study of philosophical and scientific antecedents of contemporary psychology. Lecture. Prerequisite: Senior status. 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. Lecture. Prerequisite: PSYC 3351. Spring

4352 ADULT PSYCHOLOGY

4353 PRACTICUM IN BEHAVIOR MODIFICATION Supervised, practical experience in behavior management programs. Lecture. Prerequisites: PSYC 3351, 4351 or 5351, 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. Prerequisite: Consent of instructor and chair. On demand.

4381 PSYCHOLOGY OF THE DISADVANTAGED Study of the impact of social factors on attitudes, personality development, and motivation patterns of young children from disadvantaged backgrounds. Lecture. Prerequisite: PSYC 1300. On demand.

4382 INDEPENDENT RESEARCH IN PSYCHOLOGY Development of a research proposal and the execution of the study. Prerequisite: PSYC 3332, consent of instructor and chairperson. On demand.

4390 PSYCHOLOGICAL TESTS AND MEASUREMENTS Theory and construction of tests, with concern for test selection and use. Lecture. Prerequisite: PSYC 2330. On demand.

4395 SENIOR SEMINAR IN PSYCHOLOGY: AN INTERDISCIPLINARY APPROACH TO HUMAN ISSUES A survey of the literature related to the application of psychological principles within an interdisciplinary context. Prerequisite: Consent of instructor. On demand.

4383 WORKSHOP IN PSYCHOLOGY Examination of current research in psychology with emphasis upon areas not covered in the undergraduate program. Variable course content. May be repeated for a maximum of six hours credit. Prerequisite: Consent of instructor. On demand.

COLLEGE OF FINE ARTS AND COMMUNICATION

Dean and Professor: Dr. Robert Everding, 450-3293

Associate Dean and Assistant Professor: Mr. Gilbert Baker

MISSION

The College of Fine Arts and Communication seeks to be Arkansas' preeminent provider of undergraduate education in the arts as well as to offer excellent graduate programs in selected disciplines. The college's primary mission is the preparation of the next generation of artists, educators, and communicators. To this end, it provides quality classroom instruction and rigorous studio practice in art, journalism, music, speech, telecommunications, theatre, and writing. The college is committed to fostering a personal, creative environment in which students learn from mentors as they mutually explore the nature of the aesthetic experience and thereby contribute to a deeper appreciation of the human experience. The college is also dedicated to providing public artistic and educational experiences that enhance and expand the cultural lives of all Arkansans.

To accomplish its mission over time and under changing conditions, the college

1. Creates a learning community that is dedicated to the artistic, communicative, and personal development of the individual and that prizes the artist's voice and vision.
2. Delivers curricula that blend the best of past knowledge with the most provocative of current theory in order to prepare students to contribute to the development of the arts, media, and education.

3. Maintains a quality faculty that demonstrates excellence both in the classroom and in creative/scholarly pursuits.
4. Provides optimal facilities and resources to support a dynamic learning environment.
5. Presents—as an extension of its teaching mission—public performances, educational initiatives, and special programs that address the cultural and educational needs of all Arkansans.

DEPARTMENTS

Art
Music
Speech, Theatre, and Mass Communication
Writing and Rhetoric

PROGRAMS WITH DEPARTMENTAL HONORS

Art
Mass Communication
Music
Speech
Theatre

Bachelor of Fine Arts

The degree of Bachelor of Fine Arts requires successful completion of 127 hours, including (1) general education component; (2) degree requirements (foreign language); and (3) 80 hours in art in an approved degree plan. A minor is not required. This degree may require more than the normal eight semesters to complete.

Major in Studio Art 80 hours

In addition to the 35 hours of core curriculum, add 30 hours in an approved studio emphasis, 3 hours of art history elective, and studio courses to complete 80 hours. Acceptance to the BFA degree program requires faculty approval of the BFA application. Following admission to the BFA degree program, students are accepted to degree candidacy after completion of 36 hours of general education including the foreign language requirement, and 44 hours in art including ART 3150. 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.

Bachelor of Arts

The degree of Bachelor of Arts, with a major in art, requires (1) the general education component; (2) degree requirements (foreign language); (3) an approved degree program in art; and (4) a minor approved by the student's minor advisor. A minor is not required for Bachelor of Arts students who complete requirements for teacher licensure.

Major in Art 45–48 hours

Studio Art Emphasis: 36 hours of core and area studies; ART 4388;ours

Art Education Emphasis: 24 hours of core and area studies; ART 4388;ours

Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

Art Twenty-four hours of art, including ART 1310 or

Minor in Art History

Twenty-four hours of art, 9 of which must be upper-division ART 2325, 2335, 2336; 3 hours studio art; 3ours[elective] ART 330e, 3302, 3303, 3365, 3385, 4102, 4202, 4302; and ART 42325, 2335, and 2336 must be completed prior to enrolling in level art history courses.

ACCREDITATION

Member of the National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 2e, Reston, Virginia 20190. Telephone: (703) 437-0700.

COURSES IN ART

Studio

130e INTRODUCTION TO ART Non-major elective. Beginning studio work in two- and three-dimensional art. Recommended for the undecided major as an introduction to creative studio experience. Studio. May not be credited toward a major or minor in art. Fall.

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

Foundation course for majors and minors. Drawing techniques and media. Studio. Fall, spring.

2140 PORTFOLIO ASSESSMENT I Area studies course for majors only. Sophomore Major Advancement Interview. Seminar. Prerequisites: ART 1310, 132e, 2312, 2322, 3ours[e] from 2325, 2335, 2336. Fall.

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

2322a 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. 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.

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, 3ours[e].3000-level studio. Spring.

4388 ADVANCED STUDIO Major/minor course in an art degree program emphasis. Developing additional competence in special areas. May be repeated for credit. Studio. Prerequisites: ART 2140, 6 hours in one studio area, and permission. Fall, spring.

4600 BFA PROBLEM Required course for BFA degree majors only. Individual instruction in selected topics, providing an opportunity to produce a series of works that explore a creative artistic vision. Studio. Prerequisite: departmental approval. Spring.

4171, 4271, 4371* DIRECTED STUDIO PROBLEM Studio course in an art degree program emphasis for majors only. Specific art media or topics on current issues and problems in art. Studio. Prerequisites: 3 hours ART 4388 and departmental approval. Fall, spring.

4375, 4675* ART INTERNSHIP Required course in the BFA degree. Available to majors only. Supervised, practical experience in art. Internship. Prerequisite: Departmental approval. Fall, spring.

Art Education (ART)

3304 INTRODUCTION TO ART EDUCATION Area studies elective in the major and requirement in the art education emphasis. Early field experience in a variety of instructional activities based on classroom preparation. Studio. Prerequisites: ART 1310 or 2312,1321. Spring.

4350 ART EDUCATION I Course required in the art education emphasis. Theory and practice in art education for the elementary school. Studio. Prerequisite: ART 2301Fall.

4360 CONCEPTS OF ART Part of the academic block required of elementary education candidates. The course will introduce visual arts content for the development and implementation of appropriate art curriculum from early childhood through the elementary grades. Lectures, discussion, demonstration, studio, and field experiences are central to the course. May not be credited toward a major or minor in art. Studio. Prerequisite: Admission to teacher education. Fall, spring, summer.

4361 ART EDUCATION II Course required in the art education emphasis. Teaching techniques for secondary schools. Studio. Prerequisites: ART 2140 and admission to teacher education. Fall.

Humanities and Art History (ART)

2300 ART APPRECIATION Part of the general education program to satisfy the fine arts requirement. Significant styles and achievements in the visual arts with study directed toward trends and influences on contemporary society. May not be credited toward a major or minor in art. Lecture. Fall, spring, summer.

2325 ASIAN ART SURVEY Foundation course for majors and minors. Important artistic monuments from India, China, and Japan. Because Buddhism is a connecting link for Asian cultures, emphasis is placed on Buddhist art. Lecture. Fall.

2335 ART HISTORY, ANCIENT Foundation course for majors and minors. The painting, sculpture, and architecture of Western civilization from prehistoric times to the Renaissance. Lecture. Fall, spring.

2336 ART HISTORY, RENAISSANCE TO MODERN Foundation course for majors and minors. The painting, sculpture, and architecture of Western civilization from the Renaissance to the contemporary. Lecture. Fall, spring.

3301 MODERN ART Area studies course for majors and minors. Art from the nineteenth century to the present. Lecture. Fall.

3302 HISTORY OF AMERICAN ART Area studies course for majors and minors. Art since colonial times. Lecture. Spring odd years.

3303 NINETEENTH CENTURY ART HISTORY Area studies course for majors and minors. European art of the nineteenth century. Lecture. Spring even years.

3335 ART MUSEUM STUDIES Elective course in the art history emphasis. Introduction to the theory and practice of art museums. Lecture. Prerequisite: 2000-level art history. Fall even years.

3365 WOMEN IN ART Area studies course for majors and minors. Y(neteent R01ients from India, China, and ent.)TjT*especinglment. DERMleplaced
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Chair and Professor: Dr. Showell, 450-3163

Professors: Dr. Anthony, Dr. Collins, Dr. Kraeft, Dr. Lamar, Dr. Winter

Associate Professors: Mr. Erwin, Mr. Hasty

Assistant Professors: Mr. Baker, Dr. Brooks, Dr. Brown, Dr. Burritt, Dr. Clifton, Dr. Dickinson, Dr. Holden, Dr. Hsu, Ms. Hurd, Dr. Oeste, Dr. Roscigno, Dr. Rutman

Lecturers: Ms. Antolik, Dr. Duso, Dr. Huang

Instructors: Ms. Bryant, Ms. Franklin, Mr. Shires

MISSION



In consonance with the mission of the university and of the College of Fine Arts and Communication, the mission of the Department of Music is (1) to provide a professional course of study to undergraduate and graduate students with aptitude and interest in careers in music or music education; (2) to provide pre-professional training to those who are not musicians, but who will use music as an important part of their professional lives; (3) to provide opportunities for students in all disciplines to enrich their own general education by taking courses in music; (4) to participate in the life of the university, the city of Conway, and the state of Arkansas through professional and volunteer service; and (5) to contribute to the enrichment of the cultural life of the university's extended community by offering opportunities for intellectual discourse and by presenting musical performances of high quality.

THE HONORS PROGRAM IN MUSIC

During the junior year, a music major may be invited to enter the departmental honors program. To be eligible for admission, a student must have a 3.0 GPA overall and a 3.0 GPA in music courses. This program will include successful completion of MUS 4310 Special Studies in Music.



Pedagogy 2-4 hours

MUS 4201; instrumental majors: MUS 4204; keyboard majors: MUS 4202; vocal majors: MUS 4160.

Note: Vocal majors under the BM-Performance program must have one year of a foreign language. Vocal majors must also take MUS 1141 and 1142.

Electives*:

Vocal emphasis: 6 hours; instrumental emphasis: 15 hours; keyboard emphasis: 13 hours.

*Electives may be music courses or other courses of study. Students should consider the university requirement of having 40 hours of upper-division credit for graduation when choosing electives.

Bachelor of Arts in Music

The Department of Music has proposed a Bachelor of Arts degree program to the Arkansas Department of Higher Education. The status of the application is still pending. Please consult directly with the Department of Music about this degree.

Minor in Music (non-teaching)

This minor is designed for students who wish to develop their competence in music, but who do not desire a professional preparation. Twenty-four credit hours are required to complete a minor in music.

Music theory 8 hours

Admission to Harmony I and Ear Training I is contingent upon the successful completion of a placement test or the successful completion of MUS 1300 Fundamentals of Music.

Music Literature 3 hours

Applied Music 6-7 hours

For those who need piano for theory keyboard, 2 hours of piano class may be a part of the 6 hours in applied music.

Ensemble 6-7 hours

Only one credit per semester may be used to fulfill this requirement.

Masters Degrees

See *Graduate Bulletin*.

**DEPARTMENTAL UNDERGRADUATE
ADMISSION REQUIREMENTS**

Students may apply for admission to undergraduate music study at the University of Central Arkansas for the fall, spring, or summer terms. Applicants are encouraged to begin the application process late in their junior year or early in their senior year of high school.

In addition to meeting the general requirements for admission to the University of Central Arkansas, students desiring to pursue a major or minor in music must submit an additional application and supporting data to the Department of Music.

Admission from High School

1. Submit all general materials to the UCA admissions office.
2. Submit music application to Department of Music (forms available from music office, SFA 103).
3. Audition in the principal applied area. Early audition dates are encouraged. Audition requirements are sent to each applicant. A satisfac-

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ACCREDITATION

The University of Central Arkansas is an accredited institutional member of the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, Virginia 20190. Telephone: (703) 437-0700.

- Vocalists must participate in a choir to fulfill the large ensemble requirement.
- Piano majors may substitute up to three semesters of accompanying for the large ensemble requirement.

BM in Performance

- Woodwind, brass, and percussion majors may participate in the university band or university orchestra to fulfill the large ensemble requirement.
- String majors must participate in the university orchestra to fulfill the large ensemble requirement.
- Piano majors may substitute up to six semesters of accompanying for the large ensemble requirement.
- Piano majors may choose any ensemble to fulfill the large ensemble requirement.

Recital Attendance

All music majors are required to attend 20 recital programs per semester (ten general recitals plus ten additional events). Attendance at these recitals is required for six semesters. Failure to meet minimum attendance requirements in any given semester will result in attendance at

COURSES IN MUSIC (MUS)

Courses in 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,

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. Fall, 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.

2199 PERCUSSION CLASS Required of BM education instrumental major. The course introduces students to the teaching, maintaining, purchasing, and performing of percussion instruments. Emphasis is placed on the knowledge of instruments, their literature, and their pedagogy. The course is presented through lecture, performance demonstration, and lab teaching. Spring.

3304 ADMINISTRATION AND SUPERVISION OF INSTRUMENTAL MUSIC Required of all BM music education instrumental majors. The course provides the skills to successfully organize and administer a school band program from beginning band through high school band. Learning strategies include lecture, research, microteaching practicums, and observations in the local schools. Prerequisite: Undergraduate conducting is recommended prior to this class. Spring.

3305 MUSIC EDUCATION I Required of all BM education majors. Philosophy, materials, techniques, and methods of instruction for an elementary general music program appropriate for grades K–6. Methods of instruction include lecture, demonstration, listening, and laboratory. Prerequisite: Admission to the teacher education program. Fall.

3306 MUSIC EDUCATION II AND CHORAL TECHNIQUES Required of all BM education vocal music majors. Philosophy, materials, techniques, and methods of instruction in choral and general music courses in the junior and senior high school music program. Prerequisite: MUS 3305. Spring.

3308 ORCHESTRAL METHODS AND MATERIALS Required of BM education majors who plan to conduct orchestral studies in the public schools. Orchestral and string material including administration, auditioning, recruiting, and repertoire selection for elementary, middle school, and high school orchestras. Methods of instruction include lecture, demonstration, listening, and laboratory. Open to string majors and minors only and other music education majors by request. On demand.

3392 MUSIC IN THE ELEMENTARY SCHOOL Required of all elementary education majors (including special education and pre-kindergarten emphases). Curriculum includes a brief review of the fundamentals of music followed by study of the methods and materials needed for classroom teachers to teach music in elementary school. Methods of instruction include lecture, demonstration, listening, and laboratory. Meets the requirements for state certification of classroom teachers. Students with little or no background in music fundamentals are encouraged to enroll in MUS 2391. Fall, spring, summer.

4160 VOCAL PEDAGOGY Required of all BM vocal music majors. Physiological and psychological aspects of voice teaching techniques considered from a historical, evolutionary, and comparative point of view. Diagnostic and corrective procedures. Methods of instruction include lecture, discussion, observation, and guided student teaching. Fall.

4201 CHORAL AND INSTRUMENTAL CONDUCTING Required of all BM music education and performance majors. Introduces students to the basic requirements of the conductor of both choral and instrumental ensembles. Presented in lecture and laboratory format. Prerequisite: Upper-division status. Fall.

4202 PIANO PEDAGOGY Required of all BM piano majors. Through lecture and reading, the course introduces the student to piano teaching methods and issues relating to learning the craft of teaching beginning through advanced piano students. Students will do observed student teaching in class. Fall.

4204 INSTRUMENTAL PEDAGOGY AND REPERTOIRE Required of BM performance instrumental majors. Includes a survey of pedagogical materials, repertoire, and schools of instrumental performance and instruction in the student's major instrument. Presented in lecture and laboratory format. Prerequisite: Upper-division standing. On demand.

4206 MARCHING BAND TECHNIQUES General education elective for the BM education instrumental major. Program development, teaching strategies, drill design, and computerized drill as performance to the school marching band. Learning strategies include lecture, guided projects, computerized instruction, and discussion. Summer.

Special Courses

4110 WORKSHOP IN MUSIC EDUCATION Available as an elec-

11F1–41F8 CONCERT CHOIR Open to all students, by audition only. Performs choral literature from all eras and serves to acquaint all singers with the myriad of vocal styles and forms and is presented through daily rehearsals. Prerequisite: Audition for the conductor. Fall, spring.

11H1–41H8 BRASS CHOIR A select ensemble of brass and percussion players available to BM scholarship students as a small ensemble requirement. Open to all other students as a small ensemble elective. 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.

11J1–41J8 JAZZ ENSEMBLE AND 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.

11M1–41M8 CHAMBER MUSIC 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.

11S1–41S8 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.

1151 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.

3110, 3111 OPERA WORKSHOP I AND II 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.

4102 SENIOR RECITAL Represents the final applied music project for BM majors. A public recital (suggested minimum duration, BM: 45 minutes) will be evaluated by a faculty jury. The program will include program notes prepared by the student. Prerequisite: Comple-

tion of junior-level applied study and approval of the applied teacher. BM education majors may substitute a senior project at the discretion of their applied teacher. Fall, spring.

Applied Classes (group instruction)

1131–1132 PIANO CLASS I AND II Remedial. Does not count toward music degrees. These classes 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. Prerequisite after Piano II: MUS 1131 or consent of instructor.

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. On demand.

Applied Lessons (individual instruction)

Required of all majors and minors (number of hours varies according to major or emphasis). Available as an elective to non-majors depending upon studio availability. Courses specify if they are designed for the BM performance major, BM education major, or music minor. Teaching technique varies depending upon the major instrument or voice and the specific instructor. In addition, registration in applied lessons requires an additional registration for a large conducted ensemble. See ensemble requirements above. Prerequisite: Consent of instructor. Fall, spring.

11N1–11N2, 12N1–12N2 VIOLIN (education).
14N1–14N2 VIOLIN (performance).
21N3–21N4, 22N3–22N4 VIOLIN (education).
24N3–24N4 VIOLIN (performance).
31N5–31N6, 32N5–32N6 VIOLIN (education).
34N5–34N6 VIOLIN (performance).
41N7–41N8, 42N7–42N8 VIOLIN (education).
44N7–44N8 VIOLIN (performance).

The course numbers for all other instruments follow the pattern set above. The first digit is the year of school for which the course is intended, the second is the number of units, the third is the letter standing for the instrument or voice, and the fourth is the number of the semester of the degree program. The other instruments have these letters:

VIOLA=E
VIOLONCELLO=L
CONTRABASS=T
PIANO=P
ORGAN=G
VOICE=V
WOODWINDS=W (FLUTE, SAXOPHONE, CLARINET, BASSOON)
BRASS=B (TRUMPET, HORN, EUPHONIUM THOMBONE, TUBA)
PERCUSSION=U
GUITAR=R

Chair and Professor: Dr. Willenbrink, 450-3162

Professors: Dr. Everding, Dr. Roden

Assistant Professors: Ms. Baker, Dr. Bedner, Dr. Blakey, Ms. Geer

Lecturers: Ms. Bernum, Ms. Hamilton, Ms. Higginbotham, Ms. Stephens

Instructors: Ms. Walter, Ms. Gillespie-Bolter

Professional Staff: Mr. Fulper-Smith, Ms. Parker

MISSION

The Department of Speech, Theatre, and Mass Communication seeks to be Arkansas's preeminent provider of undergraduate education in speech, theatre, journalism, and telecommunications. The department's primary mission is the preparation of the next genera-

It is strongly recommended that mass communication students take more than the minimum university requirements in economics, political science, history, and/or sociology.

FACILITIES

New, state-of-the-art facilities support each program of the department. Mass communication is housed in a new facility that includes two television production studios, a 5000-watt radio station, audio studios, editing suites, 2 computer labs, production areas, and a dark-room. Theater facilities include a well-equipped technical area, a CAD laboratory, a 150-seat studio theatre, a 300-seat proscenium theatre, and the new 1200-seat Reynolds Performance Hall. Speech and Public Relations are housed in the new Harrin Hall that includes a speech center and performance studio.

THE HONORS PROGRAM IN SPEECH, THEATRE, AND MASS COMMUNICATION

A student may be invited by the faculty of the department to enter the honors program in the first semester of the senior year. To earn departmental honors, the student must major in one of the emphasis areas of the Department of Speech, Theatre, and Mass Communication and enroll in SPTA 4370. In addition, the student will submit a final project paper or performance no later than February 1 for spring graduation, October 1 for fall graduation, or June 1 for summer graduation.

PRE-PROFESSIONAL COURSES

In addition to course work in the major area, the department offers students the opportunity to participate in pre-professional courses that are designed to provide the student with study, research, and professional experiences beyond the departmental courses. These pre-professional courses are SPTA 3221, 3321 Communication Internship, SPTA 4367 Field Experience in Communication, and MCOM 3122, 3222, 3322 Directed Study in Communication. Credit for honors study and pre-professional courses is not included in the 40-hour major, nor does it count toward the 12 hours of upper-division credit in the department.

BACCALAUREATE DEGREES

Bachelor of Arts/Bachelor of Science in Speech and Theatre

The degrees of Bachelor of Arts or Bachelor of Science with an emphasis in speech communication, public relations or theatre require the successful completion of 124 hours, including (1) the general education component; (2) specific degree requirements; (3) a major as described below; and (4) a minor as arranged through the student's minor advisor. Students selecting an emphasis in Public Relations or Speech Communication must earn a grade of C or better in SPTA 1300.

Speech Communication Emphasis 40 hours

In addition to university requirements, students will be required to take SPTA 1310, 2302 or 3312, 2310 or 2311, 2315, 2341, 3301, or 3307, 4301, and 15 hours of electives from SPTA 1131, 2302, 2310, 2311, 3300, 3301, 3303, 3307, 3312, 3392, 4311, 4316. In addition students are required to complete at least four one-hour courses in communication applications at the appropriate level.

Speech Minor 26 hours

Students seeking a minor in speech are required to complete SPTA 1310, 2310 or 2311, and at least 2 hours of communication applications. The remaining 18 hours are to be selected in consultation with a departmental advisor from courses listed under the emphasis areas of speech.

Public Relations Emphasis 44 hours

In addition to university requirements, students will be required to take 15 hours of core courses: SPTA 1310, 3301, 2300; MCOM 3305, and 3310. Students are required to take the following courses in theory and research (9 hours): SPTA 2315, 3312; MCOM 3307; 12 hours of communication skills from the following courses: SPTA 2305, 2310 or 2311, 2341, 3303, 3307, 4301, 4311 and 4316. Students are required to complete 6 hours of mass communication courses from the following: MCOM 1300, 1362, 2366. In addition to these courses, students are required to complete at least two 1-hour courses in communication applications at the appropriate level and complete an internship or co-operative field experience.

Theatre Emphasis 40 hours

In addition to university requirements, students will be required to take SPTA 1350, 1370, 2331, 2390, 3324, 3325, 3332 or 3310, 4320, and 4340. Students will complete nine hours of electives from SPTA 1360, 2325, 2320, MCOM 2332; SPTA 2380 or 3300, 3392, 3310, 3332, 3391, 4315, 4321, 4322. In addition to these courses, students are required to complete at least four 1-hour courses in theatre production and performance at the appropriate level.

Theatre Minor 26 hours

Students seeking a minor in theatre are required to complete SPTA 1350, 1370, 2331, 2390, and at least 2 hours of theatre production and performance. The remaining 12 hours are to be selected in consultation with a departmental advisor from courses listed under the theatre emphasis area.

Bachelor of Arts/Bachelor of Science in Mass Communication

The degrees of Bachelor of Arts or Bachelor of Science in mass communication with an emphasis in journalism or telecommunications require the successful completion of 124 hours, including (1) the general education component; (2) specific degree requirements; (3) a common program core of MCOM 1300, 1362, 2300, and 3301; (4) a major as described below; and (5) a minor as arranged through the student's minor advisor.

Journalism Emphasis 40 hours





as Valentino, Chaplin, and Garbo are seen in the art, and directors such as Griffin and DeMille are analyzed and studied. Spring, even years.

2334 NON-FICTION WRITING This course combines the skills of feature and magazine writing and looks at writing the in-depth article. The course includes the skills of researching, writing, and marketing the article. Prerequisite: MCOM 2300 or consent of instructor. Spring.

2366 INTRODUCTION TO TELEVISION STUDIO PRODUCTION Techniques of television studio production, terminology, and operation of television studio equipment: camera, lenses, video switching, light-

Chair and Associate Professor:

ment, 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. Fall, spring, summer.

1320 ACADEMIC WRITING AND RESEARCH Part of the general education program and required of all students during the first semester they are eligible to enroll. The course introduces students to academic argument based on substantiating, evaluating, and proposing claims. Research strategies are central to the course, which will be conducted as a workshop. Prerequisite: WRTG 1310 with a grade of C or higher. Fall, spring, summer.

2310 INTRODUCTION TO CREATIVE WRITING This course is designed to provide students the opportunity to study through their own writing the four major genres of creative writing: fiction, poetry, creative nonfiction, and playwriting/screenwriting. Through guided reading and writing assignments, students will learn the basic elements of each of these genres and will be given the opportunity to practice in all of these forms. Lectures will cover all genres; workshop genres will be determined by individual preferences and instructor's area of expertise. Some class time will be devoted to workshops, invention exercises, and marketing strategies. Prerequisite: WRTG 1320. Fall, spring.

2320 INTRODUCTION TO LINGUISTICS This course will cover a variety of topics useful to any language-related course of study. Areas covered include sound structure, word structure, and sentence structure; meaning and function of language; language and culture; language and thought; linguistic variation; history of writing systems; and language acquisition. Prerequisite: WRTG 1320. Fall, spring.

3300 CREATIVE WRITING Introduces students to creative writing theory and practice in one of the following genres: fiction, poetry, creative non-fiction, or playwriting/screenwriting. Some attention will be given to students' writing preferences, and some time will be devoted to workshops and invention. Prerequisite: WRTG 2310 or consent of instructor. Fall, spring.

3315 PRACTICUM IN THE WRITING LABORATORY Training course for Writing Lab tutors. Exposure to rhetorical and linguistic concepts that enhance the teaching of composition. Prerequisites: WRTG 1320 and consent of the instructor. Spring.

3301 RHETORIC AND COMPOSITION An introduction to the discipline of rhetoric and its applications to composition. The course is designed to increase students' repertoire of strategies for dealing with a variety of rhetorical situations. Students will learn how to assess rhetorical situations, identify issues in specific cases, and construct arguments based on those cases. Prerequisite: WRTG 1320. Fall, spring, summer.

3305 ADVANCED COMPOSITION Upper-division workshop course for writing majors and minors and students in other programs. Focuses on academic and professional forms of writing. Students will use advanced strategies for print and electronic writing and examine how to shape the composing process for specific writing tasks and purposes. Prerequisite: WRTG 1320. Fall, spring.

3310 TECHNICAL WRITING A workshop course in professional and technical writing. Students work on several writing projects, both in groups and as individuals. Some sections will use writing internships with state agencies and businesses to give students the opportunity to write in the workplace and examine the issues of professional communication. Prerequisite: WRTG 1320. Fall, spring.

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.

Dean and Professor: Dr. Neil Hattlestad, 450-3122
Associate Dean and Professor: Dr. Jimmy Ishee, 450-3123

MISSION

The College of Health and Applied Sciences is dedicated to enhancement of the health and well-being of the public through preparation of professionals and the advancement of knowledge. Exceptional faculty provide superior undergraduate and graduate programs, which include high quality classroom, laboratory, and clinical experiences. Graduates of all programs are well-qualified for professional advancement and community service. Advanced study opportunities for experienced professionals are provided through graduate degree programs at the master's and doctoral levels, as well as non-credit continuing education seminars and workshops. The importance of interdisciplinary collaboration, adherence to the highest standards of ethical practice, and lifelong learning are emphasized. Faculty and administrators seek to create a learning environment that honors diversity and is culturally bias free. Throughout all programs of study students develop a commitment to serve each person as unique and worthy of their best efforts.

DEPARTMENTS

Family and Consumer Sciences
Health Sciences
Kinesiology and Physical Education
Military Science
Nursing
Occupational Therapy
Physical Therapy
Speech-Language Pathology

CURRICULA

Associate of Applied Science

Child Care Management
Physical Therapist Assisting

Bachelor of Science

Athletic Training
Family and Consumer Sciences

Health Education
Health Sciences: Gerontology, Health Services Administration, Occupational Therapy Emphasis, Physical Therapy Emphasis
Interior Design
Kinesiology
Medical Technology
Nuclear Medicine Technology
Nutrition/Dietetics
Radiography
Speech-Language Pathology

Bachelor of Science in Education

Health Sciences
Family and Consumer Sciences Education
Kinesiology and Physical Education

Bachelor of Science in Nursing

Master of Science

Health Education
Health Systems
Family and Consumer Sciences: nutrition/dietetics, clothing, textiles and fashion
Kinesiology: exercise science, pedagogy, sport leadership
Occupational Therapy: advanced degree with role emphases in education, management, and clinical practice
Physical Therapy (entry level and advanced)
Speech-Language Pathology

Master of Science in Nursing

Advanced Nursing Practice

Doctoral Dinica769 -2.29h EdPI TherTj2

Chair and Professor: Dr. Harlan, 450-5959

Associate Professor: Dr. Shock

Assistant Professor: Dr. Brown

Instructors: Ms. Bennett, Ms. Coffman, Ms. Crook, Dr. Davis, Ms. Moody

PURPOSES

The family and consumer sciences programs at the baccalaureate and master's levels are designed to prepare professionals for employment in broad career options. Graduates are employed in business, education, healthcare facilities, industry, government, community agencies, and other organizations.

The focus of family and consumer sciences is on the individual, the family, and the interaction between families and their changing social and physical environments. The curriculum provides professional preparation built upon an interdisciplinary knowledge base drawn from research in family and consumer sciences; the arts; and the biological, physical, and social sciences.

The Bachelor of Science degree in family and consumer sciences has three options. The student may select a specialization in interior design, dietetics, or general family and consumer sciences. The general family and consumer sciences degree prepares students to enter the post-baccalaureate program leading to a secondary teaching certificate.

The Master of Science degree in family and consumer sciences has three specialization tracks including nutrition and foods; clothing, textiles, and fashion; and family and consumer sciences. The graduate student may select the thesis or non-thesis option. The dietetic internship program is accredited by American Dietetic Association.

THE HONORS PROGRAM IN FAMILY AND CONSUMER SCIENCES

Junior and senior students majoring in family and consumer sciences who demonstrate exceptional interest and ability may be invited to enter the honors program. This program is designed to introduce the student to research methods in one of the specialization areas of family and consumer sciences. In addition to the planned curriculum, the student will enroll in FACS 4301 Research in Family and Consumer Sciences and will conduct an investigation of a topic approved by the instructor. The resulting research paper will be evaluated by at least three members of the FACS faculty.

ASSOCIATE OF APPLIED SCIENCE PROGRAM IN CHILD CARE MANAGEMENT

Graduates of this two-year degree program will be trained in understanding and dealing with young children, planning programs for pre-

school centers, supervision of personnel, planning nutritional and health needs, and working with families.

The degree of Associate of Applied Science requires the successful completion of 60 hours, including the following:

ART (3 hours); WRTG 1310, 1320; H ED 2200 or KPED (2 hours); HIST 2301 or 2302 or PSCI 1330; MGMT 2341 or FACS 3311; MATH 1360; MUS (1 hour); PHYS 1400 or BIOL 1400 or CHEM 1400; SOC 1300; SPTA 1300; FACS 1300, 1331, 2301, 2320 or 2341, 2401, 2351, 3318, and 3 hours FACS elective.

BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

The degree of Bachelor of Science, with a major in family and consumer sciences, requires successful completion of a minimum of 124 hours, including (1) the general education component; (2) degree requirements; (3) family and consumer sciences requirements; and (4) supporting requirements. The Bachelor of Science in general family and consumer sciences prepares students for a variety of career opportunities and provides the prerequisites required to enter a graduate program for a secondary teacher's license. No minor is required.

Dietetics Specialization 44 hours

Major requirements: FACS 1300, 2310, 2311, 2341, 2351, 3250, 3311,

Major requirements: FACS 1300, 1370, 2310, 2311, 2341, 2351, 2360, 2390, 3300, 3311, 3318, 3372, 3456, 4355 or substitute courses with approval of the department chair. No minor is required.

Supporting requirements: ART, 3 hours.

Minor in Family and Consumer Sciences 18 hours

Eighteen hours of family and consumer sciences, 3 hours of which must be upper-division, may be selected from various areas of family and consumer sciences and approved by the department chair.

The minor is offered for students who desire family and consumer sciences for cultural and personal value or for supporting work for a related major.

DIETETIC INTERNSHIP

The dietetic internship is a supervised dietetic practice and study program accredited by the American Dietetics Association. The dietetic internship meets performance requirements for eligibility to write the ADA registration exam to become a registered dietitian.

4374 MEDICAL NUTRITION THERAPY II A required course for dietetic majors. Continued study of nutrition in therapeutic dietary treatment of nutritional problems in disease states. Includes in-depth case studies. Lecture/discussion. Prerequisite: FACS 4325. Spring.

4395 NUTRITION: CONTEMPORARY ISSUES An elective course. An emphasis on nutritional needs of individuals, the influence of nutrition on physical appearance and performance, and controversial issues affecting dietary health. Lecture/discussion. On demand.

Textiles and Clothing Courses

1370 CLOTHING CONSTRUCTION A required course for the general FACS major. The course includes fundamental principles of clothing construction and fitting of garments using commercial patterns. Lecture/laboratory. Fall.

2360 TEXTILES A required course for the interior design and general FACS major. The course includes a study of the fundamental weaves, yarns, fibers, colors, and finishes with reference to selection of fabrics for clothing and home furnishings. Lecture/discussion. Fall, spring.

2380 ADVANCED CLOTHING CONSTRUCTION An elective course for the general FACS major. The course focus is planning clothing needs of the individual or family. Design and construction of garments from synthetic and wool fabrics is included. Lecture and laboratory. Prerequisite: FACS 1370. On demand.

3360 CONSUMER PROBLEMS IN CLOTHING A required course for the general FACS major. A study of the sociological, psychological, and economic aspects of clothing selection; wardrobe management; professional image and apparel evaluation. Workshop format. Spring.

3361 TAILORING An elective course for majors and non-majors. The course includes techniques in hand-tailoring and machine-tailoring of garments from synthetic and wool fabrics. Lecture and laboratory. Prerequisite: FACS 2380. On demand.

Child and Family Life Courses

1331 CHILD CARE CURRICULUM A required course for the child care management major. The course includes guidelines for planning curriculum, teaching techniques, equipment, supplies, and use of materials for working with children ages two months to five years. Lecture. On demand.

2301 ADMINISTRATION OF CHILD CARE A required course for the child care management major. The course includes a study of administration and organization of child care for young children ages two months through five years. Emphasis is on purchasing equipment and supplies, supervision of personnel, program planning, directing work with children, and working with parents. Lecture. On demand.

2341 LIFESPAN DEVELOPMENT A required course for dietetic and general FACS majors. A study of the physical, cognitive, social, and emotional development, and changes of the individual over the life span. Lecture with directed field experience required. Fall, spring.

2351 FAMILY RELATIONS A required course for all FACS specialization areas. The focus is on issues confronting the family including study of marriage, and single, group, and family living through stages of the family life cycle. Lecture. Fall, spring.

2401 INTERNSHIP IN CHILD CARE MANAGEMENT A required course for the child care management major. The course includes a supervised work experience with an established child care administrator under the supervision of a UCA faculty member. Internship. Prerequisite: FACS 1331 and 2301. On demand.

3318 PARENT ISSUES A required course for the general FACS and child care management major. The course is a study of the brAILORIN fabricsb2 ACS 1334ELOPOn de10fabricsb248 Prerequis TcLermnfrUCA facinT*uct The0cour

Interior Design Courses

2390 INTRODUCTION TO INTERIOR DESIGN A required course for the interior design and general FACS major. The course will include application of design fundamentals to elementary problems of interior design. Lecture with studio assignments. Fall, spring.

2391 INTERIOR DESIGN STUDIO A required course for the interior design major. A studio course for the exploration and application of design methodology to interior environments. Studio. Prerequisite: FACS 2390 with grade of C or better or consent of instructor. Fall, spring.

2392 INTERIOR DESIGN DRAWING AND RENDERING A required course for interior design majors. A studio course in media application for the interior design process. Studio. Prerequisite: FACS 2391 with grade of C or better. Fall.

3300 HOME PLANNING A required course for interior design and general FACS majors. The course includes a study of architectural styles, planning of a home, and analysis of environmental and economic resources. Workshop. Prerequisite: FACS 2390 and 2360 with grade of C or better. Spring.

3305 INTERIOR LIGHTING AND CODES A required course for the interior design major. The course includes an analysis and application of lighting standards and codes necessary for programming, problem solving, and space planning of interior spaces. Lecture/discussion with studio applications. Prerequisite: FACS 2391 with grade of C or better. Fall.

3315 RESIDENTIAL INTERIOR DESIGN

Chair and Professor: Dr. Fox, 450-3194

Professors: Dr. Hubbard, Dr. Lammers

Associate Professors: Dr. Lewers, Dr. Pierce, Dr. Rainey

Assistant Professors: Dr. Jerome, Dr. Gliemi

Instructor: Mr. Oliver

PURPOSES

The basic aims of the Department of Health Sciences are to (1) contribute to the general health promotion and education of all students and (2) provide advisement/counseling, comprehensive professional preparation, and foundation courses designed to prepare students for careers as health-care professionals, health educators, health promotion directors, and coordinators in private or community settings.

BACCALAUREATE DEGREES

Bachelor of Science in Community Health

The Bachelor of Science degree with a major in community health education requires successful completion of 124 hours, including (1) the general education component; (2) degree requirements; and (3) major courses as listed below.

Note: Admission to the Bachelor of Science degree program, with a major in community health education, requires an overall GPA of 2.3 (on a 4.0 scale). However, enrollment in health sciences internship

Related Requirements 23 hours

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.

TOTAL 126 hours

Health Services Administration Emphasis

Degree Requirements 40 hours

BIOL 2405 and 4 hours of BIOL electives; CHEM 1403 or 1451; PHYS 1420; H SC 3123; PSYC 1300; H ED 2201; BIOL 4311, 4351; H SC 4600; H ED 3315, 4301.

Related Requirements 36 hours

INFO 2343; ECON 2320, 2321; ACCT 2310, 2311, and 3321; FINA 3330; MGMT 3344; MKTG 3350. INFO 2343 and ACCT 2310, ACCT 2311, ECON 2320, ECON 2321 and a statistics course should be completed prior to enrollment in upper-division courses. Nine hours of H ED electives are required.

TOTAL 125 hours

Occupational Therapy Emphasis

The curriculum leading to the Bachelor of Science in health sciences, occupational therapy emphasis, requires 25 hours of prerequisite coursework, in addition to general education requirements and 54 hours in the major. A total of 126 hours are required for the degree. For more information, see the Occupational Therapy section (p. xx).

Physical Therapy Emphasis

Degree Requirements 36–37 hours

BIOL 2406, 2407, 3450, 3370, BIOL elective (2411 or 4311 or 4351);

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, spring.

4312 DRUG EDUCATION Elective. An overview of the major drugs of use and abuse and their effects on the individual, family, and society. This course emphasizes educational strategies that address prevention of the problems created by drug abuse. Fall, spring, summer.

4331 PROGRAM PLANNING AND EVALUATION Core for BS in health education. Theories and models are applied in diagnosis, plan-

ning, implementation, and evaluation of health education programs. Lecture/discussion, projects. Fall, spring.

4343 HEALTH STRATEGIES FOR MULTICULTURAL POPULATIONS Required for selected majors in College of Health and Applied 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 SCHOOLS Elective. Provides the elementary teacher with skills and techniques for teaching a specially designed health curriculum. Lecture/discussion, projects. On demand in summer.

4351 HEALTH EDUCATION TECHNIQUES IN THE MIDDLE SCHOOLS Elective. Provides the middle school teacher with skills and techniques for teaching a specially designed health curriculum. Lecture/discussion, projects. On demand in summer.

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

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.

4370 ADMINISTRATION OF HEALTH PROGRAMS Core for BS in health education. Organization and administration of health programs. Lecture/discussion, projects. Prerequisite: H ED 1320 or 2200. Fall, spring.

4395 CONTEMPORARY HEALTH CONCERNS—WOMEN Elective. Focuses on preventive health practices unique to women and application of self-help skills needed to cope with the health care system with confidence and competence. Social, psychological, political, and economical factors that influence women's health are addressed. Lecture/discussion, projects. Fall, spring.

4396 CONTEMPORARY HEALTH CONCERNS—MEN Elective. Focuses on preventive health practices unique to men and application of self-help skills needed to cope with the health care system with confidence and competence. Social, psychological, political, and economic factors that influence men's health are addressed. Lecture/discussion, projects. Fall, spring.

4600 HEALTH SCIENCES INTERNSHIP Core for BS in health education and BS in health sciences, emphasis in health services administration. Directed field experiences provided in community health agencies and medical related settings. Projects. Fall, spring, summer.

2101, 2202, 2302 WORKSHOP IN HEALTH EDUCATION Elective. Specific topics dealing with current issues and problems in health education. Lecture/discussion, projects. On demand in summer.

4414, 4214, 4314 WORKSHOP IN HEALTH EDUCATION Elective. Specific topics dealing with current issues and problems in health education. Lecture/discussion, projects. On demand.

COURSES IN HEALTH SCIENCES (H SC)

3123 MEDICAL TERMINOLOGY Required for the BS in health sciences, emphasis in health services administration. Fundamentals of medical etymology and abbreviations as a basis for building a professional vocabulary. Independent study. Fall, spring.

4210 PRINCIPLES OF PATIENT CARE Elective. Psychological and sociological aspects of disability. Lecture/discussion. On demand.

4305 TECHNOLOGY APPLICATIONS IN THE HEALTH SCIENCES Elective. Explores computer-assisted health instruction/training; computerized health assessments; health promotion and the Internet; common uses of spreadsheets, databases, presentation, and desktop publishing software. Lecture/discussion, projects. Fall, spring.


4310 FUNCTIONAL NEUROANATOMY Required for BS in health sciences, emphasis in physical therapy. Structure and function of the peripheral, central, and autonomic nervous systems, including laboratory study of specimens of the human brain and spinal cord. Emphasis on the application of principles to clinical problems. Lecture. Prerequisite: consent of instructor. Fall, spring.

4400 GROSS ANATOMY Required for BS in health sciences, emphasis in occupational therapy. Structural aspects of the human body. Lecture and laboratory study of prosected cadaver specimens. Prerequisite: Consent of instructor. Fall, spring.

Chair and Associate Professor: Dr. Howell, 450-3148

Professors: Dr. Hattlestad, Dr. Ishee, Dr. Titlow

Assistant Professors: Dr. Kendrick

 **Instructors:** Ms. Harper, Ms. Horan, Mr. Hughes, Mr. Strickland

PURPOSES

The objectives of the instructional program of the Department of Kinesiology and Physical Education are separated into two areas of responsibility:

1. The department contributes to the general education of all students in the university through courses designed to establish a program of activity with primary emphasis on the development of lifetime physical fitness and knowledge and appreciation of movement, games, and sports.
2. Professional preparation at the undergraduate and graduate levels is provided for students desiring to (a) teach physical education or coach within the public schools, (b) work in the corporate/community fitness sector or recreational agencies, or (c) serve as athletic trainers.

BACCALAUREATE DEGREE PROGRAMS

Bachelor of Science in Education and Bachelor of Science in Kinesiology with Elementary or Secondary Physical Education Emphasis

Note: Teacher preparation programs in physical education/health are currently under review and revision. For further information, contact the Chair of the Department of Kinesiology and Physical Education (450-3148), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

Bachelor of Science in Kinesiology, Emphasis in P–8, 7–12 Physical Education

Successful completion of this degree meets prerequisite requirements for admission to the post-baccalaureate teacher licensure program.

The degree of Bachelor of Science with a major in kinesiology and an emphasis in P–8, 7–12 physical education, requires successful completion of a minimum of 130 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, 7–12 school health (see Health Sciences, p. 82). 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 course work.

Major in Kinesiology

Fitness Test. All kinesiology and physical education majors must complete a physical fitness test administered by the department.

failing to meet minimum standards on all items. Students may retest as many times as desired. All items must be passed prior to the completion of the sophomore year. Failure to pass all items jeopardizes enrollment in upper-division kinesiology course work.

Portfolio. All kinesiology and physical education majors must complete and present a developmental portfolio to kinesiology and physical education faculty in the semester the student has earned a minimum of 44 semester hours but less than 61 semester hours. All kinesiology and physical education majors must complete and present a showcase portfolio to the kinesiology and physical education faculty during the semester the student applies for graduation.

Proficiencies. P–8, 7–12 kinesiology majors will be expected to show proficiency in seven sports. Proficiencies will be required in a minimum of two team sports; two individual sports; and one dance, one fitness, and one outdoor education and recreational games. A student must take the related teaching course in order to earn a proficiency. It is the student's responsibility to verify with the instructor that a proficiency has been earned at the conclusion of a course or to identify the areas that are deficient. Proficiency tests must be passed in conjunction with the course or within one calendar year following successful completion of the course.

KPED core curriculum 23 hours

KPED 2300, 2340, 2381, 3331, 3382, 4230, 4300, and 4320.

P–8, 7–12 Emphasis Requirements 25 hours

KPED 2203, 2215 or 2216, 2223, 2350, 3316, 3330, 3363, 4351; 4 hours selected from the following courses KPED 2212, 2222, 2224, 2225, 2226, 2227, 2228, 2229 and 3200. Please note proficiency requirements listed above.

Coaching Requirements 4 hours

Two coaching courses must be selected from the following: KPED 3210, 3211, 3212, 3213, or 3214.

Recommended courses for prospective coaches (elective): KPED 2395, 3315, 3240, and 4395.

COACHING ENDORSEMENT

For current information about certification/licensure issues related to coaching, contact the Chair of the Department of Kinesiology and

Related Requirements 23 hours

BIOL 1441, 2405, 4351; FACS 1300, 4315; HED 2201, 3123; PSYC 1300.

Professional Program In Athletic Training

The athletic training professional program consists of a minimum of six full semesters of study during which students are engaged in both classroom work and field (clinical) experiences. A minimum of 270 field experience hours per semester is required. In addition to tuition and fees, textbooks, materials, and uniforms for athletic training courses will cost approximately \$400.00 a semester. Students are responsible for their own transportation to and from field (clinical) experience.



Admissions to the Athletic Training Education Program

Admission to the undergraduate athletic training education program is selective and competitive. Preference is given to University of Central Arkansas pre-athletic training students. Applications are due by March 15 for admission into the following fall athletic training class. One class is admitted each year. Applications are available from and



1102 SQUARE DANCE An elective kinesiology and physical education course. Students are introduced to the basic skills and techniques of square dance. Activity and lecture. On demand.

Lifetime Fitness

1104 AEROBIC DANCE An elective kinesiology and physical education course. Students will be introduced to the basic physiological principles associated with aerobic step training and interval training. Activity and lecture. Every semester.

1105 ADVANCED AEROBIC DANCE An elective kinesiology and physical education course. This course provides students an opportunity to gain in-depth understanding of the benefits of aerobic dance in improving fitness. Students must perform an advanced level of dance and exercise skills. Prerequisite: KPED 1104 or consent of instructor. On demand.

1113 SWIMMING FOR FITNESS An elective kinesiology and physical education course. This course is designed for students who want to improve fitness through an individualized swimming program. Primary methods of instruction include activity and lecture. On demand.

1125 CONDITIONING ACTIVITIES An elective kinesiology and physical education course. This course focuses on the development of student-designed exercise programs to improve fitness through the use of various exercise modes (e.g., free and universal weights, walking and jogging, swimming). Activity and lecture. Fall, spring.

1135 BEGINNING WEIGHT TRAINING An elective kinesiology and physical education course. This course teaches students how to use weight-training apparatus. The basic lifts of weight-training and the knowledge necessary to develop personal weight training programs is covered. Activity and lecture. Fall, spring.

1145 BEGINNING WALKING/JOGGING An elective kinesiology and physical education course. This course teaches students how to properly use walking/jogging as a means of developing and maintaining cardiovascular fitness throughout life. Activity and lecture. Fall, spring.

1291 PRINCIPLES OF LIFETIME FITNESS An elective kinesiology and physical education course. This course stresses physical activities as a means of developing and maintaining physical fitness throughout life and introduces students to a variety of lifetime physical activities while encouraging the development of physical fitness as part of the class. Activity and lecture. On demand.

Aquatics

1110 BEGINNING SWIMMING An elective kinesiology and physical education course. Basic water adjustment skills, swimming strokes, and safety skills according to the American Red Cross beginner- and advanced beginner-level program. Activity and lecture. On demand.

1111 ADVANCED SWIMMING I: LIFEGUARDING An elective kinesiology and physical education course. This course is the study and practice of lifesaving techniques, knowledge, and skills preparing students for lifeguarding certification by the American Red Cross. Prerequisite: Students must possess swimmer-level skills (i.e., swim 500 yards using required strokes, tread water without use of arms for two minutes, and retrieve 10 pound object from 7 feet of water). Activity and lecture. On demand.

1112 INTERMEDIATE SWIMMING An elective kinesiology and physical education course. This course introduces students to swimming strokes and safety skills according to the American Red Cross intermediate-level program. Activity and lecture. On demand.

3100 ADVANCED SWIMMING II: WATER SAFETY INSTRUCTOR An elective kinesiology and physical education course. This course provides experiences in perfecting and teaching water skills to meet requirements for American Red Cross instructor certification. Prerequisite: Students must possess swimmer-level skills. Activity and lecture. On demand.

Outdoor Leisure Pursuits

1126 BEGINNING ARCHERY An elective kinesiology and physical education course. This course introduces students to the basic skills and techniques of target shooting. Activity and lecture. On demand.

1129 ORIENTEERING An elective kinesiology and physical education course. This course introduces students to outdoor skills that increase awareness of the physical environment and physical fitness. Activity and lecture. On demand.

1130 BASIC CANOEING An elective kinesiology and physical education course. This course introduces students to the basic skills and knowledge of canoeing including safety procedures and recreational aspects. Activity and lecture. On demand. (Note: An additional fee will be charged to cover equipment rental and maintenance.)

1180 MARKSMANSHIP AND HUNTER SAFETY An elective kinesiology and physical education course. This course introduces students to marksmanship techniques and safety procedures used in the proper handling of guns. Activity and lecture. On demand.

Sports and Games

1121 BEGINNING TENNIS An elective kinesiology and physical education course. This course introduces students to the basic strokes, history, rules, and strategy of the game. Activity and lecture. Fall, spring, summer.

1122 BEGINNING GOLF An elective kinesiology and physical education course. This course introduces students to the basic strokes, rules, history, and strategy of the game. Activity and lecture. On demand. (Note: Bowling and golf classes are held at commercial establishments; a participation fee based on current prices will be charged.)

1123 BOWLING An elective kinesiology and physical education course. This course introduces students to basic skills and techniques, rules, and scoring of the game. Activity and lecture. Every semester, summer. (Bowling and golf classes are held at commercial establishments; a participation fee based on current prices will be charged.)

1124 BEGINNING VOLLEYBALL An elective kinesiology and physical education course. This course provides students the opportunity to learn the basic skills and terminology of volleyball. Activity and lecture. Every semester.

1127 BEGINNING BADMINTON An elective kinesiology and physical education course. This course introduces students to the basic skills, techniques, and strategies of the game. Activity and lecture. Fall, spring.

1128 BEGINNING GYMNASTICS; WOMEN An elective kinesiology and physical education course. This course introduces students to the basic skills and techniques of tumbling, balance beam, vaulting, and uneven bars. Activity and lecture. On demand.

1173 BEGINNING GYMNASTICS; MEN An elective kinesiology and physical education course. This course introduces students to the basic skills and techniques of tumbling, rings, vaulting, and parallel bars. Activity and lecture. On demand.

1181 RACQUETBALL An elective kinesiology and physical education course. This course introduces students to the basic skills, rules, and strategies of the game. Activity and lecture. On demand.

1191, 1192, 1193, 1194 ADAPTED PHYSICAL EDUCATION ACTIVITIES An elective kinesiology and physical education course designed for students with special needs. This course provides an individualized exercise prescription designed to enhance students' physical capabilities. May be repeated up to four times. Activity and lecture. Prerequisite: Consent of Instructor and written clearance by physician's authorization.

COURSES IN KINESIOLOGY AND PHYSICAL EDUCATION (KPED)

1320 CONCEPTS OF LIFETIME HEALTH AND FITNESS A required general education health studies course designed to help students adopt and maintain the behaviors associated with an active and healthy lifestyle. The course uses a team-teaching approach between the Department of Kinesiology and Physical Education and the Department of Health Sciences. Primary methods of instruction include lecture/discussion, interactive video, student participation in a health-risk appraisal, a behavior-change project, journal writing, fitness-assessment laboratories, a fitness prescription and implementation, and required participation in a 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.

1350 INTRODUCTION TO ATHLETIC TRAINING A prerequisite course required of all students considering athletic training as a career. This course introduces athletic training as a profession, outlines its history and the role of the National Athletic Trainers' Association (NATA), and exposes students to the professional preparation of athletic trainers and their role as health care professionals. In required weekly laboratories and training room observations, students will also learn the basis of organization, care, prevention, and recognition of athletic injuries and illnesses. Lecture, discussion, laboratory, and required training room observations. Hours spent in this setting will not be used to meet certification eligibility. Prerequisite: None. Spring.

2201 BASIC RHYTHMICS A course required of kinesiology and physical education majors. This course introduces students to the development of sequential fundamental movement patterns, creative rhythms, singing games, basic folk, round, and square dance. Lecture, activity, micro-teaches, and a required 15-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

2203 GAMES FOR ELEMENTARY GRADES A course required of kinesiology and physical education majors. This course introduces students to the sequential development of individual and group game skills through drills, relays, line, circle, tag, lead-up, and classroom games. Lecture, activity, and a required 15-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

**Proficiencies are earned in the teaching courses KPED 2212,
lines its his-**

2215 TEACHING GYMNASTICS: WOMEN An elective individual-sport course of kinesiology majors and athletic training majors. This course emphasizes the rules, skills, and strategies used to participate in and teach gymnastics. 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.

2216 TEACHING GYMNASTICS: MEN An elective individual-sport course for kinesiology and physical education majors and athletic training majors. This course emphasizes the rules, skills, and strategies used to participate in and teach gymnastics. 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.

2222 TEACHING RACQUETBALL An elective individual-sport course for kinesiology and physical education majors. This course emphasizes the rules, skills, and strategies used to participate in and teach racquetball. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major or minor status or consent of instructor. On demand.

2223 TEACHING OUTDOOR EDUCATION AND RECREATIONAL GAMES A required course for kinesiology and physical education majors. Course content is presented in two half-term sessions. The outdoor–education section introduces students to a variety of individual and team self-testing activities while the recreational–games section covers a variety of individual and dual games. Both sections emphasize the importance of and benefits from the inclusion of these types of activities in the physical education curriculum and in the individual's use of leisure time. Lecture, activity, micro-teaches, and a required field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Spring, summer.

2224 TEACHING SOCCER AND BASKETBALL An elective team-sport course for kinesiology and physical education majors and athletic training majors. Course content is presented in two half-term sessions. This course emphasizes the rules, skills, and strategies used to participate in and teach soccer and basketball. Lecture, activity, micro teaches, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Fall.

2226 TEACHING VOLLEYBALL AND TRACK AND FIELD An elective team-sport course for kinesiology and physical education majors and athletic training majors. Course content is presented in two half-term sessions. The course emphasizes the rules, skills, and strategies used to participate in and teach volleyball 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 ROUND AND FOLK DANCE An elective course of kinesiology and physical education majors. Course content is presented in two half-term sessions. The course emphasizes the history

and fundamentals of round and folk dancing from various countries 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 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 skills involved in ballroom dance 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.

2300 PRINCIPLES OF KINESIOLOGY AND PHYSICAL EDUCATION A core course for kinesiology and physical education majors and athletic training majors. This course provides an overview of physical education, exercise science, and athletic training and an examination of historical, biological, psychological, sociological, and curricular foundations impacting the discipline. Lecture, activity, and required professional activities scheduled outside of class meeting times. Prerequisites: Sophomore classification and major status or consent of instructor. Fall, Spring.

2322 RECREATION LEADERSHIP An elective course for kinesiology and physical education majors. This course introduces students to the skills and techniques needed to conduct a variety of school and community recreation activities. Lecture, cooperative learning, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

2340 MOTOR DEVELOPMENT AND LEARNING A core course required of kinesiology and physical education majors and athletic training majors. This course emphasizes a lifespan approach to the study of motor development and motor learning. The motor development portion of the course emphasizes stage theories and developmental task analysis focused on motor skill acquisition. The motor learning and behavior section covers the processes underlying skilled performance, including how skill performances are learned and how to apply the principles of performance and learning in teaching, coaching, and rehabilitation settings. Lecture, laboratory, use of specialized computer software, videotapes, student presentations, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisites: Sophomore classification and major status or consent of instructor. Fall, spring.

2350 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 rhythmical 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, spring, summer.

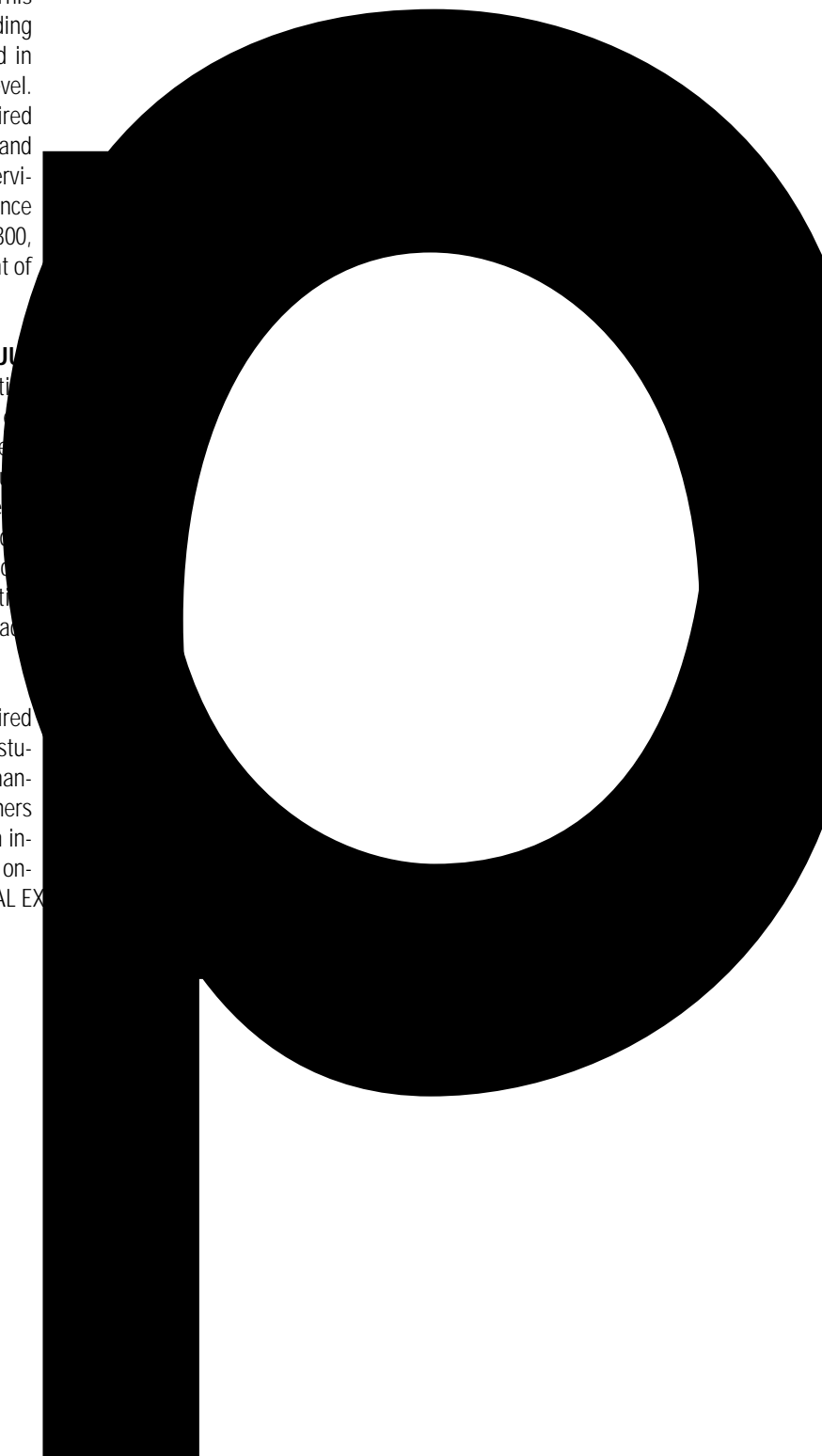
2381 ANATOMICAL KINESIOLOGY A core course required of ki-

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, CHED 3400, and SPED 3310. On demand.

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: KPED 2300, 2340, and 2381; junior classification; and major status or consent of instructor. Fall, spring, summer.

3331 CARE AND PREVENTION OF EXERCISE AND SPORT INJURIES A core course required of kinesiology and physical education majors, athletic training 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. Fall, spring, summer.

3340 ATHLETIC TRAINING CLINICAL EXPERIENCES I A required course for athletic training majors. This course is designed for student athletic trainers to gain knowledge of and experience in handling injuries occurring in collision sports. Student athletic trainers will attain information regarding a variety of injuries (e.g., brain injury, fractures, dislocations, wound management, and emergency on-scene care). Prerequisite: 3331 or 3330. Fall, spring, summer.





junior or senior classification; and major status or consent of instructor. On demand.

4390 SPECIAL PROBLEMS IN KINESIOLOGY AND PHYSICAL EDUCATION A course of directed study and independent work in a chosen area in kinesiology and physical education, exercise science,



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Chair: Lt. Col. James Lampkin 450-3145

PURPOSES

The Department of Military Science commissions the future officer leadership of the United States Army. The Reserve Officers Training Corps (ROTC) offers each student the opportunity to serve in the US Army on active duty or remain in Arkansas and serve in the Army National Guard or the US Army Reserve while pursuing a civilian career after graduation.

Regardless of the career choice, success in life today demands more than ever the right preparation. Education is essential, but the growing proportion of Americans going to college has lessened the diploma's role as an automatic entree to the best jobs. Employers are demanding something more. Army ROTC provides hands-on, performance-oriented leadership and management training. Army ROTC is the competitive edge for the success-oriented college student.

GENERAL INFORMATION

Registration. Registration for military science is accomplished at the same time and in the same manner as other courses. There is no additional tuition cost for full-time students. All required books and equipment are provided at no cost to the student.

Military Service Obligation. There is no military obligation for students taking freshman and sophomore military science courses. (Freshman and sophomore military science students attending college on Army ROTC scholarships are obligated by their contracts.)

Scholarships. Four-year scholarships are available on a competitive basis to high school seniors who plan to enroll in Army ROTC. In addition, two and three year scholarships are available on a competitive basis to UCA students. These scholarships pay tuition, fees, \$450 per year for books, and \$200 per month (\$200 per month, tax free, for ten months during the school year). A limited number of room and board grants are also available.

Advanced Course Subsistence Allowance. All scholarship students and contracted advanced course students receive up to \$2,000 during the school year. The subsistence allowance is paid in addition to the Montgomery GI Bill or other benefits an individual may receive. Additionally, members of the Army Reserve and National Guard may continue to receive their drill pay and are promoted to Sergeant (E-5) for pay purposes while participating in the Simultaneous Membership Program.

BASIC COURSE

The basic course (taken by freshmen and sophomores) consists of MILS 1101, 1110, 2204, and 2213. MILS 1101 and 1110 meet one hour in class and once a month for a leadership lab which consists of practical applications of current leadership topics, as well as learning to rappel and other military or survival skills. Basic course students can participate in many activities throughout the year which the military science department sponsors. These activities include rappelling, rifle marksmanship, color guard, ranger challenge team, military ball, field-training exercises, awards ceremony, physical-conditioning programs, battleground visitations, and many more. Qualified students may also attend airborne, air assault, or other Army skills schools.

ADVANCED COURSE

The advanced course consists of MILS 3305, 3306, 4307, and 4308 and a five-week ROTC leadership camp between the junior and senior years.

To enroll in the advanced course, students must meet eligibility and age requirements, be physically qualified, have two academic years to complete before graduation or reception of a graduate degree, have a grade point average of 2.0 or better, be accepted by the professor of military science and the president of the university, and be a US citizen.

Eligibility for the Advanced Course

Must have completed one of the following:

1. Complete basic course (two-year program),
2. Summer Basic Camp at Ft. Knox (five weeks prior to junior year),
3. Three years of high school Junior ROTC experience,
4. Veteran, or
5. Member of National Guard or Reserve and completed basic training.

NOTE: Each contracted cadet must meet certain professional mili-

phasis is placed on physical conditioning and stamina. Prerequisite: Completion of all basic courses or equivalent. Fall.

3306 ADVANCED LEADERSHIP AND TACTICS II Part of the advanced course program and required of all students pursuing a commission in the US Army. A continuation of MILS 3305, includes planning and executing tactical missions in a field environment, day and night land navigation, intensive physical training, and leadership evaluation in discussion and laboratory. Emphasis is placed on planning, critical thinking, problem solving, teamwork, and presentation skills. Prerequisite: MILS 3305. Spring.

4307 APPLIED LEADERSHIP AND MANAGEMENT I Part of the advanced course program and required of all students pursuing a commission in the US Army. Students are introduced to upper-level management and staff duties. Topics include military justice, training management, social functions, and cadet evaluation system in discussion and laboratory. Prerequisite: MILS 3306. Fall.

4308 APPLIED LEADERSHIP AND MANAGEMENT II Part of the advanced course program and required of all students pursuing a commission in the US Army. Students perform battle analysis and staff ride in discussion and laboratory, plan and execute battalion training, and mentor junior cadets. Prerequisite: MILS 4307 or instructor approval. Spring.

NUCLEAR MEDICINE TECHNOLOGY

Advisor: Ms. Krupicki, 450-5541

THE PROFESSION

The nuclear medicine technologist (NMT) is a highly skilled professional who utilizes radioactive materials to image the function of different organs, analyze biologic specimens, and treat certain diseases. The responsibilities of the NMT are varied and can include radiation safety, quality control, radiopharmaceutical preparation and administration, the performance of diagnostic imaging procedures on patients, and computer acquisition and analysis of data. The NMT works closely with nuclear medicine physicians, radiologists, and referring patient physicians in order to ensure that each patient receives the highest quality study possible.

The program is accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association (AMA) in collaboration with the Joint Review Committee on Educational Programs in Nuclear Medicine Technology.

REQUIREMENTS

The Department of Health Sciences in cooperation with the Health Education Division of Baptist Medical Center (BMC) offers a bachelors degree in nuclear medicine technology. The degree requirements consist of three years and 77 hours of course work at UCA and 47 hours taken over 12 months at BMC. Students may transfer into the program, but a minimum of nine months and 30 hours of residence at UCA is required. Students must apply to the professional phase of the program at BMC, and acceptance is on a competitive basis.

Curriculum at UCA 77 hours

(1) General education requirements; (2) CHEM 1450, 1451, 2401; MATH 1390; BIOL 1440, 2405; ECON 2330; CSCI 1300; PHYS 1410, 1420; Statistics (MATH 2311 or PSYC 2330); and other electives (4 hours).

Professional Curriculum at BMC 47 hours

NMT 4210, 4415, 4510, 4420, 4425, 4410, 4430, 4315, 4325, 4330, 4435, 4320, 4215, 4220.

COURSES IN NUCLEAR MEDICINE TECHNOLOGY (NMT)

4210 PRACTICUM I Introduction to clinical imaging.

4410 PRACTICUM II Intermediate techniques in clinical imaging, radioimmunoassay, radiopharmaceutical preparation, and radiation safety techniques.

4510 PRACTICUM III Advanced techniques in clinical imaging, radioimmunoassay, radiopharmaceutical preparation, computer techniques, and radiation health physics.

4415 PATIENT CARE Principles and techniques of patient care including cardio-pulmonary resuscitation (CPR) certification, patient transport, ECG monitoring, physical assessment, pharmacology, venipuncture, and IV therapy. Emphasis is placed on skills that are used by the technologist in the clinical setting.

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 Comprehensive study of the theory and methodology of imaging the different systems in the body, including rationale and indications for the study, patient preparation, radiopharmaceuticals used, imaging techniques, computer processing applications, and diagnostic interpretation. Each section will be correlated with laboratory studies and clinical exams performed in the clinical setting.

4325 IN VIVO NUCLEAR MEDICINE II Continuation of In Vivo Medicine I.

4435 IN VIVO NUCLEAR MEDICINE III Continuation of In Vivo Nuclear Medicine II.

4430 RADIOPHARMACY/RADIONUCLIDE THERAPY Fundamental principles of radiopharmacology, including radiopharmaceutical preparation and quality control, biochemical and physiological properties of radiopharmaceuticals, methods of localization and alterations of distribution, and the therapeutic use of radionuclides in medicine.

4315 INSTRUMENTATION/STATISTICS I Principles of operation and quality control of non-imaging nuclear medicine equipment to include statistical applications.

4320 INSTRUMENTATION/STATISTICS II Principles of operation and quality control of collimated radiation detectors with emphasis on statistical applications.

4330 RADIOIMMUNOASSAY Methodology involved in radioimmunoassay to include competitive binding, antigen-antibody reactions, and radioligand procedures. Includes the operation of laboratory instruments and equipment.

4215 RADIATION HEALTH PHYSICS Principles involved in minimizing exposure to patient, self, and environment are discussed. Included are techniques for measuring levels of radioactive contamination, procedures for decontamination, and a general overview of government regulations regarding exposure and material handling. Laboratory included.

4220 RADIOBIOLOGY Biological effects of the exposure of living tissue to ionizing radiation, including chronic and acute effects and the relative sensitivity and resistance of organ systems, tissues, and cells to radiation.

Chair and Professor: Dr. Williams, 450-3119

Professor: Dr. Bondy

Assistant Professors: Dr. Koenigseder, Dr. Lancaster, Dr. Stroman

Instructors: Ms. Crane, Ms. Enderlin, Ms. Galloway, Ms. Gatto, Ms. Gordon, Ms. Hoffman, Ms. Jenkins, Ms. Lucy, Ms. Meaux, Ms. Sain, Ms. Walker

is recognized at commencement. See bulletin section Recognition of Academic Achievement for more information.

MASTER'S DEGREE

See *Graduate Bulletin*.

ACCREDITATION STATUS

The baccalaureate and master's programs are approved by the Arkansas State Board of Nursing, accredited by the National League for Nursing Accrediting Commission, and have been granted preliminary approval by the Commission on Collegiate Nursing Education.

UNITED STATES ARMY PARTNERSHIP IN NURSING EXCELLENCE

The Department of Nursing is nationally distinguished by the US Army as one of only a few Partners in Nursing Excellence. This designation provides numerous opportunities, including scholarships, for individuals who have both nursing and military career goals. For information contact either the department of Military Science at (501) 450-3145 or contact the Department of Nursing at (501) 450-3199.

ADMISSION TO THE NURSING MAJOR

Admission is selective and competitive. Preference is given to University of Central Arkansas pre-nursing students. Applications are due by March 1 for the following fall sophomore nursing class. One class is admitted each year. Applications are available each January and may be obtained by calling or writing to the UCA Department of Nursing.

Minimum admission criteria include:

1. Minimum GPA of 2.5;
2. Completion, with a minimum grade of C, of WRTG 1310 and 1320, MATH 1390, CHEM 1402 and 2450 or CHEM 1450 and 1451, BIOL 1400 or BIOL 1440 and 2405 or BIOL 2406 and 2407, PSYC 1300, SOC 1300, and FACS 1300;
3. Successful completion of written evaluation; and
4. Complete application.

A more detailed list of criteria should be obtained from the department.

PROGRAM OF STUDY FOR THE BSN DEGREE

The baccalaureate program consists of 34 hours of pre-nursing/pre-requisite courses and three years of nursing major, general education, and related major requirements. Courses in the professional major are sequentially planned. Each nursing course is usually offered only once each academic year.

**General Education
and Related Major Requirements 74 hours**

WRTG 1310 and 1320; ENGL 2305 or 2306; MATH 1390; PSYC 1300, FACS 2341, or PSYC 2370; PSYC 2330, PSCI 2312, SOC 2321, or MATH 2311; CHEM 1402 and 2450 or 1450 and 1451; BIOL 1400 or 1440, 2405 or 2406 and 2407, 2411, and 4311; SOC 1300; FACS 1300; HIST 1310 or 1320; PHIL 1301 or 2325; HIST 2301 or 2302 or PSCI 1330; MUS 2330, SPTA 2300, or ART 2300; SPTA 1300; KPED/H ED 1320; HIST 1310 or 1320 or ENGL 2305 or 2306 or REL 1320; and a 3-hour elective.

The following courses may be completed after admission to the major and require a minimum grade of C: BIOL 2411 and 4311; FACS 2341 or PSYC 2370; PHIL 1301 or 2325; PSYC 2330, SOC 2321, MATH 2311, or PSCI 2312.

Nursing Major Requirements 57 hours

NURS 2210, 2310, 2315, 2510, 3201, 3410, 3501, 3505, 3510, 4210, 4213, 4220, 4305, 4410, 4510, 4515.

PROGRESSION REQUIREMENTS

Upon acceptance into the nursing program, students are to present the first and second of the series of three Hepatitis B vaccinations. The third of the series may be completed after the start of school.

Students are to present yearly documentation each July:

1. American Heart Association Health Provider CPR certification valid through May of the school year;
2. TB skin test results valid through May of the school year; and
3. Current health/hospitalization insurance.

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

A minimum grade of C must be achieved to pass a nursing course and progress in the major.

The current edition of the *UCA Student Handbook* and the *Nursing Student Handbook: Baccalaureate Program* specifies the rules, regulations, and policies that apply to all UCA undergraduate nursing students. It is the responsibility of the student to know and follow the most recent policies and procedures.

READMISSION POLICY

If a student withdraws from any nursing course or from the nursing major for any reason (academic or non-academic) or fails to earn a minimum grade of C in any required nursing or specified non-nursing course, the student must be readmitted to enroll in other nursing

Readmission applications are available from the department. Applications are due to the department by October 1 for readmission to spring nursing courses and by March 1 for readmission to fall nursing courses.

A student, if readmitted, may repeat a specific nursing course only one time. The student who makes a grade of D, F, or WF in two nursing courses will be dismissed from the nursing program.

The department follows the university's policy of reserving the right to refuse the privilege of further attendance to a student when it has become evident that the student lacks the personal qualities, professional characteristics, or scholastic attainments essential for success.

COURSES IN NURSING (NURS)

2210 HEALTH ASSESSMENT Required of all students in the first semester of the nursing major. The course introduces students to systematic biophysical and psychosocial health assessment. Lecture/demonstration and laboratory experiences. Prerequisite: Admission to nursing major. Fall.

2310 PHARMACOLOGIC BASES FOR NURSING Required of all students in the first semester of the nursing major. The course introduces students to the theoretical knowledge and skills related to nursing responsibilities of pharmacologic therapy. Lecture/demonstration and laboratory experiences. Prerequisite: Admission to nursing major. Fall.

2315 HEALTH PROMOTION AND NURSING Required of all students in the first semester of the nursing major. The course introduces students to health promotion and fundamental theories, concepts, principles, and clinical skills of professional nursing practice. Methods of instruction include clinical practice and vary with nature of learning objectives and the instructor's teaching style. Prerequisite: Admission to nursing major. Pre- or corequisites: NURS 2210 and 2310; BIOL 2411. Fall.

2510 ADULT NURSING I Required of all students in the first year of the nursing major. The course introduces students to the identification of nursing diagnoses and treatment of adult clients' responses to selected health problems. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: NURS 2210, 2310, and 2315; BIOL 2411. Spring.

3113, 3213, 3313 SPECIAL STUDIES IN NURSING These elective courses are given on demand, are varied to meet the needs and interests of nursing students, and may include clinical practice with a preceptor. Prerequisite: Permission of the undergraduate coordinator.

3200 TRANSITION TO PROFESSIONAL NURSING Required of all RN and LPN/LPTN licensed students in their first semester in the nursing major. Builds upon the nurse's previous education and experience. Independent study and discussion. Prerequisite: Admission to the major. Fall.

3201 CLIENT EDUCATION Required of all students in the first year of the nursing major. The course assists students to incorporate client-centered teaching into professional nursing practice. Methods of instruction vary with the nature of learning objectives and the instructor's teaching style. Prerequisite: NURS 2315. Spring.

3410 ADULT NURSING II Required of all students in the second year of the nursing major. Students build on previous clinical courses and are assisted to apply the nursing process with adult clients experiencing life-disrupting and/or life-threatening health problems. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: NURS 2510, 3201, PHIL 2325 or 1301, FACS 2341 or PSYC 2370, BIOL 4311. Spring.

3501 MATERNITY NURSING Required of all students in the second year of the nursing major. The course focuses on nursing practice with childbearing families. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: NURS 2510, 3201, PHIL 2325 or 1301, FACS 2341 or PSYC 2370. Pre- or corequisite: BIOL 4311. Fall.

3505 PEDIATRIC NURSING Required of all students in the second year of the nursing major. The course focuses on nursing practice with children and their families. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: NURS 2510, 3201, FACS 2341 or PSYC 2370, PHIL 2325 or 1301, BIOL 4311. Spring.

Chair and Associate Professor: Dr. Shalik, 450-3192
Assistant Professors: Dr. Acre, Ms. Buddenberg, Dr. Willey
Instructors: Ms. Johnson, Ms. Mankey, Ms. White
Program Advisor: Ms. Cole, 450-5568

PURPOSE

The objective of the professional curriculum in occupational therapy

Once the student is admitted, the program consists of a minimum of five full-time semesters of study on campus. During this time, students are engaged in both classroom work and fieldwork experiences (minimum 80 hours per semester) at facilities in Arkansas and contiguous states. Following on-campus study, students are assigned to facilities in Arkansas and/or contiguous states for full-time fieldwork experiences of six months' duration. Students are responsible for their own transportation and living expenses throughout the program, including during fieldwork placements.



COURSES IN OCCUPATIONAL THERAPY (OTHY)

3340 CLINICAL CONDITIONS I

1200 SURVEY OF HEALTH SCIENCES An elective open to all students, designed to assist students in the exploration of professional requirements and responsibilities of various health careers. The interrelatedness of health careers is stressed. Fall and on demand.

3125 INDEPENDENT LIVING STRATEGIES FOR ACTIVITIES OF DAILY LIVING Required for occupational therapy majors. The course presents techniques and therapeutic procedures involved in daily living skills. Compensatory techniques, assistive devices, and adaptations to accommodate limitations in performance of self-care activities are emphasized. Prerequisite: Admission to the occupational therapy program. Spring.

3215 GROUP PROCESS AND COMMUNICATION SKILLS IN OCCUPATIONAL THERAPY Required for occupational therapy majors. The course uses group process theory and experiential learning to facilitate the development of communication and interpersonal skills used in occupational therapy practice. Prerequisite: Admission to the occupational therapy program. Fall.

3220 HUMAN DEVELOPMENT II Required for occupational therapy majors. This course is a continuation of Human Development I. Emphasis is on occupational therapy intervention for adolescence through late adulthood and the death and dying process. Prerequisite: Admission to the occupational therapy program. Spring.

3223 INTRODUCTION TO OCCUPATIONAL THERAPY Required for occupational therapy majors. This is a study of the definition, philosophy, history, scope of practice, and educational requirements of the profession. Discussed are the professional roles of the OTR and COTA, current health trends, professional organizations, standards of practice, code of ethics, and the certification and licensure processes. Prerequisite: Admission to the occupational therapy program. Summer.

3241 CLINICAL CONDITIONS II Required for occupational therapy majors. This course is a continuation of Clinical Conditions I. It presents the pathology, etiology, and management of selected clinical diagnoses and emphasizes the role of occupational therapy in the care of individuals with these illnesses. Prerequisite: Admission to the occupational therapy program. Spring.

3316 HUMAN DEVELOPMENT I Required for occupational therapy majors. The growth and development process from preterm through pre-adolescence. Adaptive skills of the developing individual—physical, cognitive, perceptual, motor, and emotional—are considered in relationship to the social and cultural environment. Prerequisite: Admission to the occupational therapy program. Fall.

3330 THERAPEUTIC ACTIVITIES IN OCCUPATIONAL THERAPY Required for occupational therapy majors. This is an introduction to purposeful activity and activity analysis in occupational therapy. Students study the use of crafts, computers, and other media in clinical practice. Prerequisite: Admission to the occupational therapy program. Summer.

4321 EVALUATION AND TREATMENT IN PHYSICAL DISABILITIES I Required for occupational therapy majors. This course introduces the scope of practice with adolescent through adult populations with physical disabilities. Emphasizes rehabilitative and bio-

on 27 semester hours of general education course work followed by

Fall Semester

PTHY 2275, 2295, 2350, 2210, 2215, 2225, and 2240

Spring Semester

PTHY 2280, 2330, 2340, 2205, 2230, AND 2325

Summer

PTHY 2610

Students must maintain a GPA of 2.0 each semester to remain in the curriculum. Full-time clinical education (summer courses) requires internships in assigned facilities. Students may be required to spend five weeks at a clinical site outside of Arkansas.

Required Course Work for the AAS Degree

General education requirements are listed elsewhere in this bulletin. Contact the department for an information packet listing the specific department requirements.

Graduation

Students who satisfactorily complete the technical curriculum will graduate in August. Graduates are eligible to write the licensure examination required in Arkansas and other states.

**BACHELOR OF SCIENCE IN HEALTH SCIENCE,
PHYSICAL THERAPY EMPHASIS**

General Education Requirements 47 hours

Must include MATH 1390 and PSYC 1300. (If courses are selected properly for General Education requirements, the Health Science Core is reduced by 11 hours.)

Health Science Core 15 hours

- Biological Sciences (BIOL 1440) 4 hours
- Chemistry (CHEM 1450 or 1402) 4 hours
- Physics (PHYS 1410) 4 hours
- Statistics 3 hours

Degree Emphasis Requirements 36–37 hours

(number of hours depends on biology elective selected)

- BIOL 2406 Structure & Function of the Human Body I
- BIOL 2407 Structure & Function of the Human Body II
- BIOL 2420 Histology Health Science
- BIOL 3370 Introduction to Neuroscience

Biology elective; choose one of the following:

- BIOL 2411 Microbiology, *or*
- BIOL 4311 Pathophysiology, *or*
- BIOL 4351 Pharmacology

Choose one of the following
(students must finish with the second discipline of chemistry I):

- CHEM 1451 College Chemistry II, *or*
- CHEM 2450 Physiological Chemistry II
- PHYS 1420 College Physics 2
- PSYC elective

Choose one of the following:

- CSCI 1300 Introduction to Computers, *or*
- INFO 1343 Information Processing and Analysis
- H ED 3123 Medical Terminology
- WRTG 3310 Technical Writing

Related Requirements 21 hours

- ACCT 4325 Legal Environment of Health Care Administration
- H ED 3320 Epidemiology Research
- H ED 4302 Health Education in the Worksite
- H ED 4343 Health Strategies for Multicultural Populations
- MKTG 4360 Health Care Marketing
- MKTG 4361 Marketing Planning for Health Care Organizations

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H ED 3320	Epidemiological Research
H ED 4312	Drug Education
MKTG 3350	Principles of Marketing
MGMT 3334	Production Management

Students who are interested in applying to the UCA professional Doctor of Physical Therapy (DPT) program are encouraged to pursue this degree emphasis, which is specially designed to assist students completing prerequisite coursework to obtain a baccalaureate degree in order to meet application requirements for the professional DPT program.

Advisor: Ms. Krupicki, 450-5541

PURPOSES

The Department of Health Sciences, in cooperation with Baptist Medical Center and St. Vincent Infirmary Medical Center in Little Rock offers a Bachelor of Science with a major in radiography. In order to receive credit toward a degree from the university, the student must apply and be admitted to UCA prior to enrolling in the professional curriculum in radiography. In all cases, students will be required to complete a minimum of 30 hours at the University of Central Arkansas.

The clinical curriculum is 24 months in duration, and the application deadline for the clinical phase is March 1. Admission to this curriculum is on a competitive basis. Prior to applying to the professional curriculum, students must provide evidence that they have or will have completed at least 60 hours, including all prerequisite courses, and have a completed authorization form signed by the UCA radiography advisor.

The professional curriculum is accredited by the Joint Review Committee on Educational Programs in Radiologic Technology of the American Medical Association. Graduates of the professional curriculum are eligible for examination by the American Registry of Radiologic Technologists.

REQUIREMENTS

The following are required for completion of this program:

1. The general education component.
2. Other required courses: CSCI 1300, PSYC 1300, PSYC 3360 OR 4320, BIOL 1400, 2405, PHYS 1405, MATH 1390.
3. Elective (approved by advisor: 3 hours).
4. Clinical program at affiliated hospital (72 hours).

COURSES IN RADIOGRAPHY (RADG)

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 COMPUTER LITERACY Fundamental principles of computer terminology. Computer concepts and history, and computer applications in radiology. Hands-on experience with a microcomputer, using software pertinent to the field of radiology and computer-assisted instruction.

4161 SENIOR SEMINAR Review sessions in those courses deemed critical for the registry examination. Simulated registry examinations to aid in preparation and familiarization with conditions under which the registry is given.

4162 RADIOGRAPHIC PATHOLOGY Concepts of disease. Trauma/physical injury, the systemic classifications of disease, and repair and replacement of tissue.

4163 EVALUATION OF RADIOGRAPHS V Continuation of RADG 3150.

4164 INTRODUCTION TO QUALITY ASSURANCE Evaluation of radiographic systems to assure consistency in the production of quality images. Regulations governing quality assurance and the techniques, equipment, and procedures for attaining it.

4760 CLINICAL EDUCATION VI Continuation of RADG 3851.

Chair and Associate Professor: Dr. Moss-Logan, 450-3176

Professor: Dr. McNiece

Associate Professors: Dr. Logan, Mr. Thurman

Assistant Professor: Dr. Lance

Instructors: Ms. Fusilier, Ms. Haub, Ms. Moore, Ms. McDaniel, Ms. S. Ross, Mr. B. Ross

DESCRIPTION

Definition. Speech-language pathology is the health-care profession involved in preventing, evaluating, and treating speech, language, and swallowing disorders in individuals of all ages. Speech-language pathologists hold either a master's or doctoral degree and have earned the Certificate of Clinical Competence (CCC) from the American Speech-Language-Hearing Association (ASHA), the national professional, scientific, and accrediting organization. Speech-language pathologists work in a wide variety of settings such as public and private schools, hospitals, clinics, health departments, rehabilitation centers, and private practice.

Purposes. The undergraduate program in speech-language pathology provides the academic background necessary for professional education in speech-language pathology or audiology at the graduate level. The masters degree is the entry level for those who plan to pursue careers as speech-language pathologists in schools, hospitals, community centers, university clinics, and other professional settings. The undergraduate program provides basic content courses relating to the processes of speech, language, and hearing, with introductory courses in the disorders of human communication.

Clinical Practicum. The department maintains an on-campus Speech-Language-Hearing Center where student clinicians under the supervision of faculty who are licensed in speech-language pathology or audiology complete clinical observation and provide evaluation and clinical service for infants, toddlers, children, youth, and adults with communication problems.

SPTH 2300, 2322, 3300, 3301, 3306, 3310, 3311, 3320, 3321, 3325, 3326, 4110, 4111, 4115, 4116, 4220, 4320.

Related Area **6 hours**

PSYC 2370, 3 hours in statistics (PSYC, SOC, or MATH).

MASTER'S DEGREE

See *Graduate Bulletin*.

COURSES IN SPEECH-LANGUAGE PATHOLOGY (SPTH)

2300 INTRODUCTION TO CLINICAL SPEECH Required prior to formal program admission. Introductory study of communication, its disorders, and the professions of speech-language pathology and audiology. Overview of normal development as well as various communication disorders occurring with speech and language. Lecture, discussion, observation of clinical activities. Open to all students. Fall, spring, summer.

2303 BASIC SIGN LANGUAGE Elective. Introductory study of the various sign language methods. Lecture, discussion, and laboratory practice using sign language. Open to all students. Fall, spring, summer.

2322 APPLIED PHONETICS Required prior to formal program admission. Introductory study of the principles of phonetic science with practical application. Lecture and laboratory practice in phonetic transcription. Open to all students. Fall, spring, summer.

3300 PHONOLOGICAL ACQUISITION Required. A study of the development of the phonological system from birth through early elementary school years. Interactions of the sound system with other linguistic, motor, and cognitive behaviors will be identified. Lecture. Prerequisites: program admission, SPTH 2300 and 2322. Fall.

3301 ARTICULATION DISORDERS Required. A study of etiology, evaluation, and therapy for children and adults having articulation/phonological defects. Lecture and discussion. Prerequisites: program admission, SPTH 3300. Fall.

3306 ANATOMICAL AND PHYSIOLOGICAL BASES OF COMMUNICATION Required. A study of anatomy, physiology, and related pathophysiology of the vocal mechanism and other body structures involved in motor and sensory aspects of speech production. Lecture and discussion. Prerequisite: program admission. Fall.

3310 FUNDAMENTALS OF AUDIOLOGY Required. Introductory study of the auditory process and its role in communication. Special consideration is given to anatomy and physiology of the ear, etiology and management of auditory disorders, physics of sound, and measurement of hearing loss. Lecture, discussion, and laboratory practice in the audiological suite. Prerequisite: program admission. Fall.

3311 FUNDAMENTALS OF SPEECH AND HEARING SCIENCE Required. A study of basic sound, 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. Spring.

3320 LANGUAGE PATHOLOGIES 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.

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

3325 FUNDAMENTALS OF CLINICAL MANAGEMENT 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.

3326 DIAGNOSIS OF COMMUNICATION DISORDERS 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. Spring.

4110 CLINIC SEMINAR I Required. 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. Fall.

4111 CLINIC SEMINAR II Required. 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, SPTH 4110, SPTH 4115. Spring.

4115 CLINICAL PRACTICUM I Required. Direct observation of speech and language therapy, experience in writing goals, and practice collecting data from therapy sessions. Clinic. Prerequisite: Program admission. Fall.

4116 CLINICAL PRACTICUM II Required. Supervised clinical experience in the treatment of individuals with speech or language delays. Clinic. Prerequisites: Program admission, SPTH 4110, SPTH 4115. Spring.

4220 DIAGNOSIS AND PLANNING Required. A study of writing and interpreting a variety of reports used in the field of speech-language pathology. Planning goals for therapy from these reports will also be emphasized. Lecture, discussion, and laboratory practice. Prerequisites: Program admission, SPTH 3326. Spring.

4303 INTERMEDIATE SIGN LANGUAGE Elective. An intermediate study of various sign language methods with emphasis on increasing expressive and receptive sign language skills. Lecture, discussion, and laboratory practice using sign language. Prerequisite: SPTH 2303 and consent of instructor. Fall, spring, summer.

4304 PUBLIC SCHOOL SPEECH THERAPY Elective. Intended for students interested in public school applications. This course assumes a knowledge of the fundamental tools of speech-language pathology and uses techniques of community research to explore the public education team. Lecture and discussion. Prerequisite: Program admission. Spring.

4310 ASSISTIVE TECHNOLOGY Elective. A study of assistive technology in the domains of vision, hearing, cognition, mobility, communication, and environmental controls. Collaboratively taught by occupational therapy, physical therapy, speech-language pathology, and discussion, including laboratory practice.

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Dean and Professor: Dr. Maurice A. Lee, 450-3167

Associate Dean and Associate Professor: Dr. Joe G. Delap, 450-3167

MISSION

Pre-Professional Studies

Pre-Law

Master of Arts

English

Major in English 36 hours

Thirty-six hours of English of which at least 21 must be upper-division.

WRTG 1320, 3301; ENGL 2310, 2311, 2312, 2313, 3312; a genre course, a period course, a figure course; two upper-division English electives (6 hours). (ENGL 4361 is required for teacher licensure.)

Minor in English 27 hours

Twenty-seven hours of English of which at least 12 must be in upper division courses.

WRTG 1320, 3301; ENGL 2310, 2311, 2312, 2313, 3312; two upper-division English electives (6 hours). (ENGL 4361 is required for teacher licensure.)

Bachelor of Science in Education

Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of English (450-5101), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

MASTER'S DEGREE

See *Graduate Bulletin*.

COURSES IN ENGLISH (ENGL)

such as Bradstreet, Taylor, Mather, Edwards, Franklin, Wheatley, Brockden Brown, Irving, and Cooper. The course identifies the major strains of English puritanism, European gothic writing, political pamphleteering, Native American storytelling, colonial and pre-colonial writing that form American literature to 1830. The European, provincial, feminine, and political visions that constitute various national voices are analyzed for ideology and content. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4313 AMERICAN ROMANTICISM AND REALISM For English majors and minors to satisfy upper-division period requirements. Major works in American Romanticism and Realism, 1830–1900, generally focusing on writing by Hawthorne, Thoreau, Poe, Howells, Crane, James, Twain, and Wharton. The course examines the philosophical and social issues that generated American Romanticism and the scientific, objectivist naturalism that caused the Realist reaction. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4320 THE ROMANTIC PERIOD For English majors and minors to satisfy upper-division period requirements. English Romanticism from its eighteenth-century precursors through major Romantic writers of prose and poetry generally focusing on Blake, Wordsworth, Scott, Coleridge, Lamb, Byron, Shelley, Keats, Landor, and Hazlitt. The course examines the assumptions, ideology, and temperament of Romanticism as idea and poetic form. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4321 THE VICTORIAN PERIOD For English majors and minors to satisfy upper-division period requirements. Poetry and prose of major English writers of the latter part of the nineteenth century, generally focusing on Browning, Tennyson, Ruskin, Carlyle, Arnold, Meredith, Swinburne, and Pater. The course examines Victorian conceptions of social progress, industrialization, gender roles, and relationships. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4330 SHAKESPEARE I For English majors and minors to satisfy upper-division figure and genre requirements. Can be taken in series with Shakespeare II. Historical, linguistic, and critical study of representative comedies, tragedies, and history plays. The course examines a wide variety of approaches to Shakespeare's texts including performative analysis, historical interpretations, psychological and cultural readings of the plays. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4331 SHAKESPEARE II For English majors and minor to satisfy figure and genre requirements. Can be taken in series with Shakespeare I (see 4330 Shakespeare I). Lecture, discussion, research paper, and/or formal writing assignments. On Demand.

4340 CHAUCER For English majors and minors to satisfy upper-division figure requirement. Chaucer's major works, the *Parliament of Fowls* and *The Canterbury Tales*, viewed against the background of medieval life and thought. Course examines Chaucer's writings from perspectives of Chaucer's depiction of women, Chaucer's sources, and Chaucer as Christian moralist, as allegorist, as fable writer, as

humorist. Lecture, discussion, research paper, and/or formal writing assignment. On demand.

4341 MILTON For English majors and minors to satisfy figure requirements. Milton's major poems and selected prose including *Paradise Lost* and *Comus*, *Samson Agonistes*, and *Areopagitica* viewed against the background of seventeenth-century life and thought. Close attention to Milton's life, political and pamphlet writing, learning, and sources, set against changing religious and social forces in seventeenth-century England. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4342 THE SEVENTEENTH CENTURY For English majors and minors to satisfy period and genre requirements. Non-dramatic writings from 1603 to 1660, exclusive of Milton, generally focusing on the Metaphysical Poets (Herbert, Crashaw, Vaughan, Marvell) as well as Lovelace, Waller, and Traherne. The course examines the conceits, formal intricacies, sources, and influences in these seventeenth-century figures. Lecture, discussion, research paper, and/or formal written assignments. On demand.

4343 TUDOR-STUART DRAMA (EXCLUDING SHAKESPEARE) For English majors and minors to satisfy either period or genre requirement. Using representative plays (by Ford, Webster, Kidd, and Marlowe), an examination of the dramatic literature of the late sixteenth and early seventeenth centuries (excluding Shakespeare). The course focuses on the language, social and psychological vision, and portrait of family and civic life in the plays. Lecture, discussion, research paper, and/or formal written assignments. On demand.

4344 ENGLISH DRAMA 1660 TO PRESENT For English majors and minors to satisfy genre requirement. English drama from the reopening of the theaters in 1660 to the present. The course generally will focus on one or more of the following: Etherege, Wycherley, Congreve, Dryden, Goldsmith, Sheridan, Wilde, Shaw, Pinter. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4352 AMERICAN MODER, and/oourc-7 1 English drama

4358 METHODS OF TEACHING ENGLISH May not be taken as part of the major or minor. Required of all BSE students in English. A study of methods used in the teaching of English. Evaluated teaching presentations before other training teachers. First in a series of five required concluding education courses. Lecture, discussion. Fall, spring.

4361 LITERATURE FOR ADOLESCENTS For English majors and minors to satisfy upper-division elective requirement, and required for teacher certification. Choosing and analyzing literature that is appropriate psychologically, intellectually, motivationally, for teaching in secondary schools. Lecture, discussion, evaluated teaching presentations before peers. Fall, spring.

4372 EIGHTEENTH-CENTURY ENGLISH NOVEL For English majors and minors to satisfy period or genre requirement. Generally focusing on works by Smollet, Sterne, Fielding, Defoe. Lecture, discussion, research paper, and/or formal written assignments. On demand.

4373 NINETEENTH-CENTURY ENGLISH NOVEL For English majors and minors to satisfy period or genre requirements. English novels of the nineteenth century generally focusing on works by Austen, Dickens, Trollope, Thackeray, Eliot, Hardy. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

Chair and Associate Professor: Dr. Bailey, 450-5645
Associate Professors: Dr. Brodman, Dr. Delap, Dr. Langston, Dr. Pouwels, Dr. Zambrano
Assistant Professor: Dr. Parrack
Lecturers: Ms. Carlin, Ms. Friedman
Laboratory Instructor: Ms. Wilkes

PURPOSES

- To develop proficient students with a functional control of the four fundamental language skills: speaking, listening, reading, and writing.
- To increase students' awareness, understanding, and respect for the many cultural differences they will encounter in the world.
- To enable students to function effectively in a changing global community.
- To stress the relevance of the study of foreign language, culture, and literature to career preparation.
- To develop a lasting appreciation for foreign literatures and cultures.

PROGRAM

Major programs are offered in French and Spanish, and minor programs are offered in French, German, and Spanish. The curriculum permits maximum authentic practice of everyday language and cultural situations as well as in-depth study of general and specific topics in culture and literature. Students are highly encouraged to study abroad as they complete their language program.

4374 TWENTIETH-CENTURY ENGLISH NOVEL For English majors and minors to satisfy period or genre requirements. English novels of the twentieth century generally focusing on works by Conrad, Joyce, Woolf, Forster, Lawrence, Ford, Fowles. Lecture, discussion, research paper, and/or formal writing assignments. On demand.

4375 TWENTIETH-CENTURY ENGLISH POETRY For English majors and minors to satisfy period or genre requirements. English poetry of the twentieth century generally focusing on works by Hardy, Yeats, Eliot, Graves, Auden, Heaney. Lecture, discussion, research paper, and/or formal written assignments. On demand.

4380 AFRICAN AND AFRICAN-AMERICAN LITERATURE For English majors and minors to satisfy upper-division elective requirements. A survey of African and African-American literature from the eighteenth century to the present generally focusing on slave narratives, middle passage and captivity narratives in the eighteenth and nineteenth centuries to the works of Larson, Petry, Hurston, Bambara, Reed, Baraka, John A. Williams, and August Wilson in this century. Lecture, discussion, research papers, and/or formal writing assignments. On demand.

Foreign language majors are counseled to combine a second major or a minor in a related area of interest which will enhance their preparation for a professional career. Upon graduation, majors may qualify to teach on the secondary level, to attend graduate school, or to secure employment in any one of a variety of fields requiring proficiency in a foreign language.

ADVANCED PLACEMENT

The Foreign Languages department participates in the advanced placement program. Courses and the minimum requirements to be met in order to earn credit can be found elsewhere in the bulletin (see p. 10).

CREDIT BY EXAMINATION

Students who have studied a foreign language in which they are not native speakers and who 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 6 hours in a language or 12 hours within the department and is granted by fulfilling the following criteria:

1. Achievement of a satisfactory score on a proficiency examination administered by the Department of Foreign Languages.

BACHELOR OF ARTS: FOREIGN LANGUAGE REQUIREMENT

The Bachelor of Arts degree requires completion of three (3) semester hours of a foreign language at the 2000-level or above. 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.

HONORS STUDY IN FRENCH OR SPANISH

During the senior year, a student majoring in French or Spanish may be invited to become a candidate for departmental honors. Minimal requirements for graduation with honors are

1. Achievement of a 3.25 GPA overall and a 3.40 in the major.
2. Demonstration of advanced level proficiencies in all four skills (speaking, listening, reading, and writing) on a senior exit examination.

4325 SECOND LANGUAGE ACQUISITION A study of the most common theories and research on second language acquisition (SLA), similarities and differences of first and second language acquisition, and the relevance of SLA to classroom teaching of second languages. On demand.

4330 SECOND LANGUAGE ASSESSMENT A study of second language assessment techniques and procedures. Construction and critique of instruments for assessing proficiencies in listening, speaking, reading, and writing. May not be presented as part of the foreign language major or minor requirements. On demand.

COURSES IN FRENCH (FREN)

1111 BASIC FRENCH COMMUNICATION Oral practice in basic French communication for social and travel situations. Laboratory or classroom setting. Concurrent enrollment in 1310 or some previous language experience.

1211, 2212 COMMUNICATING IN FRENCH I AND II Oral practice of French in social, travel, and business situations. On demand.

1301 FRENCH FOR READING KNOWLEDGE Designed to enable students with no prior knowledge of French to acquire a basic reading competency. Includes an overview of the principles of French grammar and the study of texts related to students' fields of study. Of special interest to students preparing for graduate school. FREN 1301 does not count toward the BA requirement. Workshop format. On demand.

1310 ELEMENTARY FRENCH I Beginning study of French. Basic communication skills are emphasized. Discussion/lecture. Fall, spring.

1320 ELEMENTARY FRENCH II Continued study of the basic elements of French and practice in communication skills. Discussion/lecture. Prerequisite: FREN 1310 or consent of chair. Fall, spring.

2310 FRENCH CONVERSATION AND COMPOSITION I Review and broadening of basic skills in realistic contexts. Study of cultural and literary texts. Discussion/lecture. Prerequisite: FREN 1320 or consent of chair. Fall, spring.

2320 FRENCH CONVERSATION AND COMPOSITION II Further review with special emphasis on reading and writing. Discussion/lecture. Prerequisite: FREN 2310 or 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.

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/*ex-plication 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.

3320 FRENCH LITERATURE I Survey of French literature before 1800. Discussion/lecture. Prerequisite: FREN 3300 or consent of chair. On demand.

3321 FRENCH LITERATURE II Survey of French literature since 1800. Discussion/lecture. Prerequisite: FREN 3300 or consent of chair. On demand.

4310 HONORS THESIS Tutorial taken in the senior year by a student who is invited to enter the honors program in French. A reading list will provide the foundation for a thesis to be written by the honors candidate. To qualify for honors, the student must earn a grade of A or B on the thesis. Prerequisite: Departmental invitation.

1310 ELEMENTARY GERMAN I Beginning study of German. Basic comprehension and communication skills are emphasized. Discussion/lecture. Fall, spring.

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

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 or consent of chair. On demand.

2320 GERMAN CONVERSATION AND COMPOSITION II Continued practice in comprehension and communication skills with additional emphasis on active use of reading and writing skills. Discussion/lecture. Prerequisite: GERM 2310 or consent of chair. On demand.

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.

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 major or 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 CIVILIZATION Survey of historical, literary, and artistic elements of German society with an analysis of modern German customs and social problems. Discussion/lecture. Prerequisite: GERM 2310 or consent of chair. On demand.

3320 INTRODUCTION TO GERMAN LITERATURE Prerequisite: GERM 2310 or consent of chair. Discussion/lecture. On demand.

4350 GERMAN GRAMMAR AND PHONETICS In-depth examination of the elements of German grammar along with a study of the phonetic principles of the language. Discussion/lecture. Prerequisite: GERM 2320 or consent of chair. On demand.

4395 ADVANCED GERMAN LITERATURE Theme course. Special studies in various genres, literary movements, or authors. May be repeated for credit under different topics. Discussion/lecture. Prerequisite: Two 3000-level courses or consent of chair. On demand.

4100, 4200, 4300 INDEPENDENT STUDY IN GERMAN Prerequisite: Consent of chair and instructor. On demand.

COURSES IN JAPANESE (JAPN)

1310 ELEMENTARY JAPANESE I Beginning study of Japanese. Basic skills are emphasized. Discussion/lecture. Fall.

1320 ELEMENTARY JAPANESE II Continuation of the study of grammar and communication skills. Discussion/lecture. Prerequisite: JAPN 1310 or consent of chair. Spring.

2310 JAPANESE CONVERSATION AND COMPOSITION I Continuation of structure and skills development. Discussion/lecture. Prerequisite: JAPN 1320 or consent of chair. On demand.

COURSES IN LATIN (LAT)

1310 ELEMENTARY LATIN I Beginning study of Latin. Grammar and reading skills are emphasized. Discussion/lecture. On demand.

1320 ELEMENTARY LATIN II Continuation of the study of grammar and development of reading and translation skills. Discussion/lecture. Prerequisite: LAT 1310 or consent of chair. On demand.

2310 INTERMEDIATE LATIN I Continued development of reading and translation skills. Selected readings from Latin authors. Discussion/lecture. Prerequisite: LAT 1320 or consent of chair. On demand.

COURSES IN RUSSIAN (RUSS)

1310 ELEMENTARY RUSSIAN I Beginning study of Russian. Basic skills are emphasized. Discussion/lecture. On demand.

1320 ELEMENTARY RUSSIAN II Continuation of study of grammar and communication skills. Discussion/lecture. Prerequisite: RUSS 1310 or consent of chair. On demand.

2310 RUSSIAN CONVERSATION AND COMPOSITION I Continuation of elementary skills with emphasis on communication. Discussion/lecture. Prerequisite: RUSS 1320 or consent of chair. On demand.

COURSES IN SPANISH (SPAN)

Chair (Geography, Political Science, and Sociology)

and Professor: Dr. Hy, 450-3164

Associate Professors: Dr. Butt, Dr. Green, Dr. Jameson, Dr. Reynolds

Assistant Professors: Dr. Allender, Dr. Andronikov

Instructor: Mr. R. Cossman

PURPOSES

Programs of study in geography, located in the Department of Geography, Political Science, and Sociology, are designed to meet the following needs:

- Acquaint students with the contribution of geography to the understanding of the world through the study of its varied physical and human environments and the spatial relationships that exist between them.
- Give students a fundamental background in human-natural environment relationships in preparation for geography-related positions in environmental planning, natural resources management, urban and regional planning and development, water resources, cartography, education, and geographic information systems.
- Prepare students for advanced work in geography at the graduate level.

THE HONORS PROGRAM IN GEOGRAPHY

During the junior year, a student who has demonstrated superior interest and ability may be nominated to participate in the honors program. Students who complete this program and graduate with honors are in a strong position to compete for awards and grants at leading universities.

BACCALAUREATE DEGREES

Bachelor of Arts

The degree of Bachelor of Arts, with a major in geography, requires successful completion of 124 hours, including (1) the general education component; (2) degree requirements; (3) the geography courses listed below; and (4) a minor as worked out with the student's advisor.

Major in Geography 36 hours

GEOG 1315, 1320, 2345, 2361, 2362, 3375, 3320, 4391, plus 12 hours of geography courses, at least 9 of which must be upper-division.

Minor in Geography 24 hours

GEOG 1315, 1320, 2345, 2361, 2362, plus 9 hours of geography courses, at least 6 of which must be upper-division.

Bachelor of Science

The degree of Bachelor of Science, with a major in geography, requires successful completion of 124 hours, including (1) the general education component; (2) degree requirements; (3) the geography courses listed below; and (4) a minor as worked out with the student's advisor. A geography major may not minor in geographic information science.

Major in Geography 36 hours

GEOG 1315, 1320, 2345, 2361, 2362, 3375, 3320, 4391, plus 12 hours of geography courses, at least 9 of which must be upper-division.

Minor in Geography 24 hours

GEOG 1315, 1320, 2345, 2361, 2362, plus 9 hours of geography courses, at least 6 of which must be upper-division.

Minor in Geographic Information Science 21 hours

A technology-oriented minor designed to strengthen one's use of the tools of geography. Geography core includes GEOG 1315, 1320, 2320, 2345, 3306, 3375 and 4330. Students must also successfully complete 3 hours of statistics. Geographic information science minors may not be geography majors.

COURSES IN GEOGRAPHY (GEOG)

1305 PRINCIPLES OF GEOGRAPHY Part of the general education program as a behavioral and social sciences elective. This course uses a lecture and discussion format to provide an introduction to the basic conceptual and methodological principles of geography as

2302 CONSERVATION AND LAND USE Required for environmental science majors, an elective for others. 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 United States. The historical development and contemporary application of the conservation philosophy of resource use are discussed. Prerequisite: None. Fall.



2320 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS An elective and a requirement for minors in geographic information science. The course introduces the student to the realm, principles, and capabilities of an innovative technology, geographic information systems (GIS). A lecture and discussion format is used, and lab exercises are also employed to understand, analyze, and practically apply the fundamental concepts of GIS. Emphasis is placed on a life-based application of GIS technology in the form of a term group research project. Prerequisite: GEOG 2345 or consent of instructor. Fall, spring.

2330 QUANTITATIVE METHODS IN GEOGRAPHY An elective for geography majors and minors. This course uses a lecture and discussion format to provide information about descriptive, inferential, and relational statistics as these techniques are employed in spatial analysis; also included is that set of quantitative methods used in conjunction with map analysis termed spatial statistics. On demand.

2345 GEOGRAPHIC INFORMATION TECHNIQUES Required of geography majors and those minoring in geography or geographic information science. The course, via lectures, class discussions, and laboratory exercises, enhances student's knowledge and understanding of geography, geographic information, and the various techniques geographers employ as they collect, store, manage, analyze, and display geographic data or information. Prerequisite: None. Fall, spring, and summer on demand.

2361 WORLD REGIONAL GEOGRAPHY I Required of geography majors and minors and an elective for others. Employing a lecture/discussion/visual presentations format, this course offers a survey of the major cultural regions of the contemporary "developed" world. Prerequisite: None. Fall.

2362 WORLD REGIONAL GEOGRAPHY II Required of geography majors and minors and an elective for others. Using a lecture/discussion/visual presentations format, this course presents an overview of the major cultural regions of the contemporary "developing" (or "lesser developed") world. Prerequisite: None. Spring.

3302 ARID LANDS GEOGRAPHY An upper-division elective. This course employs a lecture and discussion format, supplemented by outside readings and research, to explore physical and cultural environments in arid and semi-arid lands and to develop strategies pertinent to planning for the future. Prerequisite: GEOG 1315 or consent of instructor. Spring, odd years.

3305 ECONOMIC GEOGRAPHY An upper-division elective. The course uses lectures and class discussions to provide a description and explanation of economic activities from a spatial perspective. Classical location theories of Von Thunen, Weber, and Christaller are emphasized. Prerequisite: None. Spring, even years.

3306 REMOTE SENSING AND IMAGE INTERPRETATION An upper-division elective and a requirement for geographic information science minors. The course introduces the student to the principles of remote sensing, including the study of photographic and non-photographic techniques, the principles of acquiring and interpreting airphoto and satellite imagery, digital image processing, and the relationship between remote sensing and geographic information systems. Emphasis is placed on new achievements in space technology and on practical application of innovative remote sensing-based methods through lab exercises and student term projects. Prerequisite: None. Spring.

3315 GEOGRAPHY OF LATIN AMERICA An upper-division elective and required for Latin American studies minors. Using a lecture and discussion format, an examination and comparison of the various nations that comprise Latin America is achieved. Emphasis is on the physical environment, social and economic development, and historical trends that affect the region's evolution. Prerequisite: GEOG 2362 or consent of instructor. Every third semester.

3320 FIELD STUDIES Required of geography majors. Employing a group field work approach, this course is a systematic examination of the physical and cultural geography of a selected area of the United States under the guidance of an instructor. Participation in university-sponsored group field studies (including those international in scope) outside the program curriculum can be substituted, with prior permission obtained from the instructor. Prerequisites: GEOG 1315 and 1320 and consent of instructor. Spring, May intersession.

3325 URBAN AND REGIONAL PLANNING An upper-division elective. Using a lecture and discussion format, a macrospatial analysis of planning techniques and case studies as evolving in the US is emphasized. Rapidly changing trends, philosophies, and techniques in the planning field are combined to better understand the locational decisions impacting transportation and urban growth. Prerequisite: None. Every third semester.

3333 GEOGRAPHY OF NATURAL HAZARDS An upper-division elective. This course uses a lecture and discussion format in identifying geomorphic and atmospheric phenomena (e.g., floods, tornadoes, hurricanes, earthquakes) that represent real hazards to the population. Human responses to the various natural hazards are assessed and common adjustments identified. Prerequisite: GEOG 1315 or consent of instructor. Spring, even years.

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 inves-

breaking waves. Prerequisite: GEOG 1315 or consent of instructor. Spring, even years.

3371 URBAN GEOGRAPHY An upper-division elective. Using a lecture and discussion format, this course analyzes the various aspects of the distribution of urban settlements, the internal structure of urban areas, and an analysis of the growth, development, and problems of the American city. Prerequisite: None. Every third semester.



3375 CARTOGRAPHY Required of geography majors and those students minoring in geographic information science. This lab-oriented, exercise-based course teaches students the theory of map design and how to construct general purpose, special purpose, and thematic maps. Prerequisites: GEOG 1315 or 1320 and GEOG 2345. Fall, spring, summer on demand.

3380 GEOGRAPHY OF ARKANSAS An upper-division elective. The course, through lectures and class discussions, examines the physical and human geography of the state of Arkansas. Topics include landforms, weather, climate, settlement, poverty, politics, agriculture, and lumbering, among others. Prerequisite: None. Fall, odd years, summer.

3381 POLITICAL GEOGRAPHY An upper-division elective. Using a lecture and discussion format, the spatial perspective of political phenomena is analyzed. Traditional topics include the coincidence of state and nation, boundaries, claims to territory, and state location, shape, and size. Contemporary topics include political processes and territory, integration, location, residential quality, economic factors, and local policy in metropolitan areas. Prerequisite: GEOG 1320 or consent of instructor. Every third semester.

3385 GLOBAL FOOD RESOURCES An upper-division elective. A worldwide study of past and present patterns of food production, consumption, and problems, using a lecture, discussion, and visual presentations format. Specific environmental conditions and cultural complexes which significantly influence food production and diet are examined. Prerequisite: None. Fall, odd years.

3399, 3699 INTERNSHIP IN GEOGRAPHY An elective for geography majors and minors. A structured, supervised, work experience in an academic format. The student is assigned to a specific agency and completes a minimum of 150 hours during the semester enrolled. This course is normally taken for 3 credit hours but can be taken for 6 credit hours if the job assignment requires additional time. Agency assignment and credit hours will be determined through student consultation with the geography program internship director. Prerequisite: 15 semester hours in geography and permission of program internship director. Fall, spring, summer.

4304 WATER RESOURCES An upper-division elective. This course uses a lecture and discussion format to provide detail on the occurrence, distribution, and movement of water on and beneath the earth's surface and the integration of water into human activities, e.g., flooding, drainage, irrigation, power, navigation, water supplies, and water pollution. Prerequisite: GEOG 1315 or consent of instructor. Spring, odd years.

4305 SOILS An upper-division elective, this course introduces soil environment, including soil-forming processes, soil classification and genesis, conservation and management, and use of the soil survey. This course uses a lecture format combined with field study to acquaint students with the nature and properties of soils. Specific emphasis is on topics of soil geography and world classifications, soil sustainability, soil ecological mapping and modeling, soil pollution, and precision agriculture. Prerequisite: GEOG 1315 or consent of instructor. Fall, even years.

4308 OCEANOGRAPHY An upper-division elective. Employing a lecture/discussion/visual presentations format, this course is an introduction to oceanic environments, distribution, ocean basin topography, physical and biological characteristics, marine climate, currents, ecology, and politics. Emphasis is on the oceanic physical environment and natural resources. Prerequisite: GEOG 1315 or consent of instructor. Fall, even years.

4313 RECREATION AND TOURISM An upper-division elective. This course uses a lecture and discussion format in the analysis of the physical, economic, and social aspects of outdoor recreation and tourism. Emphasis is on outdoor recreation activity and tourism in the United States and Arkansas. Prerequisite: None. Spring, odd years.

4325 PERSPECTIVES ON HUMAN GEOGRAPHY An upper-division elective. A seminar-oriented, discussion-based course, which analyzes significant trends of thought that have emerged in human geography since 1945. Prerequisite: GEOG 1320. Spring, odd years.

4330 GEOGRAPHIC INFORMATION ANALYSIS An upper-division elective and a requirement for geographic information science minors. This is an advanced-level course in GIS. It provides an understanding of analysis in GIS environment, knowledge of GIS design and implementation, an insight into spatial variability and geostatistics, and an experience in error propagation analysis within GIS. Emphasis of lectures and practical lab exercises is placed on problem-solving GIS techniques such as layering, networking, buffering, and querying. Environmental modeling and decision support system creation in real-life research projects executed by students is also an objective of this course. Prerequisites: GEOG 2320 and 3375 or consent of instructor. Fall, spring.

4390 HISTORICAL GEOGRAPHY OF THE UNITED STATES An upper-division elective. The course uses a lecture and discussion format to gain a comprehensive understanding of the evolving human geography of the United States during the past four centuries. Prerequisite: None. Fall, even years.

4391 RESEARCH SEMINAR Required for geography majors. This course uses a seminar format to introduce the student to scientific research methods and quantitative techniques with emphasis on geographic research. These methods and techniques are used to initiate investigation into a contemporary student-identified geographic problem and to develop a formal research proposal. Prerequisite: Junior status, 15 semester hours of geography, and a course in quantitative methods with a passing grade. Fall.

Interim Chair and Associate Professor: Dr. Jones, 450-3158
Professors: Dr. Barnes, Dr. Brodman, Dr. Corcoran, Dr. Pouwels, Dr.

MASTER'S DEGREE

See *Graduate Bulletin*.

COURSES IN HISTORY (HIST)

United States History

2301 AMERICAN NATION I Required for the BA/BS major, history minor, and BSE-Social Studies (history emphasis) major. Satisfies general education American history and government requirement.

4320 EUROPEAN SOCIAL AND INTELLECTUAL HISTORY, 1500 TO 1830 Upper-division elective. Students examine the cultural progress of the Scientific Revolution and the Enlightenment. Lectures, discussion, analysis of documents, writing. On demand.

4321 EUROPEAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1830 Upper-division elective. Students explore cultural progress in the sciences and humanities, with examination of the political and economic “isms” as well as literary and philosophical trends. Lectures, discussion, analysis of documents, writing. On demand.

4328 MODERN LATIN AMERICA Upper-division elective. Latin American studies minor. Students examine critical issues that challenge the countries of contemporary Latin America, from race and the environment to debt, development, and democracy. Lectures, discussion, analysis of documents, participatory classroom activities, Latin American fiction, writing. On demand.

4332 HISTORY OF THE CRUSADES Upper-division elective. Students examine the history of European interactions with Asia, northern Africa, and eastern Europe, 1000–1300, centering around the phenomenon of crusading. Lectures, discussion, analysis of documents, writing. On demand.

4353 INTER-AMERICAN RELATIONS Upper-division elective. Students review political, economic and cultural relationships between the United States and Latin America, with special attention to the period from 1898 to the present. Lecture, discussion, analysis of documents, participatory classroom activities, writing. Counts as United States or World History. On demand.

4360 BIRTH OF EUROPE, 300–1000 Upper-division elective. Students examine European political, social, economic, religious, and intellectual development from the establishment of Christianity as an officially sanctioned religion to the dawn of the feudal age. Lectures, discussion, analysis of documents, writing. On demand.

4361 MEDIEVAL CIVILIZATION, 1000–1400 Upper-division elective. Students examine European political, social, economic, religious,

3. Original or certified copies of all secondary, college, and university 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.
4. TOEFL score, if available, although it is not required for admission to the IEP.

Upon acceptance, students will receive a letter of admission to the Intensive English Program and, if applicable, a Form I-20 and a letter of conditional admission to the university.

GENERAL INFORMATION

Placement

IEP students are tested and interviewed upon their arrival at UCA. These results determine proficiency-level placement.

Eligibility for Concurrent University Courses

Although a TOEFL score is not required for admission to the IEP, students who have earned a TOEFL score of 450–473 on the paper-based test or 133–150 on the computer-based test and are conditionally admitted to UCA are normally eligible to take one regular concurrent university course while taking IEP classes; students who have earned a TOEFL score of 477–497 on the paper-based test or 153–170 on the computer-based test and are conditionally admitted to UCA are normally eligible to take two additional regular concurrent university courses. IEP students must have an official TOEFL score on file, along with their other admission documents, before they will be considered eligible to take concurrent courses. Scores must be received directly from Educational Testing Service (ETS). UCA's school code is 6012.

IEP Completion and Admission to an Undergraduate Degree Program

IEP students who have met all class requirements receive a certificate of attendance at the end of each semester or summer session. Students who have earned a GPA of 3.5 or above receive a certificate of merit.

Undergraduate students who successfully complete the advanced level of the IEP with no individual course grade below a B are eligible to enroll directly in a UCA degree program the following term without submitting a TOEFL score, provided they meet all other admission requirements. No TOEFL score is necessary for these students.

Undergraduate IEP students who earn a minimum TOEFL score of 500 on the paper-based test or 173 on the computer-based test are also eligible to enroll directly in a UCA degree program the following term, provided they meet all other admission requirements.

Chair and Professor: Dr. Jim Shelton, 450-3179

Professors: Dr. C. Harvey, Dr. Schedler

Associate Professor: Dr. Mehl

Assistant Professor: Dr. Jakubowski

Visiting Assistant Professors: Dr. Deitrick, Dr. Pojman

ness 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, even years.

3301 MEDIEVAL PHILOSOPHY One of the history of philosophy sequence. 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, odd years.

3303 NINETEENTH-CENTURY PHILOSOPHY One of the history of philosophy sequence. 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. On demand.

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. Fall, odd years.

3325 POLITICAL PHILOSOPHY An elective course for majors and minors in philosophy. 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. Fall, even years.

3331 PHILOSOPHY OF RELIGION An elective for majors and minors in philosophy and 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. Fall, odd years.

3341 THEORIES OF KNOWLEDGE An elective course for majors and minors in philosophy but open to others with interest. A systematic exposition and critical analysis of some of the following problems in the theory of knowledge: concepts of truth, theories of perception, personal identity and knowledge of other minds, and alternative conceptions of the nature and limits of knowledge, including rationalism, empiricism, and intuitionism. Combines lecture and discussion methods. On demand.

3345 FEMINIST PHILOSOPHY An elective course for philosophy majors and minors but open to other students with interest in the topic. An examination of recent criticisms feminists have made of philosophy—both of how it is practiced and of the particular theories of traditional philosophers. Combines lecture and discussion methods. On demand.

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 art. A study of the nature and purpose of the arts and of the experience of value through artistic creation and appreciation. Combines lecture and discussion methods. On demand.

3380 PHILOSOPHY OF SCIENCE An elective course for majors and 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 and 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

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 of instructor. On demand.

4301 PHILOSOPHY FOR HONORS TUTORIAL Independent study designed to provide the exceptional student an opportunity to do advanced philosophical research. Does not count toward the major. Prerequisite: Invitation by the philosophy department.

4305 TWENTIETH-CENTURY CONTINENTAL PHILOSOPHY One of the history of philosophy sequence. A focused study of one or two areas of twentieth-century continental philosophy. These areas include phenomenology, existentialism, hermeneutics, and postmodernism. Philosophers studied include Husserl, Heidegger,



students majoring in other fields of study who elect to include courses in political science as a part of their general requirements. In addition, the department administers an undergraduate program in public administration with the goal of preparing students for careers in local, state, and/or federal government.

Courses offered deal with the place of politics in society and contribute to an understanding and appreciation of the purposes, organization, and operation of domestic and international political systems.

THE HONORS PROGRAM IN POLITICAL SCIENCE

Senior students who have demonstrated exceptional achievement in political science may participate in the honors program. Successful completion of the program allows the student to graduate with honors in political science. The requirements are

2340 STATE AND LOCAL GOVERNMENT A requirement for the



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 social epidemiology, social factors that influence the medical institution, social construction of illness, and the doctor-patient relationship. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall, spring, summer.

4335 HEALTH ORGANIZATIONS A requirement for all medical concentration majors and an elective for other majors and minors. This course examines the development and current state of health care organizations and health care policies in the United States and other countries, focusing on detailed discussions of public and private insurance programs and policies. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall.

4341 POPULATION An elective for majors and minors. This course analyzes population data, trends, and theories from a sociological perspective, using sociological theories. Analysis includes the study of factors influencing fertility, mortality, and migration and the social consequences of these and other demographic variables. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

4342 SOCIAL INEQUALITY An elective for majors and minors. This course focuses on explanations for the nature of stratification in American society and includes recent historical and contemporary surveys of wealth and income distributions as related to ethnicity, gender, age, and education. Lecture and discussion. Prerequisite: SOC 1300. Fall.

4343 HEALTH STRATEGIES FOR MULTICULTURAL POPULATIONS A requirement for all medical concentration majors and an elective for other majors and minors. This course acquaints students with the health culture of various ethnic groups, examines the integration of health programs into their environment, and promotes the application of research skills in selected populations. Cross-listed

Dean and Professor: Dr. Ronald B. Toll, 450-3199

Associate Dean and Associate Professor: Dr. Stephen R.
Addison, 450-3199

MISSION

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.

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 em-

4410 BIOLOGY OF LOWER PLANTS AND FUNGI An elective course for biology majors. This field biology course examines mosses, ferns, algae, and fungi as they are found in natural habitats. Lecture and laboratory. Prerequisite: BIOL 1441. Spring, alternate years.

4415 EVOLUTION An elective course for biology majors. This course introduces biological evolution from the Darwinian and Neo-Darwinian perspectives and emphasizes mechanisms of evolutionary change and an overview of the history of life on earth. Lecture and laboratory. Prerequisite: BIOL 2490. Fall, spring.

4430 COMPARATIVE VERTEBRATE ANATOMY An elective course for biology majors. This course examines the comparative gross anatomy of vertebrates. Laboratory work includes dissection of the dogfish shark, *Necturus*, and cat. Lecture and laboratory. Prerequisite: BIOL 1441. Spring.

4435 ANIMAL BEHAVIOR An elective course for biology majors. This course involves analysis of animal behavior from an ecological and evolutionary perspective. Lecture and laboratory. Prerequisites: BIOL 2490 and CHEM 1451. Pre- or corequisite: MATH 2311. Spring.

4440 ENTOMOLOGY An elective course for biology majors. This course involves study of the classification, evolution, anatomy, physiology, behavior, and ecology of insects. The course also explores how insects affect our lives and how harmful insects are controlled. Prerequisite: BIOL 1441. On demand.

4445 BIOMETRY An elective course for biology majors. This course involves applied biological statistics with an emphasis on experimental design and data analysis. Lecture and laboratory. Prerequisites: BIOL 1441 and MATH 2311. On demand.

4450 PLANT PHYSIOLOGY An elective course for biology majors. This course involves study of the metabolism of plants, with emphasis on cell function, energy relations, translocation, nutrition, and developmental regulation. Lecture and laboratory. Prerequisite: BIOL 3402. Fall, alternate years.

4460 ANIMAL PHYSIOLOGY An elective course for biology majors. This course examines the function of the organ systems in vertebrate and invertebrate animals. Laboratory work includes collection and analysis of data using living material. Lecture and laboratory. Prerequisite: BIOL 3402. Spring.

4461 PARASITOLOGY An elective course for biology majors. This course introduces students to the taxonomy, morphology, ecology, and life cycles of animal parasites. Lecture and laboratory. Prerequisite: BIOL 1441. Spring, alternate years.

4470 BIOLOGY OF SEED PLANTS An elective course for biology majors. This course involves study of the adaptations that have made seed plants the most successful plants in the biosphere. Lecture and laboratory. Prerequisite: BIOL 1441. Spring, alternate years.

4525 GENERAL MICROBIOLOGY AND IMMUNOLOGY An elective course for biology majors. This course involves basic concepts

of bacteriology, virology, molecular biology, immunology, and pathogenic microbiology. Open only to biology majors unless instructor's permission obtained. Lecture and laboratory. Prerequisite: BIOL 1441. Fall, spring.

4530 EXPERIMENTAL MOLECULAR BIOLOGY An elective course for biology majors. This course introduces students to the molecular biology of nucleic acids with an emphasis on biotechnology and genetic engineering. The laboratory experience is a major component of this course. Lecture and laboratory. Prerequisites: BIOL 3402. Spring, alternate years.

4540 BASIC AND APPLIED IMMUNOLOGY An elective course for biology majors. This course covers cellular and molecular aspects of immunity, clinical immunology techniques, immune diseases and disorders, and the role of the immune system during infection and cancer. Lecture and laboratory. Prerequisites: BIOL 2490 and 3402 or 4525. Spring, alternate years.

3X45 INTERNSHIP IN BIOLOGY An elective course for biology majors who have completed 60 hours of course work with a GPA of a least 2.5. An internship is an opportunity to apply classroom experience in biology to an employment situation. Internships are normally limited to one semester. Up to 4 hours of biology elective credit may be satisfied by an internship experience. Prerequisites: Approval of the department and selection by sponsor.

3150, 3250, 3350, 3450, 4355, 4455 SPECIAL PROBLEMS IN BIOLOGY Individual work under faculty supervision, designed to supplement regularly organized courses in biology and to serve as an introduction to research. Prerequisite: Prior consent of advisor and department. Fall, spring, summer.

COURSES AT THE GULF COAST RESEARCH LABORATORY

The University of Central Arkansas is affiliated with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi. Students may take courses there and receive credit at UCA.

UCA advisor: Dr. Culwell.

Prerequisite for all courses: BIOL 1441 and consent of department.

The following courses offered at GCRL can be used to satisfy up to 4 semester hours of the biology elective credit requirement at UCA. Special Problems in Marine Science (course #490) may satisfy up to 4 additional hours of the biology elective credit requirement upon approval of the biology department's Special Problems Committee.

	SCH
301	Marine Science II: Marine Biology 3
301L	Marine Science II: Marine Biology Lab 2
403/503	Marine Invertebrate Zoology 3
403L/503L	Marine Invertebrate Zoology Lab 3
404/504	Parasites of Marine Animals 3
404L/504L	Parasites of Marine Animals Lab 3

Chair and Professor: Dr. Stanitski, 450-3152

Professors: Dr. Krause, Dr. Manion, Dr. Paul

Associate Professors: Dr. Dorey, Dr. J. Draves, Dr. P. Draves, Dr. Taylor

Assistant Professors: Dr. Desrochers, Dr. Isom, Dr. Weaver, Dr. Wesolowski

BACCALAUREATE DEGREES: BACHELOR OF SCIENCE

The degree of Bachelor of Science, with a major described below, requires successful completion of 124 hours, including (1) the gen-

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.

The chemistry department curriculum is approved by the Committee on Professional Training of the American Chemical Society.

THE HONORS PROGRAM IN CHEMISTRY

Junior or senior students with an overall GPA of 3.25, a chemistry GPA of 3.4 or better, and the consent of the department chair may be allowed to participate in a program which, when successfully completed, will allow them to graduate with honors in chemistry. This program consists of not less than two semesters of laboratory research on a chemistry problem and the writing of an acceptable report on the research completed.

3000-level or higher. BIOL 4340, CHEM 4112, CHEM 4290, and CHEM

als science. Three hours of laboratory per week. Pre- or corequisites:

three hours of laboratory per week. Prerequisites: CHEM 1451, PHYS 1442, and MATH 2561. Spring.

4451 ADVANCED ANALYTICAL CHEMISTRY An upper division elective 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 which 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

Chair and Professor: Dr. Ali, 450-3401

Associate Professors: Dr. Abuelyaman, Dr. Brown, Dr. Tomer

Assistant Professors: Dr. Forbes

Lecturers: Mr. Smith, Mrs. Thessing

PURPOSES

The department offers a computer science curriculum leading to the Bachelor of Science degree with a major in computer science. The degree emphasizes problem solving in the context of software development and prepares students for the software engineering field. The BS includes a major component of science and mathematics. The degree curriculum provides courses in programming languages, software design techniques, computer organization, data structures, operating systems, and other topics in computer science. The purpose of the BS in computer science is twofold: (1) to prepare the student for a software engineering position involving the design and implementation of software and systems and (2) to prepare the student for entry into a program of graduate study in computer science.

The department of computer science also offers a computer science curriculum leading to a minor in computer science. This curriculum is designed to give the student an exposure to computer science that complements other degree programs.

THE HONORS PROGRAM IN COMPUTER SCIENCE

Junior and senior students who have demonstrated superior achievement in all areas and particularly in their computer science major will be invited to participate in an advanced honors program. These students will engage in investigations in special computer science topics. The successful completion of their research will make these students eligible to graduate with honors in computer science.

BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

The Bachelor of Science, with a major in computer science, requires successful completion of 124 hours, including (1) general education requirements, (2) degree requirements, (3) major requirements outlined below, and (3) a minor.

Major in Computer Science 41 hours

CSCI 1470, 1480, 2350, 3300, 3320, 3350, 3370, 3390, 4300, and 12 hours of electives to be chosen from CSCI 3330, 4320, 4330, 4350, 4360, 4370, 4380, 4195, 4295, 4395.

The following mathematics courses (14 hours) are required: MATH 1591, 2311 or 4371, 2330, and 3320.

The following science courses (16 hours) are required: BIOL 1400 or

ogy. Coverage includes data retrieval, creation of forms, and report generation. Fall, spring, summer.

1120 INTRODUCTION TO PRESENTATION SOFTWARE A service course for non-majors. This course is an introductory course for the use of presentation and authoring software tools. Fall, spring, summer.

1125 INTRODUCTION TO WORD PROCESSING A service course for non-majors. This course is an introductory course to electronic word processing using commercially available word processing software packages. A basic knowledge of computer usage is assumed. Fall, spring, summer.

1130 INTRODUCTION TO INTERNET A service course for non-majors. It is an introductory course on the use of the internet and the World Wide Web, covering HTML and search engines as well as legal, ethical, social, and other web-related issues. Fall, spring, summer.

1300 INTRODUCTION TO COMPUTERS A service course for non-majors that teaches fundamental concepts and terminology of computing, history of computing, social impact of computers, software concepts, problem-solving, introduction to computer operations with popular system software such as Microsoft *Windows*. Introduction to data processing with a word processor, an electronic spreadsheet, and a database management system, all in an integrated environment. Fall, spring, summer.

1340 INTRODUCTION TO PROGRAMMING I An introductory course for non-majors taking computer programming in a high-level language, with emphasis on problem solving and logical thinking. Students learn to design, implement, test, and debug programs for small-scale problems using elementary data types and control structures. Fall.

1350 INTRODUCTION TO PROGRAMMING II An advanced course for non-majors using techniques in computer programming using a high-level language. Topics include the use of recursion, pointers, and fundamental data structures in developing small-to medium-scaled programs. Spring

1470 COMPUTER SCIENCE I An introductory course for computer science majors and minors with major emphasis on problem solving and programming. The programming component covers data types, input/output statements, control statements, pointers, subprograms and functions, structures and unions. Prerequisite: MATH 1390. Fall, spring, summer.

1480 COMPUTER SCIENCE II A continuation of Computer Science I for majors and minors that emphasizes problem solving and programming using the object-oriented programming (OOP) paradigm. Prerequisites: CSCI 1470 and MATH 1390. Fall, spring, summer.

2350 ASSEMBLY LANGUAGE PROGRAMMING A required course for majors and minors. Number systems, internal representation of data, low-level hardware configurations and concepts, instruction sets, addressing schemes, interrupts, and system software. Both CISC and RISC are discussed. Lab assignments are done in IBM PC assembler (Intel i APX instruction set). Prerequisite: CSCI 1380. Fall, spring.

3300 COMPUTER ORGANIZATION A required course for majors. Introduction to the organization and design of digital computers, number systems and codes, Boolean algebra and simplification of Boolean functions, combinational logic, programmable logic, and synchronous sequential logic. Prerequisite: CSCI 2350. Fall, spring.

3320 INTRODUCTION TO DATA STRUCTURES A required course for majors and minors. Fundamental data structures, data types, abstract data types, algorithm analysis and design, lists, stacks, queues, binary trees, trees, hashing, graphs, sorting, and searching. Prerequisite: CSCI 1380. Fall, spring.

3330 ALGORITHMS An elective for majors. Design, efficiency, analysis, and order of algorithms, divide-and-conquer, greedy method, dynamic programming, search and traversal techniques, backtracking, and branch-and-bound. The theory of NP-Hard and NP-Complete problems is introduced. Prerequisites: CSCI 3320, MATH 1591, 2330. Spring.

3350 FILE PROCESSING

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nications hardware and software, communications monitors, polling, line protocols, partition management, future trends in communications. Prerequisite: Consent of instructor. Spring.

4350 INTERACTIVE COMPUTER GRAPHICS An elective for majors. Introduction to 3D computer graphics, computer graphics hardware and software, fundamental mathematics for graphics, and graphics programming techniques using the Open GL programming library. This is a programming intensive course. Prerequisites: CSCI 3320 and MATH 3320. Fall or spring.

4360 SPECIAL TOPICS IN COMPUTER SCIENCE An elective for majors. Study of new and advanced topics in computer science. Prerequisite: Consent of instructor. Fall or spring.

4370 DATABASE CONCEPTS An elective for majors. Three database models with the emphasis on relational database, the concept and mathematical foundations of relational database, the formalization of relations, the SQL database definition/manipulation language, and entity relationship database design method. Prerequisite: CSCI 3350. Fall.

4375 INTERNSHIP IN COMPUTER SCIENCE An elective for majors. The student enrolled in this course will work for a local industry, business, or government entity for approximately 20 hours per week for a semester. This course is reserved for upper-division computer science majors or minors.

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MATHEMATICS

Chair and Professor: Dr. Foss, 450-3147
Professors: Dr. Buchanan, Dr. Griffith, Dr. Huff, Dr. Peterson, Dr. Seifert
Associate Professors: Dr. Bratton, Dr. Butcher, Dr. Pinchback
Assistant Professors: Dr. Arrigo, Dr. Bernard, Dr. Chen, Dr. Hickling, Dr. Livshits, Dr. McGehee, Mr. McKim
Lecturer: Ms. Royster
Instructors: Ms. Murphy, Dr. Price, Ms. J. Smith, Ms. K. Smith

PURPOSES

Through programs in mathematics, applied mathematics, and mathematics education, the undergraduate mathematics curriculum furnishes the necessary background for specialization in technical fields, graduate study in mathematics, teaching mathematics at elementary, middle, and secondary levels, and work in business, industry, and government.

THE HONORS PROGRAM IN MATHEMATICS

Junior and senior students who have demonstrated superior achievement in all areas, particularly in their mathematics major, may be invited to participate in an advanced honors program. These students engage in investigations in special topics while enrolled in a special problems or research course (MATH 4380 or MATH 4381). The successful completion of these research studies make the students eligible to graduate with honors in mathematics.

BACCALAUREATE DEGREES

Bachelor of Arts

The Bachelor of Arts degree with a major in mathematics requires successful completion of 124 hours including (1) the general education component, (2) degree requirements, (3) major requirements listed below, and (4) a minor approved by the student's minor advisor.

Major in Mathematics 34 hours

MATH 1591, 2561, 3320, 3321, 3360, 3362, 4362, 4371; six hours of electives chosen from the following courses: MATH 3331, 4305, 4306, 4340, 4363, 4372, 4373, 4375, 4385.

Minor in Mathematics 19 hours

MATH 1591, 2561, 3320 or 3360, and six hours of mathematics electives selected from 3320, 3321, 3331, 3360, 3362, 4305, 4340, 4371, 4385.

Bachelor of Science

The Bachelor of Science degree with a major in mathematics or applied mathematics requires successful completion of 124 hours including (1) the general education component, (2) degree requirements, (3) major requirements listed below, and (4) a minor approved by the student's minor advisor.

Major in Mathematics 34 hours

MATH 1591, 2561, 3320, 3321, 3360, 3362, 4362, 4371; six hours of electives chosen from the following courses: MATH 3331, 4305, 4306, 4340, 4363, 4372, 4373, 4375, 4385.

Major in Applied Mathematics 35 hours

MATH 1191, 1591, 2561, 3320, 3321, 3331, 4305, 4306, 4371, 4372; a minimum of three hours of electives chosen from the following courses: MATH 4340, 4362, 4363, 4373, 4375, 4385.

Minor in Mathematics 19 hours

MATH 1591, 2561, 3320 or 3360 and six hours of mathematics electives selected from 3320, 3321, 3331, 3360, 3362, 4305, 4340, 4371, 4385.

Bachelor of Science in Education

Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Mathematics (450-3147), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

MASTER'S DEGREE

See *Graduate Bulletin*.

COURSES IN MATHEMATICS (MATH)

1150 MATH DISCOVERY SEMINAR The purpose of the seminar is to improve students' analytical thinking and problem-solving skills early in their mathematics careers by introducing the logical foundations of mathematics and by developing and implementing group and individual problem-solving strategies. Seminar format. Prerequisite: MATH 1390 or equivalent. Fall.

1191 MATH SOFTWARE Required course for a major in applied mathematics. An introduction to computer algebra software, such as *Mathematica*, *Derive*, or other current software. The course provides students with basic computer skills for applications throughout the mathematics curriculum and prepares students who are enrolled in calculus or pre-calculus to use technology to enhance their understanding of mathematics. Laboratory. Prerequisite: MATH 1390 or equivalent. Fall, spring.

1360 MATHEMATICS FOR GENERAL EDUCATION A course which meets the general education aims of the university through the study of topics in contemporary mathematics. Upon completion of the course, students will be able to apply principles of mathematics to real-world situations, create mathematical and statistical models of these situations, and use these models to solve problems. The primary method of instruction is lecture/demonstration. Prerequisite: Math ACT of 19 or higher or C or better in UNIV 1340. Fall, spring, summer.

1390 COLLEGE ALGEBRA A course which meets the general education aims of the university by providing a solid foundation of algebraic concepts. The course includes the study of functions, relations, graphing, and problem solving, and provides a knowledge of how to apply these concepts to real problem situations. The primary method of instruction is lecture/demonstration. Prerequisite: MATH ACT of 19 or higher or C or better in UNIV 1340. Fall, spring, summer.

1392 PLANE TRIGONOMETRY Coupled with College Algebra (MATH 1390), this course satisfies the prerequisite for Calculus I (MATH 1591) as an alternative to MATH 1580. Topics include angles and their measure, measurement of triangles, graphs and applications of trigonometric functions, inverse trigonometric functions and their uses, vectors, polar coordinates, and complex numbers. Prerequisite: MATH 1390 or equivalent. Lecture format. Fall, spring, summer.

1395 APPLIED CALCULUS FOR BUSINESS AND ECONOMICS As a component of the business foundation, this course is a requirement for all majors in the College of Business Administration. The course is an introduction to matrix algebra and calculus involving algebraic, exponential, and logarithmic functions including explanations of various quantitative methods used in business and economics. Problem solving and calculator technology (matrix, numerical methods, graphing) will be emphasized. Prerequisite: MATH 1390 or equivalent. Fall, spring, summer.

1396 CALCULUS FOR THE LIFE SCIENCES This course is a brief

ready have credit for MATH 1390 or MATH 1392. Prerequisite: Math ACT of 19 or higher or C or better in UNIV 1340. Fall, spring.

1591 CALCULUS I As a prerequisite for nearly all upper-division mathematics courses, this course is a requirement for majors and minors in mathematics and other majors in the sciences, and is a cornerstone course that is essential in the study of mathematics, the natural sciences, and engineering. A study of limits, continuity, derivatives, integrals, and their applications. Lecture and problem solving activities. Prerequisites: C or better in MATH 1390 and C or better in MATH 1392, or C or better in MATH 1580, or consent of instructor. Fall, spring.

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

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

2561 CALCULUS II Required of all students majoring or minoring in mathematics, chemistry, or physics. Topics include applications of the definite integral, techniques of integration, infinite series, conics, parametric equations, polar coordinates, vectors, and vector functions. This lecture course is a prerequisite for Calculus III and other mathematics courses. Prerequisite: C or better in MATH 1591 Calculus I. Fall, spring.

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 is a required course for all majors in mathematics and computer science. This course introduces students to 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 2561 Calculus II. Fall, spring, summer.

3321 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. Prerequisite: C or better in MATH 2561. Fall, spring.

3331 ORDINARY DIFFERENTIAL EQUATIONS This course is required in the applied mathematics major 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 are drawn from the natural sciences and engineering. Prerequisite: MATH 2561. Fall, spring.

3351 NUMBER SYSTEMS FOR ELEMENTARY TEACHERS A professional development course required for elementary education majors. A primary goal is to organize mathematical knowledge of the real number system so that students can 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 with manipulatives and problem solving. Prerequisite: Admission to teacher education. Fall, spring, summer.

3360 INTRODUCTION TO ABSTRACT ALGEBRA I Required course 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 2561. Fall.

3362 INTRODUCTION TO ABSTRACT ALGEBRA II Required course 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.

4301 SECONDARY MATHEMATICS METHODS This course is designed for students with a major or minor in mathematics who plan to seek teacher licensure. Topics include curricula for secondary mathematics courses, NCTM standards, planning and organization in the classroom, 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 3321. Fall.

4305 APPLIED MATHEMATICS I Required course for majors in applied mathematics. An elective course for mathematics majors. 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 Required course for majors in applied mathematics. An elective course for mathematics majors. A project-oriented continuation of MATH 4305 that applies differential equations and other methods to solve realistic problems from science, business, and industry. Prerequisite: MATH 4305. Spring.

4310 TOPICS IN MATHEMATICS FOR ELEMENTARY TEACHERS A professional development course for elementary and middle school preservice teachers. Mathematical topics include geometry,

probability, statistics, measurement, NCTM standards, and technology. Class discussions, presentations, article critiques, and discovery learning are central to the course. Prerequisite: C or better in MATH 3351 or equivalent. Fall, spring, summer.

4312 THE METRIC SYSTEM AND OTHER TOPICS FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS A professional development course for elementary and middle school preservice teachers. Topics include converting in the metric system, measurement, geometry, and number systems. This activity-oriented course includes numerous hands-on materials for measuring and converting, presentations, article critiques, NCTM standards, and cooperative learning. Prerequisite: C or better in MATH 3351 or equivalent. Fall, spring, summer.

4340 NUMERICAL METHODS Introduction to the use of methods of numerical analysis with modern high speed computers. Topics may include methods of solving nonlinear equations, linear and nonlinear systems, polynomial approximation, curve fitting, numerical differential equations, numerical optimization. Prerequisite: MATH 3320, MATH 3321, and CSCI 1470 or equivalent knowledge of computer languages.

4345 COLLEGE GEOMETRY Required course for majors or minors in mathematics who plan to seek teacher licensure. The course focuses on the elementary theory in foundations of geometry, advanced Euclidean geometry, and introduces transformations and non-Euclidean geometries. Problem solving, discovery activities, and lecture. Prerequisite: MATH 1591. Spring, summer.

4350 INTRODUCTION TO THE HISTORY OF MATHEMATICS Required course for majors in mathematics who plan to seek teacher licensure. The course traces the historical development of topics encountered in the secondary mathematics curriculum from the rise of civilization through the eighteenth century. The purpose of this course is to provide the prospective teacher with an understanding of the evolution of mathematical concepts and a pedagogical appreciation for the problems involved in their development. Lecture and classroom discussion. Prerequisite: MATH 2561. Fall.

4362 ADVANCED CALCULUS I Required course for mathematics majors. An elective course for applied mathematics majors. A rigorous theoretical treatment of calculus: completeness, compactness, connectedness, sequences, continuity, differentiation, integration, and series. Lecture format and problem solving. Prerequisite: MATH 3321. Fall.

4363 ADVANCED CALCULUS II An elective course for mathematics and applied mathematics majors. Multi-dimensional continuation of Advanced Calculus I. Prerequisite: MATH 4362. Spring.

4371 INTRODUCTION TO PROBABILITY A required course for all majors in mathematics and applied mathematics. A calculus-based introduction to probability and the distributions and properties of several discrete random variables, including hypergeometric, geometric, binomial, negative binomial, Poisson, and the distributions and properties of several continuous random variables, including normal, gamma, uniform, chi-squared, t, and F. Lecture and projects. Prerequisite: MATH 2561. Fall.

4372 INTRODUCTION TO STATISTICAL INFERENCE A required course for majors in applied mathematics and elective for majors in mathematics. Introduction to the theory of statistical inference including sampling distributions, point and interval estimation, hypothesis testing, and introduction to linear models. Lecture and projects. Prerequisite: MATH 4371. Spring.

4373 APPLIED STATISTICS An elective course for majors in mathematics or applied mathematics. An introduction to simple and multiple linear models and the analysis of variance (ANOVA). Students will learn how to estimate the parameters of linear models and test estimates. Students will learn basic designs of experiments and data analysis using ANOVA and examine applications in business and industry. Prerequisite: MATH 4372.

4375 INTRODUCTION TO TOPOLOGY I An elective for all mathematics majors and minors. This course introduces students to generalizations of the notion of continuous. In particular, what are the minimum conditions on a set necessary to be able to describe continuous functions? This is accomplished either in a formal setting via point set topology or informally using examples from a variety of different sources including knots, surfaces, or function spaces. Lecture or seminar. Prerequisite: Consent of instructor.

4380, 4381 SPECIAL PROBLEMS IN MATHEMATICS Independent study or research project in a chosen area of advanced mathematics. Prerequisite: Consent of instructor. Fall.

4385 COMPLEX ANALYSIS This course is an elective for majors or minors in mathematics. The content of the course includes the arithmetic and geometry of the complex numbers, extension of transcendental functions to the field of complex numbers, analytic function theory, contour integration, and the Cauchy Integral Theorem, series, calculus of residues, and harmonic functions. This course is fundamental to physics and engineering and is a fertile source of problems in pure mathematics. Lecture and classroom discussion. Prerequisite: MATH 3321.

TRANSITIONAL COURSE (UNIV)

1340 INTERMEDIATE ALGEBRA Entering students with a Math ACT below 19 are required to register for this course during their first enrollment period and during each subsequent enrollment period until they earn a course grade of C or higher. Three unsuccessful attempts to earn a course grade of C or higher will result in the student not being allowed to take further classes at UCA until this course is successfully completed elsewhere. Intermediate Algebra students must score at least 60% on the departmental final examination to be eligible to pass the course. This course introduces students to fundamental processes: functions, graphing, linear equations and inequalities, quadratic equations, factoring, operations with real numbers, polynomials, rational expressions, and radicals. UNIV 1340 will not count for credit toward a degree for any student. Lecture and activity based. Prerequisite: None. Fall, spring, summer.

PHYSICS AND ASTRONOMY

Interim Chair and Associate Professor: Dr. Ross, 450-5900

Professor: Dr. Pray

Associate Professors: Dr. Addison, Dr. Gaiser, Dr. Mehta, Dr. Woolverton

Assistant Professors: Dr. Austin, Dr. Frederickson

PURPOSES

Curricula offered by the Department of Physics and Astronomy serve two main purposes: first, to contribute to the knowledge and awareness of non-science students in order to prepare them to appreciate and understand the nature of the physical world and how science operates to achieve comprehension of the physical world; second, to prepare science students for graduate study or the workplace. A range of courses designed for the physics major are offered to establish a broad and secure foundation in any of several disciplines in the field.

THE HONORS PROGRAM IN PHYSICS

Junior and senior students with overall grade point averages of at least 3.0 and having the consent of the department may be allowed to participate in a program that, when successfully completed, will allow them to graduate with honors in physics. This program will consist of not less than two semesters of research in physics or astronomy and the writing and oral defense of an honors thesis.

BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

Major in Physics

A physics degree is an excellent preparation for much more than just a career in physics. The technical expertise and cognitive skills acquired in earning a physics degree are valuable in many endeavors.

The BS in physics makes the advantages of a physics degree available to a wide range of students. The program allows the student to choose one of a number of tracks to fit his or her interests and goals. The tracks are *physics*, *biological physics*, *chemical physics*, *mathematical physics*, *physics education*, *physical science*, and *applied physics*.

A BS degree with a major in physics requires the successful completion of (1) general education requirements, (2) degree requirements, (3) major requirements listed below, and (4) a minor, if required, to be worked out with the student's minor advisor.

Core

All tracks of the BS in physics program require completion of a 28-hour core, consisting of 15 hours of physics and 13 hours of mathematics.

Core physics courses:

PHYS 1441 University Physics 1*

PHYS 1442 University Physics 2*

PHYS 2443 University Physics 3*

PHYS 3110 Junior Laboratory 1

PHYS 3120 Junior Laboratory 2

PHYS 4110 Senior Laboratory

*For the biological physics, physics education, and physical science tracks, the University Physics course sequence may be replaced by the College Physics course sequence:

PHYS 1410 College Physics 1

PHYS 1420 College Physics 2

PHYS 2430 College Physics 3

Core mathematics courses:

MATH 1591 Calculus I

MATH 2561 Calculus II

MATH 3321 Calculus III

The department faculty offer a variety of student research projects in many areas of physics. All physics majors are encouraged to participate in research, for which credit may be obtained.

Physics Track

This is the traditional physics track, offering excellent preparation both for those planning a physics- or astronomy-related career, including graduate school, and for those desiring a physics degree for entry into other fields, such as engineering. The program is very flexible and can be tailored to the needs and interests of the individual student by using electives, of which at least 13 hours are required. The student's advisor will work closely with the student to achieve the optimal curriculum for the student.

This track requires a minor. The requirements for a mathematics minor are met by the mathematics courses required by the core and the track.

Another possibility is a double major in physics and mathematics, in which the student fulfills the separate major requirements of physics and mathematics. In that case the requirement of a minor is waived.

In addition to the core, the following courses are required:

Physics courses:

PHYS 3341 Mathematical Methods in Physics

PHYS 3342 (or ENGR 3342) Mechanics

PHYS 3343 (or ENGR 3343) Thermal Physics

PHYS 3353 Quantum Theory 1

PHYS 3360 (or ENGR 3360) Electromagnetism 1
 PHYS 3361 (or ENGR 3361) Electromagnetism 2
 And a minimum of 13 hours of elective courses approved by the Department of Physics and Astronomy. These may include up to 3 hours of special problems.

Mathematics courses:

MATH 3320 Linear Algebra and Matrices
 MATH 3331 Differential Equations

Physics hours required:	46
Mathematics hours required:	19
TOTAL	65

A suggested sequence for physics and mathematics courses—the actual sequence might differ due to variations in course scheduling—is:

Freshman – fall

PHYS 1441 University Physics 1
 MATH 1591 Calculus I

Freshman – spring

PHYS 1442 University Physics 2
 MATH 2561 Calculus II

Sophomore – fall

PHYS 2443 University Physics 3
 MATH 3320 Linear Algebra and Matrices
 MATH 3321 Calculus III

Sophomore – spring

PHYS 3341 Math Methods in Physics
 MATH 3331 Differential Equations

Junior – fall

PHYS 3110 Junior Laboratory 1
 PHYS 3342 Mechanics
 PHYS 3353 Quantum Theory 1
 Upper-division courses

Junior – spring

PHYS 3120 Junior Laboratory 2
 PHYS 3343 Thermal Physics
 Upper-division courses

Senior – fall

PHYS 3360 Electromagnetism 1
 PHYS 4110 Senior Laboratory
 Upper-division courses

Senior – spring

PHYS 3361 Electromagnetism 2
 Upper-division courses

Biological Physics Track

The biological physics track offers a physics-based curriculum for students planning to enter medical school. It also serves as an excellent entry into medical physics and health-related fields, including graduate study. Note: It appears that one of the best predictors for acceptance into medical school is a physics degree. This track does not require a minor.

For the courses required in addition to the core and for a suggested sequence of physics, mathematics, biology, and chemistry courses, please contact the department chair or visit the department's home page on the UCA website.

Physics hours required:	24
Mathematics hours required:	16
Biology hours required:	16
Chemistry hours required:	16
TOTAL	72

Chemical Physics Track

The chemical physics track provides an excellent preparation for entering the chemistry-oriented industrial work force or for continued study in engineering or graduate school.

This track does not require a minor. However the chemistry courses required by the track are more than sufficient for a minor in chemistry, and the requirements for a mathematics minor are met by the mathematics courses required by the core and the track.

For the courses required in addition to the core and for a suggested sequence of physics, mathematics, and chemistry courses, contact the department chair or visit the department please2eeringj0 -2.4 TD0.0002 Tc-0
 Chemistry56ours required: 16

Physics hours required:	42
Mathematics hours required:	37
TOTAL	79

Physics Education Track

This track is recommended by the Department of Physics and Astronomy for those students planning to become high-school teachers of physical science (including earth science). This track requires a minor.

Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Physics and Astronomy (450-5900), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).

For the courses required in addition to the core and for a suggested sequence of courses, please contact the department chair or visit the department's home page on the UCA website.

Physics hours required:	24
Earth science hours required:	8
Teaching methods hours required:	3
Mathematics hours required:	13
Chemistry hours required:	8
Computer science hours required:	3
Other hours required:	3
TOTAL	62

Physical Science Track

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 visit the department's home page on the UCA website.

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

Applied Physics Track

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 visit the department's home page on the UCA website.

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

Minor in Physics 24 hours

- PHYS 1441 University Physics 1*
- PHYS 1442 University Physics 2*
- PHYS 2443 University Physics 3*
- PHYS 3110 or 3120 Junior Laboratory
- PHYS 3342 (or ENGR 3342) Mechanics

And minimum of 8 hours of elective courses approved by the Department of Physics and Astronomy. These may include up to 3 hours of special problems.

*The University Physics course sequence may be replaced by the College Physics Course sequence:

- PHYS 1410 College Physics 1
- PHYS 1420 College Physics 2
- PHYS 2430 College Physics 3

Related requirements:

- MATH 1591 Calculus I
- MATH 2561 Calculus II
- MATH 3321 Calculus III

Major in General Science

See Department of Chemistry.

Minor in Physical Science 24 hours

- CHEM 1450 and 1451 and either 2401 or 3520; PHYS 1410 and 1420 (or PHYS 1441 and 1442), and either 1401 or 2430 (or 2443); MATH 1390 and 1392, or 1580, or equivalent.

calculus, matrices, complex variables, series solutions to differential equations, special functions, and other areas of mathematics that are important for physics. Emphasis in all areas is placed on problems encountered in physics and their solutions. Lecture. Prerequisites: PHYS 1442 or 1420 and MATH 3320, 3321. Spring.

3342 MECHANICS General principles of classical mechanics with an introduction to Hamilton's principle, Lagrange's equation, and the Hamilton-Jacobi equation. Lecture. Prerequisites: PHYS 1441 or 1410 and MATH 3321, 3331. Fall, even years.

3343 THERMAL PHYSICS The fundamental principles of thermodynamics and statistical physics. Lecture. Prerequisites: PHYS 2443 or 2430 and MATH 3321. Spring, odd years.

3345 OPTICS A study of geometrical and physical optics. Topics include reflection, refraction, wave, equation, interference, diffraction, polarization, absorption, and coherence. Lecture. Prerequisites: PHYS 2443 or 2430, and MATH 3321. 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 applications to quantum systems. Lecture. Prerequisite: PHYS 3353. Spring, odd years.

3360 ELECTROMAGNETISM 1 The fundamental principles of electricity and magnetism are presented through the theory of fields. Electric and magnetic fields, their interaction with matter, and their behavior as expressed by Maxwell's equations are explored. Lecture. Prerequisites: PHYS 1442 or 1420 and MATH 3321. Fall, odd years.

3361 ELECTROMAGNETISM 2 Continuation of PHYS 3360. Propagation, reflection, refraction, and radiation of electromagnetic waves.

INTERDISCIPLINARY PROGRAMS

Biology Track Requirements (32 hours)

BIOL 4401	Invertebrate Zoology
BIOL 4402	Vertebrate Zoology
BIOL 4403	General Ecology
BIOL 4404	Plant Taxonomy
MATH 1392	Trigonometry
CHEM 2440	Organic Chemistry I
CHEM 3520	Quantitative Analysis
CHEM 4451	Environmental Chemistry

Biology Track Electives (12 hours from the following)

Environmental internship (BIOL 3X45) or any of the following: BIOL 2490, 3360, 4415, 4435, 4445, 4525; GEOG 2345, 3306, 3385, 4304, 4305, 4308, 4330.

Chemistry Track (40 hours)

The emphasis of the chemistry track is to give students an appreciation for the critical balance of natural chemical phenomena and the perturbations induced by pollution. The environmental science core courses provide the chemistry track student a context in which environmental chemistry work is conducted and aid in understanding the importance of the chemical and biological data on which policy decisions are based.

Chemistry Track Requirements (25 hours)

CHEM 1450	General Chemistry I
CHEM 1451	General Chemistry II
CHEM 2401	Organic Chemistry I
CHEM 3411	Organic Chemistry II
CHEM 3520	Quantitative Analysis
CHEM 4351	Environmental Chemistry
CHEM 4152	Environmental Chemistry Laboratory
BIOL 4403	General Ecology
PHYS 1410	College Physics 1

Chemistry Track Electives (15 hours from the following)

1. Minimum of 8 hours from the following chemistry courses: CHEM 3300, 3360, 3411, 4320, 4121, 4380, 3150, 4450, 4460, and 4451.
2. Minimum of 4 hours from the following biology courses: BIOL 4401, 4402, and 4404.
3. Minimum of 3 hours from the following geography courses: GEOG 2345, 2320, 3351, 4303, and 4305.

Planning and Administration Track (42 hours)

The planning and administration track is intended to bridge the gap between the scientists who gather environmental data and those who develop the programs and policies related to environmental problems. This track trains individuals to work with numerous experts from diverse fields, to synthesize various and often conflicting perspectives, to arrive at viable and practical solutions, and to communicate with diverse audiences such as governmental agencies, citizen committees, and corporate decision-makers.

Planning and Administration Track Requirements (30 hours)

INFO 1343	Information Processing and Analysis
INFO 3321	Managing Systems and Technology
GEOG 2320	Introduction to Geographic Information Systems (GIS)
GEOG 2345	Geographic Information Techniques
GEOG 3325	Urban and Regional Planning or
PSCI 4351	Community and Regional Planning
PSCI 2340	State and Local Government
PSCI 3360	Public Administration
SOC 1300	Principles of Sociology
HED 4393	Environmental Health Problems
HIST 4301	American Environmental History

Planning and Administration Track Electives (12 hours from the following)

Any approved elective for the environmental science biology or chemistry track or any of the following: GEOG 3325, 3333, 3306, 3351, 3361, 3371, 3375, 4303, 4305, 4308, 4313, 4330, 4X60; SOC 3340, 4301, 4321, 4341; PSCI 3350, 3365, 3372, 4336, 4351, 4391, 4X99; INFO 2322, 3328, 4350, 4362.

COURSES IN ENVIRONMENTAL SCIENCE (ENVR)

3410 INTRODUCTION TO ENVIRONMENTAL SCIENCE A core course for environmental science majors. This course provides an introduction to the environmental problems facing mankind, the scientific, economic, and social bases of these problems, potential solutions, and methodologies of environmental assessment. Prerequisites: BIOL 1441, CHEM 1451, and GEOG 1315 or PHYS 1402. Spring.

4310 PRACTICUM IN ENVIRONMENTAL SCIENCE A core course for environmental science majors. This course involves supervised research on environmental problems using modern field collection techniques and methods of data analysis and interpretation. This course requires cooperative research with other students to fully investigate an environmental topic. Prerequisites: Junior standing (or higher) and ENVR 3410. Fall.

LATIN AMERICAN STUDIES MINOR

Coordinator and Assistant Professor: Dr. Allender (Geography), 450-5641

PURPOSE

Latin American studies is an interdisciplinary program designed to provide students with a broad understanding of the unique culture, history, geography, politics, economies, and physical environment of South and Central America and the Caribbean.

Minor in Latin American Studies 18 hours

The minor in Latin American Studies requires successful completion of the requirements listed below:

1. Four required core courses: GEOG 3315, HIST 3315, PSCI 4340, and a capstone independent studies course developed in consultation with the student, the program coordinator, and an instructor from the Latin American studies core or elective courses.
2. Two elective courses selected from the following group: HIST 4305, 4328, 4353; SOC 4390; SPAN 2320, 2330, 3313, 3321, 3398, 4395, 4396; FLAN 2315 (when Latin American topic is offered).
3. Foreign language requirement (the same as for a Bachelor of Arts degree): passing (or testing out of) SPAN 2300 or 2310 (i.e., passing the third semester of Spanish).

Director and Associate Professor: Dr. Mehl (Philosophy and Religion), 450-3207

Professors: Dr. Barnes (History), Dr. Brodman (History), Dr. Corcoran (History), Dr. Fox (Sociology), Dr. Frontain (English), Dr. Harvey (Philosophy and Religion), Dr. Pouwels (History), Dr. Schedler (Philosophy and Religion), Dr. Shepherd (Sociology)

Associate Professor: Dr. Cohen (Art)

Visiting Assistant Professor: Dr. James Deitrick (Philosophy and Religion)

Instructor: Ms. Winden Fey (Philosophy and Religion)

in-depth knowledge of at least one of these approaches, and will be well-prepared for graduate or professional study.

BACCALAUREATE DEGREE: BACHELOR OF ARTS

The degree of Bachelor of Arts, with a major in religious studies, requires successful completion of 124 hours, including (1) the general education component; (2) degree requirements; (3) major requirements, listed below; and (4) a minor as worked out with the student's minor advisor.

Major in Religious Studies 33 hours

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 methodological approaches to the study of religion and an

1. Core requirements: RELG 2301; RELG 2332 or 2333 or ENGL 3325 (readings: The Bible as Literature); PHIL 3331 or SOC 4300; HIST 3320 or 3321; HIST 3303 or 4387; PHIL 4300 (Senior Seminar in Religious Studies).
2. Fifteen (15) hours of electives from at least two disciplines from the following: ART 2325, 3385; ENGL 4341; HIST 3320, 3321, 3303, 4387; PHIL 3301, 3303, 3331, 3352; RELG 331 23us 23us 1y developing in

PRE-PROFESSIONAL PROGRAMS

Advisor: Dr. Jerome (Health Sciences), 450-5578

REQUIREMENTS

Students pursuing a career in respiratory therapy should complete

Advisor: Dr. Fox (Health Sciences), 450-3194

THE PROFESSION

Dental hygienists perform various oral health procedures on patients, and they educate patients and the public on good oral hygiene. Common clinical services performed are cleaning and polishing teeth, exposing and developing radiographs, applying topical fluoride and sealants, and recording medical and dental 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.

REQUIREMENTS

Students pursuing a career in dental hygiene attend UCA for two years to complete general education and pre-clinical requirements

Advisor: Dr. Ross (Physics and Astronomy), 450-5905

TRANSFER AGREEMENTS

The University of Central Arkansas has a cooperative agreement with Arkansas State University that will lead to the degree of Bachelor of Science in agricultural engineering or the degree of Bachelor of Science in Engineering with professional concentration in civil, electrical, or mechanical engineering from ASU. Under this agreement, a student can complete all general education, mathematics, chemis-

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 (LSAT).

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.

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

Most medical schools require a minimum of three years (90 semes-

The following courses are those offered at UCA which specifically fulfill the requirements for admission to UAMS, although the requirements are fairly typical for most schools of pharmacy. A student who decides on a school other than the University of Arkansas should contact that particular school to find out the pre-professional course requirements, the length of the professional program, and the degree that is received upon graduation.

Requirements change occasionally and, hence, frequent consultation with the advisor is strongly encouraged.

REQUIRED COURSES

Biology (8 hours): BIOL 1400 Biology for General Education and BIOL 2405 Anatomy and Physiology; or BIOL 1440 and 1441 Principles of Biology I and II.

Chemistry (16 hours): CHEM 1450 and 1451 College Chemistry I and II; CHEM 2401 and 3411 Organic Chemistry I and II.

Critical Thinking/Problem Solving (minimum of 6 hours): Choose two of the following eight courses: ACCT 2310 Principles of Accounting I, CHEM 3520 Quantitative Analysis, MATH 1396 Calculus for the Life Sciences, MATH 1591 Calculus I, MATH 2561 Calculus II, MATH 2311 Statistical Methods, PHYS 1420 College Physics 2, PHIL 2310 Introduction to Logic.

Economics (3 hours): ECON 1310 Modern Political Economy.

English/Writing (9 hours): WRTG 1310 Introduction to College Writing and WRTG 1320 Academic Writing and Research and one of the

following: WRTG 3300 Creative Writing, WRTG 3310 Technical Writing, ENGL 2305 World Literature I (or higher literature course), or SPTA 1300 Basic Oral Communication.

Mathematics (5 or 6 hours): MATH 1390 College Algebra and MATH 1392 Trigonometry or MATH 1580 Algebra and Trigonometry or MATH 1591 Calculus I.

Physics (4 hours): PHYS 1410 College Physics 1.

Humanities Electives to bring total to 65 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 to take courses in calculus (MATH 1396 or MATH 1591), technical writing (WRTG 3310), anatomy and physiology (BIOL 2405), logic (PHIL 2310), and Spanish (SPAN 1310 or 1320) and/or sign language (SPTH 2303). Inspect the information above to see where these suggested courses fit into the program.

PRE-VETERINARY MEDICINE

Advisor: Dr. Freiley (Biology), 450-5926

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 admits numerous Arkansas residents each year. A few Arkansas residents also have been admitted each year 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. 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, 4525
Chemistry: CHEM 1450, 1451, 2401, 3411, 4320
Mathematics: MATH 1580; or 1390, 1396
Physics: PHYS 1410, 1420
Speech: SPTA 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 advance permission from the School of Veterinary Medicine at LSU.

OTHER ACADEMIC UNITS

DIVISION OF UNDERGRADUATE STUDIES

Dean, Associate Provost, and Professor: Dr. Sally A. Roden, 450-5074

Professional Staff: Ms. Stone, Ms. Tio

Advisors: Ms. Polite, Ms. Rasnick, Mr. Utle

COMPONENTS

The Division of Undergraduate Studies is designed to assist students to develop and strengthen competencies important for achieving academic success in the university's rigorous academic programs. The Division of Undergraduate Studies provides services in the following areas:

- Academic Support Services
- Professional Academic Advising
- Residential Colleges

Academic support services are offered through the Clustered Learning Program and the Supplemental Instruction Program, where students can receive academic assistance both in the content area and in the improvement of study skills. Professional academic advising assists students in academic planning and in locating resources to meet individual educational needs. The Residential College Program gives students an opportunity to enrich their college experience in living and-Learning communities.

ACADEMIC ADVISORS

Academic advisors offer students advisement related to registration, academic programs, and academic planning. They advise all incoming freshman students, undeclared students, transient students, and undeclared transfer students. For more information phone 450-5149.

THE HONORS COLLEGE

Director and Professor of Philosophy: Dr. Schedler

Interim Director and Professor of Sociology: Dr. R. Scott

Assistant Professor of Interdisciplinary Studies: Dr. Bowman

Instructor of Interdisciplinary Studies and Assistant to the Director: Mr. Melton

PURPOSES

The Honors College recognizes that gifted and talented students have special educational needs. In order to help meet their needs, the Honors College gives high-ability students the opportunity

1. To take a series of specially designed courses.
2. To participate in a peer community of students with similar abilities.
3. To participate in a variety of co-curricular academic experiences.
4. To receive individualized instruction in an Oxford tutorial.
5. To produce an Honors College thesis project and present it before faculty and students.

GENERAL INFORMATION

The Honors Program. The honors program consists of the honors core courses, a multi-course sequence called The Human Search. These courses are for freshmen and sophomores and fulfill general education requirements. Honors core courses are broad in scope, transcend disciplinary boundaries, and are taught by a team of professors from different academic disciplines.

The Honors College. The honors college curriculum consists of a fifteen-hour honors interdisciplinary studies minor. At the center of the curriculum is undergraduate scholarship: the Oxford tutorial, in which a student works one-on-one with a professor and writes and presents an Honors College thesis project. The Honors College is for juniors and seniors invited from those students completing the honors Program.

The Honors Center. The Honors College is much more than a sequence of courses. In order for the educational process to be at the center of the student's life, the Honors College has a physical place where faculty and students gather for good conversation. The Honors Center has seminar rooms, the Forum, a computer laboratory, study rooms, a library, a specially designed presentation room, and faculty and staff offices. Students and faculty come to the Honors Center to study, meet with each other, work on group projects, socialize, and engage in discussion. In addition, speakers, seminars, workshops, High Tables (weekly discussion accompanied by good food), films and videos all provide the occasion to keep the conversation going. The center is a focal point for social and intellectual activity of the Honors College.

Special Events. Each year the Honors College sponsors a series of lecture and performance events for the entire campus and central Arkansas community. Nationally prominent figures are invited to speak and spend time interacting with students and faculty. In addition, weekend retreats and special banquets are held for members of the Honors College community.

GRANTS PROGRAMS

Funds are available for study abroad (Travel Abroad Grants) and research internships (Undergraduate Research Grants for Education). Eligible Honors College scholars prepare grant proposals, and monies are awarded on a competitive basis.

HONORS COLLEGE RESIDENCE HALLS

In addition to special instruction, there are four residence halls for Honors College Scholars: Wingo, Short/Denney, and Baridon. These halls house 350 residents, most in private, single-occupancy rooms. The atmosphere reinforces the learning and friendships developed through the program. Application to the Honors College residence halls is through the Housing Department. Those students who have been accepted into the Honors College at the time of housing assignments will be placed in Honors College residence halls based on space availability.

ADMISSION REQUIREMENTS

The honors program and Honors College limit enrollment. For admission requirements and more information, contact

Director, Honors College
McAlister Hall 306/Box 5024
University of Central Arkansas
Conway, Arkansas 72035-0001
Telephone: (501) 450-3198 or (501) 450-5295
E-mail: honors@mail.uca.edu
Website: <http://www.uca.edu/honors>

THE HONORS PROGRAM (HONC)

Honors Core: The Human Search

1310 HONORS CORE I The Search for Self. A reflexive study of a variety of views on the nature of human beings drawn from many disciplines, different historical periods, and various cultures. Team taught. Emphasis on writing skills and insightful thinking. By consent only. Fall. (Honors Core I fulfills general education requirements for WRTG 1310 or humanities elective.)

1320 HONORS CORE II The Search for Community. A reflexive study of a variety of views on the nature and problems of society drawn from various disciplines and cultures. Team taught. Emphasis on writing skills and insightful thinking. By consent only. Spring. (Honors Core II fulfills general education requirements for WRTG 1320 or behavioral and social sciences elective.)

2310 HONORS CORE III The Diversity of the Search. An interdisciplinary study of a non-Western culture through a critical study of its art, economics, history, geography, religion, or a study of cultural pluralism in some form. Team taught. Emphasis on research skills. By consent only. Fall. (Honors Core III fulfills general education requirements for behavioral and social sciences elective or humanities elective or the third course in the three-course world cultural traditions sequence.)

2320 HONORS CORE IV The Art of the Search. An interdisciplinary study of the arts, including aesthetic theories, art, music, or theater studies, media, film, and human affairs. Team taught. Emphasis on seminar skills. By consent only. Spring. (Honors Core IV fulfills general education requirements for ART 2300 or MUS 2300 or SPTA 2300.)

3115, 3215, 3315 SPECIAL TOPICS Readings and discussions in specific areas of study that are of particular interest to the student. Consent of the Honors College director. On demand.

Fifteen-Hour Minor in Honors Interdisciplinary Studies

3310 HONORS SEMINAR An in-depth study of a selected topic. May be repeated for credit up to six hours. Emphasis on the presentation of seminar papers. Consent of Honors College director. Fall, spring, summer.

3320 HONORS OXFORD TUTORIAL A tutorial course for Honors College scholars. A reading list chosen by the student and his or her tutor provides the foundation for a thesis to be written by the honors candidate. Extensive oral presentations required. May be repeated for credit up to six hours. Consent of Honors College director. Fall, spring, summer.

4310 SENIOR HONORS SEMINAR An in-depth study of a selected topic with a global studies emphasis. Open only to senior Honors College scholars. Emphasis on the presentation of seminar papers and the art of negotiating. Consent of the Honors College director. Fall, spring, summer.

UNIVERSITY COLLEGE

Director: Dr. Cone, 450-3220

University College is open to students who meet the standards for admission as determined by the UCA Admissions Committee. The program of study includes the state-mandated transitional requirements as well as general education courses leading to an Associate of Arts degree in General Studies (AAGS). University College students who complete their transitional course requirements and twelve (12) hours of general education courses at UCA with a cumulative grade point average of 2.00 are eligible for admission to a four-year program of study at UCA. University College students may also complete the AAGS degree before continuing toward a baccalaureate degree.

The UCA schedule contains a section of University College offerings open to any UC-admitted student. The transitional courses are open to all students admitted and enrolled at UCA. All University College students are advised and registered in the Academic Advising Center in Harrin Hall.

For more information about University College and the Associate of Arts degree contact

Dr. Charlotte Cone
University College
Torreyson Library 326
University of Central Arkansas
Conway, AR 72035
Telephone: (501) 450-3220
E-mail: cccone@mail.uca.edu

DIVISION OF CONTINUING EDUCATION

Interim Director: Ms. Bradford, 450-5266

GENERAL INFORMATION

The Division of Continuing Education is the special administrative unit that responds to the university's public service goal. The division's mission is to provide quality lifelong learning opportunities through credit courses, non-credit programs, and support services that address market needs. Our vision, as a team of innovative people dedicated to customer satisfaction, is to unite faculty, state-of-the-art technology, and facilities to deliver comprehensive lifelong learning programs through a world-wide educational network. The Division of Continuing Education offers the following programs:

- Academic credit through on- and off-campus classes and guided study/correspondence courses.
- Non-credit learning opportunities offered through workshops, seminars, and institutes.
- Business and industry assistance through organizational assessment, training programs, seminars, and contract projects.
- Community and state assistance through the Community Development Institute and special projects.



ACTIVITIES OF THE DIVISION OF CONTINUING EDUCATION

Academic Programs: The Division of Continuing Education provides opportunities for academic credit through off-campus courses, some of which are transmitted through distance education, and on-campus credit courses which are grant funded or non-traditional. Guided study/correspondence courses are available for non-resident undergraduate credit.

Community Education Programs: Community education consists of non-credit personal-growth classes and leisure activities. These programs may be delivered through short courses, travel seminars, or media-based learning.

Business/Industry/Government Training: Programs include non-credit management, supervisory, and workplace skills training. Organizational assessment and support for implementing employee involvement and quality management programs are also offered.

Professional Development: Classes and seminars designed to meet the needs of individuals for professional/career development or certification. Continuing Education Units (CEUs) may be awarded within certain criteria.

ROSTER

BOARD OF TRUSTEES

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Mrs. Elaine Goode, Conway, term expires 2002
Mr. Rickey Hicks, Little Rock, term expires 2003
Mr. Dalda F. Womack, Star City, term expires 2004
Mr. Randy Sims, Conway, term expires 2005
Mr. Rush Harding III, Little Rock, term expires 2006
Mr. Kelley L. Erstine, Sheridan, term expires 2007

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J. J. Doyne, 1908–1917
B. W. Torreyson, 1917–1930
H. L. McAlister, 1930–1941
Nolen M. Irby, 1941–1953
Silas D. Snow, 1953–1975
Jefferson D. Farris, Jr., 1975–1986
Winfred L. Thompson, 1988–

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Neil Hattlestad, EdD, *Dean, College of Health and Applied Sciences*
Maurice Lee, PhD, *Dean, College of Liberal Arts*

A

ELTAYEB S. ABUELYAMAN Associate Professor of Computer Science, PhD University of Tucson, MS Oregon State University, BS Khartoum University, Sudan

SANDY ACKERMAN Adjunct Clinical Instructor of Medical Technology, ME University of Arkansas at Little Rock, BS University of Arkansas for Medical Sciences

CATHERINE ACRE Assistant Professor of Occupational Therapy, EdD University of Arkansas at Little Rock, MA Texas Woman's University, BS University of Central Arkansas

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PHILLIP B. ANDERSON Professor of English, PhD Duke University, MA University of Tennessee, BA University of Tennessee

SERGEI V. ANDRONIKOV Assistant Professor of Geography, PhD Dokuchaev Soil Institute, Russian Academy of Sciences, Moscow, MS Moscow State University

ELEANOR ANNIS Assistant Librarian, MLIS University of Western Ontario,

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MARY WHITE

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