



# **UNIVERSITY OF CENTRAL ARKANSAS**

Conway, Arkansas

## **UNDERGRADUATE BULLETIN**

Biennial Catalog Issue  
2000-2002

## **BULLETIN PROVISIONS**

The provisions of this bulletin constitute a revocable contract between the student and the university. The university reserves the right to change provisions or requirements. Students are expected to meet the requirements of the bulletin in effect at the time of initial enrollment. Students may opt for a subsequent bulletin but must meet all of the requirements specified by that bulletin. After initial enrollment, a student who does not re-enroll during any 12-month period must complete the requirements of the bulletin in effect at the time of re-enrollment.

## **NOTICE OF COMPLIANCE**

The University of Central Arkansas, in making decisions regarding employment, student admission, and other functions and operations, adheres to a policy of nondiscrimination and complies with federal regulations and requirements as set forth in Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Title IV of the 1992 Amendments to the Higher Education Reauthorization Act, the Rehabilitation Act of 1973, and the Americans with Disabilities Act. Persons having questions or seeking information regarding the university's compliance with and implementation of the regulations and requirements should contact:

Affirmative Action Officer  
University of Central Arkansas  
201 Donaghey Avenue  
Conway, Arkansas 72035  
(501) 450-3170

Director of Disability Support Services  
Student Center 01A  
UCA P.O. Box 5145  
Conway, AR 72035  
(501) 450-3135

## **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 accredits the teacher education program at the bachelor's, master's, and specialist's degree levels. The master's and baccalaureate degrees in business administration are accredited by AACSB – The International Association for Management Education. The master's and baccalaureate degrees in nursing are accredited by the National League for Nursing and the Commission on Collegiate Nursing Education. The baccalaureate programs in medical technology, radiography, and nuclear medicine technology are accredited in affiliated professional education programs by the Commission on Accreditation of Allied Health Education Programs. The master's degree program in occupational therapy is accredited by the Accreditation Council for Occupational Therapy Education. The master's degree program in speech-language pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. The associate and entry-level master's degree programs in physical therapy are accredited and the entry-level clinical doctorate in physical therapy has been granted interim accreditation by the Commission on Accreditation in Physical Therapy Education. The graduate dietetic internship program is accredited by the Commission on Accreditation for Dietetics Education. The undergraduate didactic program in dietetics is currently granted developmental accreditation status by the Commission on Accreditation for Dietetics Education. The University of Central Arkansas is an accredited institutional member of the National Association of Schools of Art and Design, the National Association of Schools of Music, and the National Association of Schools of Theatre. The master's degree program in school psychology is approved by the National Association of School Psychology. The chemistry program is approved by the Committee on Professional Training of the American Chemical Society. Accreditation documentation is available in the President's Office.

Affiliation with the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools may be verified by contacting the Commission:

North Central Association of Colleges and Schools  
Commission on Institutions of Higher Education  
30 North LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
Telephone: (800) 621-7440 • Fax: (312) 263-7462  
E-mail: info@ncacihe.org

## **UNIVERSITY OF CENTRAL ARKANSAS UNDERGRADUATE BULLETIN, 2000-2002**

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# INFORMATION DIRECTORY

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
Assoc. VP, Financial Services .....	450-3184
Biology .....	450-3146
Bookstore .....	450-3166
Career Services Center .....	450-3134
Cashier Business Office .....	450-3187
Change of Address .....	450-5200
Change of Major .....	450-3125
Channel 6 .....	450-3402
Chemistry .....	450-3152
Computer Science .....	450-3401
Continuing Education .....	450-3118
Correspondence Study .....	450-5274
Counseling Center .....	450-3138
Curriculum & Instruction .....	450-3169
Dean, Business Administration .....	450-3106
Dean, Education .....	450-3175
Dean, Fine Arts & Comm. ....	450-3293
Dean, Graduate School .....	450-3124
Dean, Health & Applied Sciences .....	450-3122
Dean, Liberal Arts .....	450-3167
Dean, Natural Sciences & Math .....	450-3199
Dean, Undergraduate Studies .....	450-5074
Disabled Student Services .....	450-3135
Economics & Finance .....	450-3109
English .....	450-5100
Enrollment Verification .....	450-5200
Family & Consumer Sciences .....	450-5950
Financial Aid .....	450-3140
Foreign Languages .....	450-3168
Fraternities .....	450-3137
Geography/Political Science/Sociology .....	450-3412
Health Sciences .....	450-3194
History .....	450-3158
Honors College .....	450-3198
Housing Office .....	450-3132
ID Cards .....	450-3187
Info Desk/Student Center .....	450-3235
International Programs .....	450-3445
International Student Advisor .....	450-3445
Kinesiology & Phys. Ed. ....	450-3148
KUCA .....	450-5555
Library .....	450-3129
Marketing/Management/Info Systems .....	450-3149
Mathematics .....	450-3147
Military Science/ROTC .....	450-3145
Minority Affairs .....	450-3135
Music .....	450-3163
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Physical Therapy .....	450-3611
Physics & Astronomy .....	450-5900
Police .....	450-3111
Post Office .....	450-3115
President .....	450-3170
Professional Field Services .....	450-3131
Provost .....	450-3126
Psychology/Counseling .....	450-3193
Registrar .....	450-5200
Sororities .....	450-3137
Speech-Language Pathology .....	450-3176
Speech/Theatre/Mass Comm. ....	450-3162
Student Accounts .....	450-5015
Student Activities .....	450-3137
Student Health Services .....	450-3136
Student Government Assoc. ....	450-3195
Student Teaching .....	450-3131
Teacher Ed Certification .....	450-3131
Theatre Box Office .....	450-3165
Transfer Student Admissions .....	450-5200
Undergraduate Studies .....	450-3125
University College .....	450-3220
Veterans Certification .....	450-5200
VP, Administrative & Financial Services .....	450-5005
VP, Institutional Advancement .....	450-3116
VP, Student Services .....	450-3416
VP, University Relations .....	450-3170
Withdrawal, Graduate .....	450-3124
Withdrawal, Undergraduate .....	450-3125
Writing & Rhetoric .....	450-3344

# ORIGINS AND MISSION OF THE UNIVERSITY

## ORIGINS

The University of Central Arkansas (UCA) has served the state and the nation for over nine decades. Established in 1907 by the General Assembly as the Arkansas State Normal School, the institution was charged with the responsibility of training teachers. Instruction began in 1908 with 107 students, a faculty of eight, and a physical plant consisting of one partially completed building. The first diploma granted was the Licentiate of Instruction, followed in 1920 by the establishment of curricula leading to a baccalaureate degree. The terms of the act establishing the school and its location in central Arkansas recognized the state-wide service the institution was expected to promote. The autonomy of its Board of Trustees also gave the institution freedom to expand and diversify academic programs to meet the growing needs of the state. Thus, in 1925, the college was renamed to Arkansas State Teachers College and the university added and broadened liberal arts programs and increased specialized offerings and degrees. In 1955, the college inaugurated its first graduate program. In 1967, the college was renamed to State College of Arkansas to reflect the institution's varied and comprehensive curricula, and, in 1969, the institution established four colleges to provide administration for the growing number of academic programs. The institution became the University of Central Arkansas in 1975 to reflect its status as a modern comprehensive university. Since 1975, the university has added two additional academic colleges, an honors college, and several new undergraduate and graduate degrees, including doctoral programs in physical therapy and school psychology. Today, approximately 9,000 students attend classes taught by a faculty of 350, and thirty-eight major buildings, valued at \$120 million, occupy the 262-acre campus.

The university seeks to preserve the informality and friendliness of a small school. Its programs and traditions guard against impersonal or disrespectful treatment of students. UCA is a community of several thousand very different individuals about whom generalization is difficult. Yet there does prevail a common devotion to learning, to the creative as well as the critical capacity, to intellectual freedom tempered with responsibility, to personal integrity, and to respect for the freedom and integrity of others. These qualities are deeply embedded in the university, having been developed for over nine decades. Finally, the university conducts its affairs among individuals and groups without discrimination regarding race, color, sex, religion, national origin, age, disability, or other factors irrelevant to participation in any program.

## STATEMENT OF MISSION AND PURPOSES

The University of Central Arkansas, a state-wide comprehensive university, seeks to deliver the best undergraduate education in Arkansas as well as excellent graduate programs in selected disciplines. The university offers a variety of undergraduate and graduate programs in the liberal and fine arts, in the basic sciences, and in technical and professional fields in addition to its historical emphasis in the field of education. UCA strives to maintain the highest academic quality and to assure that its curriculum remains current and responsive to the needs of those it serves. The university's mission is expressed in its commitment to the personal, social, and intellectual growth of its students; its support for the advancement of knowledge; and its service to the community as a public institution.

The university implements its mission through its emphasis on certain central purposes:

- To deliver excellent curricula in general education, in degree programs at the undergraduate and graduate levels, and in continuing education.
- To support its programs with personnel of the highest quality and with optimal resources and facilities.
- To create a campus community that supports students in their personal, social, and intellectual growth.
- To enhance interaction and understanding among diverse groups and to cultivate global perspectives.
- To foster learning and the advancement of knowledge through research and other scholarly and creative activities.
- To serve the public in ways appropriate to the mission and resources of the university.

# 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
TOTAL.....	46 semester hours

2. Remedial course grades will not be computed in the cumulative grade point average for purposes of admission to a four-year institution.
3. Courses taken to satisfy AA degree requirements must have a C or better in order to transfer to a four-year institution.
4. Degree and program requirements (catalog rights) for students who transfer from a two-year institution to a four-year institution under this agreement will be determined in the same manner as if their initial enrollment had been at the four-year institution; and
5. Participating institutions will provide all other participating colleges and universities with current copies of catalogs/curricular requirements as they are published.
6. Calculation of overall GPA for purposes of graduation and awarding of hours is left to the discretion of the institution granting the degree or award.

## STATE MINIMUM CORE CURRICULUM

In accordance with Act 98 of 1989, the Arkansas Higher Education Coordinating Board has approved the following core curriculum. Students who successfully complete these courses at UCA may transfer the credit to any state college in Arkansas.

### English/Communications

Six (6) hours required

ENGL 1310	Composition I <i>or</i>
WRTG 1310	Introduction to College Writing <i>or</i>
HONC 1310	Honors Core I
ENGL 1320	Composition II <i>or</i>
WRTG 1320	Academic Writing <i>or</i>
HONC 1320	Honors Core II

### Mathematics

Three (3) hours required

MATH 1360	Math for General Education <i>or</i>
MATH 1390	College Algebra <i>or</i>
A Higher Level Mathematics Course	

### Science

Eight (8) hours required

Four (4) hours from the following:

BIOL 1400	Biology for General Education
BIOL 1440	Principles of Biology I

Four (4) hours from the following:

CHEM 1400	Chemistry in Society
CHEM 1450	College Chemistry I
CHEM 1402	Physiological Chemistry I
PHYS 1400	Physical Science for General Education
PHYS 1401	Descriptive Astronomy
PHYS 1405	Applied Physics
PHYS 1410	College Physics I
PHYS 1441	University Physics I

### Fine Arts/Humanities

Six (6) hours required

Three (3) hours from the following:

ART 2300	Art Appreciation
MUS 2300	Music Appreciation
SPTA 2300	Theatre Appreciation
HONC 2320	Honors Core IV

Three (3) hours from the following:

ENGL 2305	World Literature I
ENGL 2306	World Literature II
ENGL 2370	Introduction to Fiction
ENGL 2380	Introduction to Poetry
ENGL 2390	Introduction to Drama
FLAN 2315	Cultural Traditions
FYFS 1301	First Year Seminar: Studies in Humanities
FYFS 1310	First Year Seminar: Studies in World Cultural Traditions

HONC 1310	Honors Core I
HONC 2310	Honors Core III
PHIL 1301	Philosophy for Living
PHIL 2305	Critical Thinking
PHIL 2325	Contemporary Moral Problems
PHIL 2360	Gender, Race, and Class: Philosophical Issues
RELG 1320	World Religions

### Social Sciences

Twelve (12) hours required

Three (3) hours from the following:

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

Three (3) hours from the following:

HIST 1310	World History I
HIST 1320	World History II

Six (6) hours from the following:

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

## ADMISSION OF INTERNATIONAL STUDENTS

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

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

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

### *Freshman Applicants*

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

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

### *Transfer Applicants*

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

must have a cumulative grade point average of 2.0 or above. For evaluation of university transfer credit, applicants must submit complete course descriptions or syllabi, in English. Transfer applicants should also submit copies of their current I-20, passport, and I-94 card.

4. A minimum Test of English as a Foreign Language (TOEFL) score of 500 on the paper-based test, or 173 on the computer-based test, less than two years old. Scores must be received directly from Educational Testing Service (ETS); UCA's school code is 6012. A TOEFL score is not required of applicants who will complete UCA's Intensive English Program before pursuing an undergraduate degree. Applicants can contact TOEFL, Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151, USA, requesting a bulletin of information.
5. Evidence of sufficient financial support in the form of a certified bank statement from the applicant's financial sponsor proving the availability of a minimum of \$12,900.00 for one full academic year (9 months) of study. **Tuition and fees must be paid in full at the beginning of each semester or summer session.**

Upon acceptance to the university, students will receive a letter of admission to UCA and a form I-20, as well as pre-arrival and orientation information.

## ADMISSION OF STUDENTS WHOSE FIRST LANGUAGE IS NOT ENGLISH

All applicants to UCA whose first language is not English must provide evidence of English language proficiency before beginning regular academic courses at the university. This includes **immigrants, permanent residents, citizens, refugees, and international students**. English language proficiency may be demonstrated by (1) submitting a minimum TOEFL score of 500 on the paper-based test, or 173 on the computer-based test, that is less than two years old **or** (2) completing the advanced level of UCA's Intensive English Program with no individual course grade below a B. Students who do not submit a TOEFL score before the last day of the published extended late registration period at the beginning of each semester or summer session will be required to participate in UCA's Intensive English Program.

# REGISTRATION AND CREDIT

## ORIENTATION, ADVISING, AND REGISTRATION

The academic year beginning in August comprises two semesters, two intersessions, and a summer session.

The university assists students in adjusting to college life. An effort is made to promote self-respect, personal and school pride, and honor so that students may become responsibly self-directing, not only in campus and off-campus experiences, but in later experiences as individuals, professional persons, and citizens.

Several orientation programs are offered to assist freshmen and transfer students. A summer orientation program gives students and parents an opportunity to learn more about UCA, its services and programs, and to advance register for fall semester classes. Immediately prior to the beginning of the fall and the spring semesters, orientation sessions are offered for freshmen and transfer students. Orientation sessions focus on providing students with information to help them succeed at UCA.

The semester schedule of classes contains a detailed outline of registration procedures. All students are expected to register on the dates indicated. Credit is not awarded in any course for which the student is not duly registered. Registration is not complete until all fees have been paid.

Each student is responsible for planning a program of study and for meeting requirements for graduation. Students should become familiar with curricular requirements, course sequences (indicated by course numbering and prerequisites), upper-and lower-division requirements, the unit of credit, and the normal study load limit.

All students receive assistance of a faculty advisor. First-year freshmen and students who have not declared a major will receive advising from the Division of Undergraduate Studies Academic Advising Center in Harrin 100. Declared students in their sophomore year or higher will receive advising from their major advisor within the department in which the major is located. **It is ultimately the responsibility of all students to be informed of all regulations and requirements and to monitor progress toward a successful university experience, including meeting any and all requirements for a degree from UCA.**

## CHANGES IN REGISTRATION/WITHDRAWAL FROM COURSES

The change-of-course procedure requires approval by the student's advisor and the registrar. No addition to a student's schedule may be made after the late registration period. The semester schedule of classes lists dates and outlines procedures for course changes.

During the change-of-course period, no grade will be recorded. If a course is dropped between the change-of-course period and the drop deadline specified in the academic calendar, a grade of Withdrawn (W) will be recorded so long as the course instructor has not already dropped the student for non-attendance. If a student is dropped from a course for non-attendance, a grade of Withdrawn Failing (WF) will be recorded.

If a course is dropped after the deadline specified in the academic calendar, a Withdrawn Failing (WF) will be automatically recorded.

## WITHDRAWAL FROM THE UNIVERSITY

A student may officially withdraw from the university according to the date published in the schedule of classes for that semester. If a student withdraws from the university, a grade of Withdrawn Passing (WP) or Withdrawn Failing (WF) may be recorded at the discretion of the instructor. If a student discontinues attendance of all classes without officially withdrawing from the university, grades of WF for non-attendance may be recorded.

## AUDITING A COURSE

A student may audit a course with the permission of the instructor and the registrar if such enrollment is indicated at the time of registration. Changes from "Credit" to "Audit" must be made within the late registration period. As an auditor the student does not take examinations or receive credit. An auditor must comply with the instructor's attendance requirements. A regular full-time student does not pay an additional fee to audit a course. The part-time student must add the audited course to regular registration in the computation of fees.

## CLASSIFICATION OF STUDENTS

Since all of the undergraduate courses of the university are integral parts of four-year curricula, students are designated as freshmen, sophomores, juniors, and seniors:

<b>Freshman</b>	A student who has less than 30 semester hours credit
<b>Sophomore</b>	A student who has 30 semester hours credit
<b>Junior</b>	A student who has 60 semester hours credit
<b>Senior</b>	A student who has 90 or more semester hours credit

The post-baccalaureate student is one who possesses a baccalaureate degree, is not a graduate student, and is registered in courses for undergraduate credit. A post-baccalaureate student may elect a program of studies beyond the baccalaureate degree but will not be classified as a graduate student and may not enroll for graduate credit.

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 number of semester hours in which a student with less than a B average (3.0) may enroll is eighteen. A student who has an overall GPA of 3.0 or a GPA of 3.0 in the preceding semester may, with the approval of the registrar, schedule a maximum of twenty-one hours for the following semester.

For each term of the summer sessions, four semester hours is the minimum load for classification as a full-time student; seven semester hours is the normal maximum allowable.

Permission to take more than a maximum load requires written approval of the student's advisor, chair, and college dean.

While enrolled for residence credit in the university, a student may carry guided study for non-resident credit, with the approval of the appropriate college dean or registrar. Residence credit is that which is earned through University of Central Arkansas courses, excluding guided study courses.

## THE CREDIT, NO-CREDIT GRADING OPTION

The credit, no-credit grading option is designed to provide the opportunity for a student to explore academic areas that are not included in required areas of study.

A junior or senior student in good standing, i.e., eligible to be enrolled at UCA, may take one elective course each semester (for a maximum of four courses) under the credit, no-credit option. These courses will not be permitted to satisfy general education, degree, or major and minor (graduation) requirements.

The student must declare an intention to the registrar to receive the "credit, no-credit" designation by the close of the late registration period, and may not change to grade status during the term. Passing work will receive credit; failing work, no-credit. In either event, the course will not calculate in the grade point average.

The above regulations do not apply to courses that are graded only on a credit, no-credit basis.

## CREDIT BY EXAMINATION

A student may present no more than 30 hours credit earned through examination toward the associate or baccalaureate degrees.

### *College Level Examination Program*

The College Level Examination Program (CLEP) allows a student to receive university credit and/or satisfy university requirements. The university permits a student to take either the general examinations or specific subject examinations to earn college credit for a maximum of thirty hours of general education courses. No student may use test scores in lieu of courses in the major or minor, except in instances where general education requirements and major or minor requirements overlap.

CLEP credit may be awarded to those students who have met the minimum score requirement set by the university, have not already satisfied the general education requirement, and have not enrolled for the course.

When a student has satisfactorily completed the examination and has earned twelve hours in residence at the university, credit will be recorded and designated CLEP on the student's permanent record. However, the result of CLEP examinations will not be used in computing a student's grade point average. Thirty semester hours is the maximum examination credit allowed. To earn credit in writing, the examination must be taken before enrollment in college. Other examinations must be taken before the end of the semester in which a student is enrolled for the 75th hour. Students should apply directly to the test center where the test is to be taken. A transcript of scores must be sent to the Dean of Undergraduate Studies.

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 DANTES Subject Standardized Tests in the same subjects where CLEP credit is awarded by UCA. Score requirements for DANTES 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
Art	ART 1321 Drawing I	4 on Studio: Drawing
	ART 1321 and 3 hrs. studio art elective	5 on Studio: Drawing
	ART 1310 Design I, 2-D	4 on Studio: General
	ART 1310 and 3 hrs. General studio art elective	5 on Studio: General
	ART 2335 Art History	4 on Art History
	ART 2335 and 3 hrs. Art history elective	5 on Art History
Biology	BIOL 1441 Biology II	4
Chemistry	CHEM 1450 College Chemistry I	3
	CHEM 1450 & 1451 College Chemistry II	4
Computer Science	CSCI 1310 Computer Science I	3 on A
	CSCI 1310 and 3 hr. computer science elective	3 on AB
Economics	ECON 2320 Principles of Macroeconomics	3 on Macroeconomics
	ECON 2321 Principles of Microeconomics	3 on Microeconomics
Foreign Languages	SPAN 2310 Spanish Conversation & Composition I	3 on Spanish Language
	SPAN 2320 Spanish Conversation & Composition II	3 on Spanish Literature
	FREN 2310 French Conversation & Composition I	3 on French Language
	FREN 2320 French Conversation & Composition II	3 on French Literature
	GERM 2310 German Conversation	3 on German Language
History	HIST 1320 World History II	3 on European
	HIST 2302 American Nation II	3 on American
Mathematics	MATH 1591 Calculus I	3 on Cal. AB
	MATH 1591 & 2561 Calculus II	3 on Cal. BC
Music	MUS 1230 Theory I, 1231 Ear Training I, 1232 Theory II, 1233 Ear Training II	3 on Music
	MUS 1340 Introduction to Music Literature	3 on Music Listening & Literature
Physics	PHYS 1410 & 1420 College Physics 1 & 2	4 on Exam B
Political Science	PSCI 1330 US Government & Politics	3
Psychology	PSYC 1300 General Psychology	3
Writing	WRTG 1310 Introduction to College Writing	3
	WRTG 1310 & 1320 Academic Writing	4

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.

## TRANSCRIPTS

A university transcript is a complete and unabridged academic record, without deletions or omissions, prepared for the purpose of communicating information concerning a student. The university prepares and issues two categories of transcripts:

**Official** — includes a statement of the student's status, the signature of an authorized official, and the legal seal of the university. An official transcript is sent directly from the university to an institution, agency, or individual upon receipt of a written request of the student. There is a nominal charge for an official transcript.

**Unofficial** — presents a listing of courses for which the student enrolled. The academic achievement of the student is indicated in terms of a grade for each course. An unofficial transcript is made available to students for their personal use. It does not include an authorized signature or the official seal of the university. An unofficial transcript is not sent to other institutions, agencies, or individuals.

One official transcript of a student's record is furnished without charge upon receipt of a written request. A graduate receives two official transcripts free of charge with the diploma. There is a nominal charge for each additional copy. Transcripts may be released only after all financial obligations to the university are satisfied.

## ATTENDANCE

A student's official program is regarded as his obligation with the institution, full performance of which requires regular and punctual class attendance. Attendance and tardiness are primarily a student-teacher-class relationship. The university has a concern for the fulfillment of such obligations by the student. Absences that indicate negligence about class attendance may lead to cancellation of registration and a grade of WF in the course. In flagrant cases the student may be suspended from the university. Individual instructors may assign a grade of WF for non-attendance to any student, regardless of the student's classification. A student is responsible for completing any missed work. A student is responsible for the dates and places of the required course examinations.

## RETENTION

**Maintenance of Standards.** The university reserves the right to deny further attendance to a student who lacks the personal qualities, professional characteristics, or scholastic attainments essential for success. Such a student desiring to re-enroll will supply the university with evidence that the difficulties have been corrected.

In addition to the completion of prescribed courses, the student must meet established scholarship standards for continuation in the university.

A student will be placed on academic probation whenever the semester grade point average is less than 2.0. A student will be re-

moved from academic probation whenever the semester grade point average equals or exceeds 2.0 and the cumulative grade point average equals or exceeds 2.0.

A student on academic probation who does not achieve a 2.0 semester grade point average and does not meet the minimum cumulative average listed below will be academically suspended. The calculation of hours attempted will include grades A, B, C, D, F, and WF.

Semester Hours Attempted	Minimum Cumulative GPA
1 – 30	1.70
31 – 59	1.85
60 or More	2.00

*A first suspension* will be for one academic semester and the summer session. *A second suspension* will be for one calendar year. *A third suspension* will be academic dismissal, for an indefinite period of time.

**All standards with respect to retention are binding and are not, therefore, subject to appeal.** Credit earned while on academic suspension will not count toward a degree at the university.

## ACADEMIC CLEMENCY

Academic clemency is intended to provide a second chance to the student who, having left college after an unsuccessful experience, grows to appreciate education and, having been out of college for an extended period, seeks admission or readmission. The policy of academic clemency applies to all students meeting the conditions below.

### Eligibility

- An individual must not have been enrolled in any institutions of college or university rank for a period of at least five years (60 months) immediately preceding enrollment or re-enrollment at the University of Central Arkansas.
- An individual must be an undergraduate student seeking the initial undergraduate degree (associate or baccalaureate) from UCA in order to be eligible for academic clemency consideration.

### Process

- Application for academic clemency should be made at the time of conditional admission or readmission to the university. A conditionally admitted student who fails to meet the requirements for the granting of academic clemency will not be eligible to continue at the university.
- Application for academic clemency will be made through the Office of the Registrar. The application will be reviewed and the appropriate decision rendered by the registrar.
- In order for academic clemency to be granted, a minimum 2.0 grade point average and a minimum of 12 semester credit hours must be earned within one calendar year from the date of enrollment or re-enrollment.



## 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 permanent academic record to identify those courses excluded from computation in the cumulative grade point average.
- In regard to financial aid history, state and federal regulations take precedence over the institutional policy of academic clemency.
- In regard to athletic eligibility, all semesters/terms of attendance, including any of granted academic clemency, will be considered in the determination of athletic eligibility certification.
- A declaration and granting of academic clemency may be exercised only once in an individual's academic career, and such declaration and granting is final and irreversible.
- Policies related to academic clemency pertain to the University of Central Arkansas only and might not be honored by other institutions for admission to undergraduate programs, admission to graduate programs, or admission to professional programs.

# RECOGNITION OF ACADEMIC ACHIEVEMENT

**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.

CATEGORY	OVERALL GPA
Summa Cum Laude	4.000–3.900
Magna Cum Laude	3.899–3.800
Cum Laude	3.799–3.700

## UCA SCHOLARS PROGRAMS

The University of Central Arkansas recognizes its responsibility to provide special opportunities for superior students and provides two separate scholars programs—the Departmental Undergraduate Scholars Program and the Honors College.

### *Departmental Undergraduate Scholars Program*

Upon completion of 72 hours (with twelve hours in the major), a student may be invited by the faculty of a department to enter its Undergraduate Scholars Program. To be eligible for the invitation, a student must have at least a 3.0 grade point average overall and in the major. A student must complete the appropriate departmental Undergraduate Scholars course (or the equivalent), and submit written evidence of the research paper, project, performance, or presentation no later than the end of the fifteenth full week of the semester in which the student expects to graduate. Before the end of the third full week of the semester in which the student intends to graduate, the student must submit a notification to complete an undergraduate scholar project form to the Director of Exemplary Studies.

### **Departments offering Undergraduate Scholars Programs:**

Accounting  
Art  
Biology  
Chemistry  
Curriculum and Instruction  
Computer Science  
Economics and Finance  
English

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 the Housing Department. Assignments are based on first-come, first-received housing deposits. 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. See the Honors College section later in this bulletin for more information (p. 170).

**RECOGNITION OF UCA SCHOLARS**

Students completing the Departmental Undergraduate Scholars Program or the Honors College minor in Interdisciplinary Studies will receive special recognition at graduation.

**SCHOLASTIC SOCIETIES**

Students with intellectual and professional interests have founded honorary and scholastic societies, both general and specialized in purpose. Alpha Chi, Alpha Kappa Delta, Gamma Beta Phi, Phi Delta Kappa, Alpha Psi Omega, Phi Alpha Theta, Phi Sigma Tau, Tau Kappa Alpha, Kappa Rho, Delta Psi Kappa, Pi Omega Pi, Sigma Pi Sigma, Sigma Tau Delta, Sigma Theta Tau, Beta Gamma Sigma, Pi Kappa Delta, and Eta Sigma Gamma are representative national organizations.

**GENERAL EDUCATION PROGRAM**

**Director:** Peter J. Mehl

**PURPOSES**

The purpose of the general education program at UCA is

- to enable students to have or to know where to locate the information they need to make informed decisions and hold responsible opinions about their lives and the relationship of their lives to the world in which they live;
- to help students develop intellectual skills, practical skills, and emotional and aesthetic sensitivities—that is, to prepare them to think, to feel, and to act competently in a complex, diverse, and constantly changing world; and
- to help students understand the values inherent in their culture and to be aware of other cultural traditions, values, and beliefs.

In fulfilling these general purposes, the program seeks to prepare students to be lifelong learners with the intellectual and emotional skills—the adaptability—to tackle the great changes they will undoubtedly experience during their adult lives; and to recognize the connectedness of human life and develop a sense of how humanity's diverse pursuits relate to one another.

**GENERAL EDUCATION AREA OBJECTIVES**

Upon completion of the general education program, students will have an introductory comprehension of certain fundamental areas of human understanding and intellectual inquiry; they will have been encouraged to develop a sense of how humanity's diverse pursuits relate to one another. The general education program has ten areas with the following purposes and student objectives/outcomes:

## **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 throughout life, demonstration of the skills necessary to engage in a lifetime of physical activity, and utilization of available health programs;
- to recognize influences of different cultural traditions, values, and beliefs inherent in health.

## **American History and Government**

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

Objectives for students completing the American history and government requirement are

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

## **Humanities**

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

Objectives for students completing the humanities requirement are

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

### **Mathematics**

Mathematics provides an approach to problem solving through logic and reasoning. It is used to identify, analyze, generalize, and communicate quantitative relationships.

Objectives for students completing the mathematics requirement are

- to know the fundamental notation and rules of a mathematical system;
- to be able to recognize problems to which mathematics can be applied;
- to be able to translate problems into mathematical form;
- to be able to construct and interpret visual representations of mathematical relationships;
- to construct logical and valid mathematical arguments;
- to determine mathematical relationships and solutions to problems;
- to clearly communicate mathematical relationships and solutions.

### **Oral Communication**

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

Objectives for students completing the oral communication requirement are

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

### **Natural Sciences**

The goal of the natural sciences is to better understand nature. The natural sciences systematically study natural phenomena. They do so by observing nature; by collecting and analyzing data; by forming, testing, and revising hypotheses; and by developing theories.

Objectives for students completing the natural sciences requirements are

- to understand what the realm of science is, and why science is important to their lives;
- to understand current principles and theories used to explain natural phenomena and to understand the role of theories in science;
- to do science as a process by conducting systematic observation, formulating and testing hypotheses, collecting and evaluating data, recognizing sources of error and uncertainty in experimental methods, and disseminating results;
- to develop an understanding of how human activity affects the natural environment; and
- to be able to make informed judgments about science-related topics and policies.

### **Behavioral and Social Sciences**

The behavioral and social sciences are characterized by their application of both rational and empirical methods to the ways in which individuals, organizations, and societies are influenced by the environment as well as by personal and societal goals.

Objectives for students completing the behavioral and social sciences requirements are

- to be familiar with traditional and contemporary theories used to explain human behavior;
- to understand the empirical bases of the behavioral and social sciences;
- to be able to hypothesize causes and consequences of individual and social behavior;
- to recognize the effect of the environment on individuals and their interactions through social institutions and processes;
- to appreciate the interactions of individuals, institutions, events, space, and ideas in human society.

### **World Cultural Traditions**

The world cultural traditions requirement introduces students to broadly significant elements of the cultural traditions of the world in their richness, diversity, and complexity. Each course used to fulfill this requirement entails comparison between several Western and non-Western cultures.

Objectives for students completing the world cultural traditions requirements are

- to better understand significant social, economic, and political developments in Western and non-Western history;
- to better understand significant cultural developments in Western and non-Western civilization (religion, art, philosophy, language, and literature);
- to be familiar with enduring expressions of human thought by study of some major texts of Western and non-Western cultures; and
- to better understand the interaction of Western and non-Western cultural traditions.

## 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
MATH 1580	Algebra and Trigonometry
MATH 1591	Calculus I

### Oral Communication

3 hours minimum required.

SPTA 1300	Basic Oral Communication
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### Natural Sciences

8 hours minimum required. Both courses must include laboratories.

4 hours minimum required:

BIOL 1400	General Biology
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or, if required by the student's program of study,

BIOL 1440	Principles of Biology I
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and 4 hours minimum required:

CHEM 1400	Chemistry in Society
PHYS 1400	Physical Science for General Education or above
PHYS 1401	Descriptive Astronomy

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

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

### ***Behavioral and Social Sciences***

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

ECON 1310	Modern Political Economy
GEOG 1305	Principles of Geography
PSCI 1330	US Government and Politics <i>or</i>
PSCI 2300	International Relations
PSYC 1300	General Psychology
SOC 1300	Principles of Sociology <i>or</i>
SOC 1302	Anthropology

### ***World Cultural Traditions***

9 hours minimum required.

3 hours minimum required:

HIST 1310	World History I
HIST 1320	World History II

3 hours minimum required:

ENGL 2305	World Literature I
ENGL 2306	World Literature II

3 hours minimum required:

ENGL 2305	World Literature I
ENGL 2306	World Literature II
FYFS 1310	First Year Seminar: Studies in World Cultural Traditions
HIST 1310	World History I
HIST 1320	World History II
RELG 1320	World Religions

Courses may be used only once to satisfy the general education requirements.

## **FIRST-YEAR SEMINARS IN GENERAL EDUCATION**

First-year seminars are general education topics courses. They are 3-credit-hour seminars limited to 20 first-year students and are intended to be reasoning-, writing-, and discussion-intensive courses that fulfill the general education requirement in humanities or world cultural traditions. (They are NOT extended freshman orientation classes.)

Any full-time faculty member (or team of two faculty members) can propose a first-year seminar. The objectives of a first-year seminar are parallel to the objectives of the general education program with an emphasis on the core skills of thinking, writing, and speaking. Accordingly, first-year seminars emphasize increasing knowledge through skills-based instruction and active student involvement.

A student cannot take more than one first-year seminar. No more than three seminars from any one general education area will be offered during a semester. First-year seminars do not count for major credit, unless allowed by the department. Students taking first-year seminars should be aware that these seminars may not meet requirements for certain professional degree programs. Consult your advisor.

**FYFS 1301 First-Year Seminar: Studies in Humanities** Fulfills the 3 hour requirement in humanities

**FYFS 1310 First-Year Seminar: Studies in World Cultural Traditions** Fulfills the last 3 hours of the 9 hour requirement in world cultural traditions

Each year new specific first-year seminars will be developed and offered under the above topic headings. Previous first-year seminars have included the following courses:

**FYFS: Studies in Humanities:** Social Justice in a Diverse Society

**FYFS: Studies in Humanities:** American Movies/American Mythology

**FYFS: Studies in World Cultural Traditions:** Cultural Identities of the French-Speaking World

**FYFS: Studies in World Cultural Traditions:** The World Comes to "America"

For more information contact the Director of General Education.

# DEGREE REQUIREMENTS

## ASSOCIATE DEGREES

The University of Central Arkansas offers the Associate of Arts and Associate of Applied Sciences degrees.

The minimum requirement for each degree is 62 semester hours of unduplicated credit with at least 30 hours earned above the freshman (1000) level. At least 24 of the last 30 hours must be earned in residence at the university.

### ***General Education Requirements for the Associate of Applied Science Degree***

A minimum of 20-21 hours of general education courses is required for the Associate of Applied Science degree.

Specific general education requirements are: American History or US Government (3 hours), WRTG 1310 (3 hours), WRTG 1320 (3 hours); MATH 1360 or Science (3–4 hours); Health and Physical Education (3 hours).

Six hours are to be chosen from general education courses (see p. 18) from departments other than those departments in which courses have been taken to satisfy the foregoing requirements. Since some programs may require work beyond these general education requirements, a student should consult the departmental section of this catalog.

No more than 50 percent of general education hours may be earned by CLEP credit.

### ***General Education Requirements for the Associate of Arts***

Completion of the general education program (a minimum of 47 hours) is required for the Associate of Arts in General Studies degree.

## BACCALAUREATE DEGREES

The University of Central Arkansas offers six baccalaureate degrees: Bachelor of Arts, Bachelor of Business Administration, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Nursing, Bachelor of Science in Education.

### ***General Degree Requirements***

#### **Total Credit Requirements**

To be eligible for graduation with a baccalaureate degree, a student must file a program of study approved by the major and minor advisors that contains at least 124 semester hours of unduplicated credit

(40 hours must be upper-division), or more if the curriculum requires it. A grade point average of 2.0 or better is required in each of the major and minor fields and cumulatively. For purposes of grade point calculation, all course work attempted in the major or minor field will be included in determining the major or minor grade point average. A transfer student must satisfy all these grade-point requirements on work taken at this university. Consult the departmental section of this catalog for specific degree requirements.

#### **Major and Minor**

A student must select a major and at least one minor field, subject to modifications noted for specific programs. Any course that is used to meet the requirements of a major may not be used also to meet minor requirement. Departmental faculty of the student's declared minor and major are advisors. Changes made to adjust the student's program within the scope of the departmental major or minor requirements need only the approval of the department chair. Adjustments in the student's program beyond the scope of departmental requirements require the approval of the Adjustments and Credentials Committee. Major and minor requirements are set forth in the departmental sections of this catalog.

Many students, especially entering freshmen, may not have selected major and minor fields at the time of registration. Under these circumstances, students are assigned to general advisors. Such students will follow a general program of liberal studies until the major is determined.

#### **Senior College Requirement**

The credit offered for graduation should include at least forty semester hours of upper-division level (3000 and 4000) courses. Credit offered for graduation should include at least 12 semester hours of upper-division work in the major field and three hours of upper-division work in the minor field, in residence at the university.

Graduates of accredited, specialized, or professional health science programs, who possess a license in the field and who have had the equivalent of 40 hours of upper-division work will plan a program with the department involved. The plan should then be approved by the department chair and the college dean.

#### **Electives**

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

**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**

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

**Commencement**

The university holds commencement ceremonies at the end of the spring semester in May, at the end of the summer session in August, and at the end of the fall semester in December. Undergraduate students apply for graduation in the Office of the Registrar. All students pay the graduation fee to the Business Office. Each semester the schedule of classes lists the deadline date by which the application for graduation in that term must be made.

Only students completing degree requirements are afforded the opportunity to attend the commencement ceremony. If attendance is not possible, students should notify the Office of the Registrar in writing, requesting that the degree be awarded in absentia.

**Special Degree Requirements**

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

**Bachelor of Arts**

In addition to the other requirements for graduation, the Bachelor of Arts degree requires completion of three hours in a foreign language on the 2000-level or above. A student with no previous experience with a foreign language normally will enroll in 1310, 1320, and 2300 or 2310.

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

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

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

**Bachelor of Business Administration**

In addition to the other requirements for graduation, the student who plans to earn the Bachelor of Business Administration degree must complete the requirements in business foundation and core courses as specified in the College of Business Administration section.

**Bachelor of Fine Arts**

The requirements for the Bachelor of Fine Arts degree are specified in the Department of Art section.

**Bachelor of Music**

The requirements for the Bachelor of Music degree are specified in the Department of Music section.

**Bachelor of Science**

In addition to other requirements for graduation and the general education requirements in mathematics and science, the Bachelor of Science degree requires completion of one year of mathematics (excluding UNIV 1340) or a laboratory science, (e.g., 2 courses in biol-



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***

Bowling classes are held at a commercial establishment; therefore, a participation fee based on current prices will be charged.

### ***Transcript Fee***

There is no charge for the first official academic record transcript issued to a student. A graduate receives two official transcripts free of charge with the diploma. A nominal fee is charged for each additional copy. Official academic record transcripts may be released only after all financial obligations to the university have been satisfied.

### ***Breakage Charges***

It is a policy of the university to charge all students a breakage fee for materials, equipment, furniture, or any other property of the university, damaged over and above ordinary wear and tear.

### ***Graduation Fees***

Each candidate for the associate, baccalaureate, master, and specialist degree pays an appropriate graduation fee to the Student Accounts Office at the time of application for graduation.

### ***Dining Services***

University dining services assure students a healthful and balanced diet at an economical cost. Students are required to have a meal plan and may choose from a variety of meal plan options at the beginning of each semester. That selection may not be changed after the first week of classes. Off-campus students have the option of purchasing a commuter meal plan from the dining services office located in the back of the cafeteria. Students requiring a special diet should bring a doctor's order and recommended diet to the Director of Food Services.

### ***Housing Costs***

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

## **FINANCIAL AID**

Financial aid, simply defined, is money that helps students pay for their educational costs. Aid may be in the form of loans, grants, scholarships, employment opportunities, or a combination of all of these. The Student Financial Aid Office is primarily responsible for the processing of federal Title IV aid and coordinating federal aid with other funds, such as scholarships. Title IV aid includes Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Federal College Work Study, Federal Perkins Loans and the William D. Ford Federal Direct Loans. Other scholarships and grants are awarded by various departments and agencies on and off campus. The Student Financial Aid Office is a good resource for questions concerning these other types of aid.

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

Application forms may be obtained from the Student Financial Aid Office located in Bernard Hall, Suite 202. Student Financial Aid Office personnel are available to answer questions and to assist students with the application process.

### ***Grants***

#### **Federal Pell Grants**

This is the basic grant available to undergraduate students who have demonstrated an exceptional financial need on the FAFSA and have not earned a bachelor's or professional degree. Funding comes from the federal government.

#### **Federal Supplemental Educational Opportunity Grant (SEOG)**

SEOG grants are intended, as the name implies, to supplement other aid. These grants are federally funded with each school receiving a fixed amount each year. Funds are awarded to a limited number of undergraduate students with preference being given to Pell recipients demonstrating exceptional financial need.

#### **Arkansas Student Assistance Grants (ASAG)**

These grants are administered by the state of Arkansas. Awards were \$600 for the 99/2000 academic year and are based on financial need. It is anticipated that funding will be about the same for the 2000/2001 academic year. Nonresidents should contact their state for information concerning state grant funds.

### ***Loans***

#### **Federal Perkins Loans**

Federal Perkins Loans are long-term, low interest (5 percent) loans

from the federal government administered through our school. Repayment and interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment. At the end of the grace period, borrowers must begin repaying the loan.

#### **William D. Ford Federal Direct Loans**

The Federal Direct Loan programs provide low interest loans to students who are attending UCA at least half-time. The federal government will provide the loan capital, and the school will execute the tasks previously performed by lenders. Lenders do not participate in this program.

#### **Federal Direct PLUS Loan (Parent Loans to Undergraduate Students)**

Federal Direct PLUS loans are not based on the income of the family. These loans allow credit-worthy parents of undergraduate students to borrow up to the cost of education minus other aid.

#### ***Campus Employment***

UCA offers two work programs on campus. One is need-based Federal College Work Study; the other is non-need-based UCA Employment. Both programs require students to provide documentation of their eligibility to work including a copy of their Social Security card.

With the exception of a student qualifying for College Work Study, both work programs have the same hiring process and require the same paperwork for payroll.

#### ***Scholarships***

A limited number of scholarships are awarded to deserving and talented students. Academic, ROTC, band, orchestra, choral music, art, theatre, forensics, mass communication, honors, and athletic scholarships are available. Contact the appropriate office or department for application material.

#### ***Veterans Benefits***

Financial aid is available through various veterans' programs. The Cold War Benefits, War Orphans Educational Law, and the Children of Disabled Veterans are some of the programs that aid those who qualify. Since much of this is technical information, it is suggested that an individual applying for aid from Veterans Administration programs contact the Regional Office of the United States Department of Veterans Affairs. The Office of the Registrar provides enrollment certification information and application forms. However, it does not provide Veterans Administration counseling or advising.

## STUDENT RESOURCES AND SERVICES

### STUDENT SERVICES

The mission of the Division of Student Services is to promote the personal, social, and cultural development of each student and to support the entire university community in providing a stimulating learning environment. To achieve this mission, the Division of Student Services

1. Provides essential services and facilities,
2. Assesses the needs of students and evaluates the effectiveness of programs,
3. Integrates activities from outside the classroom with academic instruction,
4. Expands opportunities for students to gain an appreciation of diverse cultures,
5. Offers leadership training and opportunities to engage in leadership,
6. Provides social and recreational activities, and
7. Promotes personal responsibility and healthy lifestyle choices.

#### ***Campus Post Office***

The University Campus Post Office is located on the first floor of the Student Center. All students living on campus are assigned a post office box, where they receive their mail. The Campus Post Office

offers regular postal services including stamps, express mail, international mail, and package service. Hours of operation are from 8:00 am to 3:30 pm. For more information call 450-3115.

#### ***Career Services***

The Career Services Center, located at 314 Bernard Hall, provides services to assist students in determining career and educational choices. Through both group and individual counseling, the center tries to help students better understand themselves, their interests, and abilities.

The Career Services Center provides information on careers, current job trends, colleges, and graduate schools. The center maintains a library of books on interview preparation and job-hunting techniques, literature on specific companies and government agencies, and literature on any career. Career-oriented programs include seminars on interview preparation, careers for women, career opportunities for minorities, and job-hunting techniques. The center makes use of a computerized software program called Discover to help students explore their interests and abilities, and match them with various careers.

Placement services are provided for students and alumni to help them find full-time, part-time, temporary, and summer employment in busi-

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 located on the third floor of Torreyson Library.

University faculty interested in developing study abroad opportunities or exchanges can obtain assistance from the international programs staff with budgets, cost projections, exchange agreements, logistical arrangements, travel insurance, and other matters. Faculty should confer with department chairs and deans for clearance on all academic matters related to proposed study abroad programs.

UCA is a member of the Council for International Educational Exchange and the Institute of International Education. Both of these organizations provide significant support and resources for institutions and for students wishing to study abroad.

### **Intramural Sports and Recreation**

Not everyone can be a college athlete, but all can participate in intramural sports at UCA. The program is designed to provide an opportunity for every student, faculty, and staff member to participate in organized recreational sports competition. A tradition on the UCA campus, intramural programs are conducted for men and women, while some are co-ed. Activities include flag football, tennis, cross country, softball, swimming, bowling, basketball, volleyball, racquetball, table tennis, badminton, horseshoes, and soccer. These activities are governed by the Intramural Council made up of men and women representatives from each team.

The Office of Recreation provides recreational opportunities that aid in the sociological, psychological, and physiological development of university students, faculty, and staff. An indoor pool, softball complex, soccer, informal recreation, racquetball, badminton, table tennis, walleyball, aquatic programs, basketball, and sport clubs are just a few of the recreational opportunities available through this office. For more information, stop by the New Recreation Center located on the west side of campus (off of Farris Road), or call 450-5712.

### **KCON and KUCA Radio Stations**

UCA has two campus radio stations. KCON, located in 01A of the Student Center is a student-owned and -operated station playing the lat-

est in contemporary rock hits. KUCA, located in 21D Main Hall (to be relocated to the new mass communications building when completed), comes under the Department of Speech, Theatre, and Mass Communication. Its format is primarily world news and classical and folk music. Both stations offer students broadcasting opportunities. For more information contact KCON at 450-3326 and KUCA at 450-5555.

### **Leadership Programs**

The university offers various leadership development workshops throughout the academic year. Guest speakers from around the country, as well as experts on the UCA campus, speak on important topics to assist students in developing their leadership skills. UCA annually sponsors Leadership Academy and Leadership Institute, an intense 24-hour leadership retreat for student organization leaders. Helpful information including videotapes, pamphlets, and articles are available to student leaders in the Activity Center, located on 2nd floor of the Student Center. For more information call 450-3137.

### **Minority Services**

The Office of Minority Services is available to provide resources and support services for UCA students. These services may include cultural programming, academic and interpersonal skills development, opportunities for leadership, mentoring, and diversity training. The office is located in the Student Center Basement, Room 01A. For more information, please visit the office or call 450-3135.

### **Student Center**

The Student Center provides a variety of services and conveniences to the university community. The Student Center houses the UCA bookstore, post office, and an information desk. Additional services available in the Student Center include automatic bank tellers, a bulletin board, video game room, and public and campus telephones. Food services available in the Student Center include Grill Works, Gretel's, Pizza Hut, Corner Deli, and Chick-Fil-A, all located in the Food Court, and vending machines throughout the building. A coffee shop, The Java Joint, featuring Starbuck's coffee and frozen yogurt, is located adjacent to the Food Court.

### **Student Health Services**

The Dorothy A. Long Student Health Services, located in the basement of Bernard Hall, is under the direction of an Advanced Practice Nurse Practitioner and is staffed with registered nurses. Services provided include care for minor illnesses and injuries and basic laboratory. Health-related pamphlets, video tapes, and models are also provided, including CPR certification. The office hours are Monday through Friday 8:00 am to 4:30 pm when the university is open. After-hours health care is available from area health care providers. Emergency care is provided by the Conway EMS and is obtained by calling 911.

Arkansas state law Act 141 requires university and college students to provide proof of immunity to measles (rubeola) and German measles (rubella). Student Health Services maintains student immunization records and monitors all enrolled students for compliance to this law.

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 campus life. Greek organizations provide social, recreational, service, and leadership opportunities for UCA students. UCA Greek organizations come under one of three governing bodies: Panhellenic Council, Interfraternity Council, and National Pan-Hellenic Council. The Greek Services Office is located in 207 Student Center. For more information call 450-3137.

**Panhellenic Council (NPC).** The Panhellenic Council is a governing body composed of two delegates from each of the National Panhellenic Conference sororities on campus. Panhellenic meets weekly to discuss issues of mutual concern. Panhellenic also coordi-

nates sorority rush and plans major recruitment, philanthropic, social, and educational programs for the sorority community. NPC groups recognized at UCA include Alpha Sigma Alpha, Alpha Sigma Tau, Delta Zeta, Sigma Kappa, and Sigma Sigma Sigma.

**Interfraternity Council (IFC).** The IFC is a governing body composed of two representatives from each of the National Interfraternity Conference fraternities on campus. The IFC meets weekly to discuss issues of mutual concern. The IFC coordinates fraternity rush and seeks to develop policies and plan activities to unite the fraternity community and enhance the social and educational experiences of members. IFC groups recognized at UCA include Alpha Kappa Lambda, Pi Kappa Alpha, Sigma Nu, and Sigma Phi Epsilon.

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

#### **Residence Hall Life**

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

#### **Student Publications**

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

The *Echo* is a student-run, independent newspaper for the campus community. The newspaper is supported by student fees although most of its costs are borne by advertising revenues. It presents a weekly picture of university life and issues, through news, editorials, columns, photos and feature stories. The staff members are students from all areas of campus, and most have an interest in journal-

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
- Student Nurses Association
- Tau Beta Sigma
- UCA Marketing Association
- Writer's Block

### Honorary Organizations

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

- Alpha Sigma Lambda
- Gamma Beta Phi
- Honors Center Society
- Kappa Delta Pi
- Kappa Psi
- Tau Beta Sigma

### Activity/Service Organizations

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

- Alpha Phi Omega
- Black Graduate Student Organization
- Black Men United
- Circle K International
- College Republicans
- Griot Society
- Habitat for Humanity-Hughes Hall Chapter
- Humane Society in Faulkner Co., State Hall Chapter
- Leadership Council
- Malaysian Student Association
- PRISM
- Residence Hall Councils

- Student Activities Board
- SPBC
- Student Government Association
- UCA Wellness Club

### Religious Organizations

Several religious organizations are active on the UCA campus:

- Association of Baptist Students
- Association of Muslim Students
- Baptist Student Union
- Catholic Campus Ministry
- Chi Alpha Christian Fellowship
- Church of Christ Student Union
- COGIC Club
- Missionary Baptist Student Fellowship
- Student Mobilization (TNT)

## HOUSING

The university's residence halls provide students a convenient and comfortable place to live and study.

### *Freshman Residency Requirement*

Freshmen are required to live on campus their first academic year, unless space is not available. Freshmen may petition the housing office to live off campus if they meet one of the following criteria: (1) twenty-one years of age; (2) married; (3) currently enrolled in less than 12 semester hours of credit; (4) completed 21 hours of credit; (5) living with parents or legal guardian and commuting to campus; (6) living with grandparent, married brother, sister, aunt, or uncle, and commuting to campus; (7) have lived in a residence hall at another campus for two or more semesters. Freshmen may petition the Housing Exemption Committee to be released from the residency requirement. International freshmen are required to reside on campus their first calendar year at UCA; approval to move off campus must be granted by the Director of International Programs prior to any such action.

### *Housing Reservations*

Rooms in university residence facilities should be reserved in advance. To reserve a room, students must send a housing application and a deposit of \$100 to the Housing Office. The deposit will be fully refunded if the student decides not to occupy campus housing and notifies the Housing Office in writing by July 1, for contracts beginning the fall semester, or December 1, for contracts beginning the spring semester. After these dates and up to the day the residence halls open, students notifying the university in writing that they do not intend to occupy campus housing will receive a 50 percent refund of the deposit. Cancellations received after the residence halls open will result in forfeiture of the entire deposit and the buy-out clause of the contract will be in effect. The housing deposit will be held by the university to assure compliance with the terms of the contract and will be refunded, less any damage assessed, provided the student officially checks out from a residence hall at the end of the academic year. If a student leaves the residence hall prior to the end of the academic year, the student forfeits the \$100 deposit.



## **Residence Hall Regulations**

A student living in a residence hall agrees to comply with the existing rules and regulations governing student conduct. These rules and regulations may be changed at the discretion of university officials. All students living in a residence hall will be required to sign a residence hall lease and will be responsible for abiding by the terms of that lease.

Specific rules and regulations about university housing and areas of student conduct are provided in the *Student Handbook*. Copies of the handbook are available at the office of Dean of Students, 108 Bernard Hall.

## **UNIVERSITY TESTING SERVICES**

University Testing Services provides registration materials for and coordinates administration of national standardized exams includ-

ing AAGE/CAAP (the "Rising Junior Test"), ACT, AHPAT, CLEP, CPT, GRE, LSAT, MCAT, MFAT, NTE, and PPST. Testing Services does not provide preparation materials for the exams.

## **ALUMNI ASSOCIATION**

All former students of the university are members of the Alumni Association. The Board of Directors of the Alumni Association plans the yearly schedule of events to which all former students and their guests are invited. Graduating seniors are inducted into the Alumni Association as a part of the commencement ceremony.

The *Alumni Contact*, a quarterly publication, is mailed to all alumni. This newsletter provides information on activities of the university, the faculty and alumni. The association strives to establish and continue friendships and contacts, both social and professional, among its members and between alumni and the university.

# **STANDARDS OF STUDENT CONDUCT**

Students of the University of Central Arkansas are expected to obey the laws of the land, the state of Arkansas, the regulations of the university, and conform to the accepted customs of civilized society in their conduct.

## **PURPOSE/GOALS**

The UCA student judicial or conduct system has three primary purposes or goals: to change or redirect student behavior, protect the university environment, and protect the rights of students involved in the disciplinary process.

More specifically, the university endeavors to change student behavior that is considered unacceptable in the university community. To meet this goal, the university makes extensive use of student judicial boards and educational sanctions so that students are judged and provided feedback by their peers and provided with alternatives to inappropriate behavior.

The university strives to protect the university environment against acts of violence, destruction, and vandalism and to provide a quality living and learning environment, one that is safe, secure, and conducive to academic pursuits. Therefore, it may be necessary on occasion to remove students from the university community when the behavior is severe.

Finally, the university seeks to protect the rights of students involved in the disciplinary process by providing specific due process procedures, including appeals, to ensure fair and just hearings.

## **DELINEATION OF RESPONSIBILITIES**

The authority to establish and enforce regulations of the university is vested in the Board of Trustees. The responsibility to initiate, implement, and supervise the disciplinary process for students is delegated to the President who in turn has designated the Vice President for Student Services as the person to conduct the non-academic disciplinary proceedings of the university. The Vice President for Student Services and the student services staff shall be responsible to the President of the university for disposal of all cases.

## **INTERPRETATION OF STANDARDS OF STUDENT CONDUCT**

The University's Standards of Student Conduct are set forth in writing in order to give students general notice of non-academic prohibited conduct. The standards should be read broadly and are not designed to define non-academic misconduct in exhaustive terms.

## **INHERENT AUTHORITY**

The university reserves the right to take necessary and appropriate action for on- or off-campus behaviors, to protect the safety and well-being of the campus community. Such action may include but is not limited to the immediate removal of a student from the campus premises. The authority for such decisions rests with the Vice President for Student Services, or designee.

Specific university regulations related to student conduct can be found in the *UCA Student Handbook & Daily Planner*, distributed to students at the beginning of the academic year. The Office of Dean of Students, located in 108 Bernard Hall, can be contacted regarding specific questions. For more information call 450-3416.

# SEXUAL HARASSMENT POLICY

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 employees is prohibited under Section 703 of Title VII of the Civil Rights Act of 1964, and sexual harassment of students may constitute discrimination under Title IX of the Education Amendments of 1972.

The university considers sexual harassment a very serious issue and shall subject the offender to dismissal or other sanctions following the university's investigation and substantiation of the complaint and compliance with due process requirements.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors or other verbal or physical conduct of a sexual nature when:

1. submission to such conduct is either explicitly or implicitly made a condition of an individual's employment with the university or a factor in the educational program of a student;
2. submission to or rejection of such conduct by an individual is used as the basis for an employment or academic decision affecting such individual;
3. such conduct has the purpose or effect of unreasonably interfering with an individual's right to achieve an educational objective or to work in an environment free of intimidation, hostility or threats stemming from acts or language of a sexual nature.

NOTE: Other forms of harassment based upon race, religion, national origin, sex, or age may have the same impact as sexual harassment. In the absence of other policies addressing these specific issues, the university encourages the use of the steps and procedures in this policy in reporting other types of harassment and will generally conduct investigations of those complaints in the same manner.

Although sexual harassment most frequently occurs when there is an authority differential between the persons involved (e.g. faculty member and student, supervisor and staff member), it may also occur between persons of the same status (e.g. faculty and faculty, student and student, staff and staff). Both men and women may be victims of sexual harassment, and sexual harassment may occur between individuals of the same gender.

Because of the unique situations existing between students, faculty, supervisors, and staff, relationships in the workplace and on campus should at all times remain professional. In particular, due to the professional power differential between faculty and students, faculty are encouraged to remain professional in all relationships with students.

Sexual harassment may create a hostile, abusive, demeaning, offensive or intimidating environment. It may be manifested by verbal and/

or physical actions, including gestures and other symbolic conduct. Sexual harassment is not always obvious and overt; it can also be subtle and covert. A person who consents to sexual advances may nevertheless be a victim of sexual harassment if those sexual advances were unwelcome. Previously welcomed advances may become unwelcome. Examples of sexual harassment may include, but are not limited to, the following:

- non-sexual slurs about one's gender;
- contrived work or study assignments and assigning more onerous or unpleasant tasks predominately to employees or students of one gender;
- repeated unwanted touching, patting, or pinching;
- repeated inappropriate social invitations or requests for sexual favors;
- repeated unwanted discussions of sexual matters;
- use of sexual jokes, stories, analogies, or images that are not related to the subject of the class or work situation;
- touching, fondling, or deliberate brushing against another person;
- ogling, leering, or prolonged stares at another's body;
- display or use of sexual graffiti or sexually explicit pictures or objects;
- sexually suggestive jokes, comments, e-mails, or other written or oral communications.

Individuals who are aware of or have experienced an incident of sexual harassment should promptly report the matter to one of the university officials designated to receive these complaints. No person shall be subject to restraints, interference or reprisal for action taken in good faith to report or to seek advice in matters of sexual harassment.

In the course of a complaint investigation the university will attempt to maintain confidentiality for all parties involved. However, there can be no guarantee of confidentiality and anonymity based upon the course and scope of the complaint investigation.

A grievant whose complaint is found to be both false and to have been made with malicious intent will be subject to disciplinary action which may include, but is not limited to, demotion, transfer, suspension, expulsion, or termination of employment.

## PROCEDURES FOR SEXUAL HARASSMENT CLAIMS

Employees or students of the university who believe they have been subjected to sexual harassment are encouraged to use the following procedures to resolve their complaint.

The university will make every effort to adhere to the prescribed time frames of the informal and formal resolution processes. However, in

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.

# CAMPUS SECURITY AND TRAFFIC REGULATIONS

## UNIVERSITY POLICE (UCAPD)

The UCAPD is the jurisdictional police agency for the University of Central Arkansas and is charged with the enforcement of all state and local laws and university regulations. University police officers are law enforcement officers of the State of Arkansas and are professionally trained and certified by the Arkansas Commission on Law Enforcement Standards and Training. The department employs 22 full-time police officers who have full investigative and arrest authority on the campus and contiguous streets and highways pursuant to ACA 25-17-305. The department's 24-hour 911 Communications Center and the Parking and Traffic Services Office employ additional support personnel who provide public safety services to the academic community.

The UCAPD is committed to providing quality law enforcement and public safety services to students, faculty, staff, and visitors. The department maintains and promotes respect for the individual rights and dignity of all persons and is dedicated to excellence in all of the services that are offered on a year-round basis. University police are trained to understand the needs of students, faculty, and staff. Police officers, equipped with two-way radios, patrol the campus by vehicle, foot, and bicycle. Preventative patrols are also provided by campus service officers who are student aids and provide certain security functions.

Arkansas law permits university police officers to stop individuals suspected of criminal activity and question their identity, business, and destination. In addition, university police may make arrests or issue a summons for traffic or criminal violations which are referred to the city or county prosecutor. All members of the campus community are encouraged to cooperate fully with police personnel for the safety and convenience of everyone involved. Resistance to detention or arrest may result in a more serious charge.

The UCAPD employs the philosophy of community policing within its jurisdiction. This philosophy is based upon the concept that police officers and the campus community as a whole can work together in creative ways to maintain the excellent record of safety on campus and to develop methods to prevent crime. The primary focus of community policing is to foster positive interactions between the police, students, and staff. Comments or suggestions are always welcome by contacting UCAPD at 450-3111.

## HOW TO SUMMON ASSISTANCE

The UCAPD is located on campus between State and Hughes Hall. Persons needing EMERGENCY assistance at any time may call 8911 from campus office telephones or 911 from residence hall telephones. General assistance can be obtained by calling 450-3111. Assistance can also be summoned by pushing the call button on any blue light

emergency telephone located throughout the campus. The dispatcher instantly knows the location of the caller and will ask what type of assistance is needed. The UCAPD lobby is open 24-hours a day. The on-duty dispatcher is available to assist at the lobby window. A local access telephone and a library of free crime prevention, safety, and health brochures are also available in the lobby.

## ANNUAL CAMPUS SECURITY REPORT

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act requires that institutions of higher education publicly disclose three years of campus crime statistics and basic security policies. This information is published annually by the University of Central Arkansas and is available in the UCA *Student Handbook*, in the publication *Safety, Security, and Health* available at the offices of the UCA Police Department and the Human Resources Department, and by accessing the Police Department web site at <http://www.uca.edu/ucapd> or the Division of Student Services web site at <http://www.uca.edu/divisions/student/handbook>. This information is also available upon request from the UCA Police Department at (501) 450-3111.

## OFFICE OF PARKING AND TRAFFIC SERVICES

Students may operate and park automobiles on the UCA campus in accordance with the University's Parking and Traffic Regulations once they have obtained a student parking permit. Detailed copies of these regulations are available at the University Police Department's Office of Parking and Traffic Services and at the time of purchase of a parking permit.

A vehicle parked on campus must display a current UCA parking permit and must be parked in accordance with regulations. The UCAPD maintains the Motorist Assistance Program; motorists who need assistance because of a disabled vehicle or who are locked out of their vehicle are encouraged to call 450-3111.

Vehicles not displaying a proper parking permit and those found parked in violation of regulations may be cited or towed and impounded. Violators must pay all citation fines and tow, impound, and storage charges. A traffic or parking citation or any other communication from a university police officer is an official university notice. The recipient who does not respond to such a communication is subject to disciplinary action.

Motorcycles and motorbikes must be parked in areas designated for motorcycle parking. Skateboarding or rollerblading is not allowed near buildings or when such activity creates a safety hazard.

The University Police Parking and Traffic Services Office is open 8:00 am–4:00 pm, Monday through Friday.

# COLLEGES, DEPARTMENTS, AND PROGRAMS

# COLLEGE OF BUSINESS ADMINISTRATION

**Dean and Professor:** Dr. Joseph Horton, 450-3106  
**Associate Dean and Associate Professor:** Dr. Ira Saltz, 450-3411

## MISSION AND VISION

The mission of the college is to provide high-quality education for aspiring business leaders and to serve the business community. The vision of the college is to be recognized as the premier undergraduate business program in the state of Arkansas and as the provider of a distinctive, high-quality MBA program.

- The college's primary activity is offering high-quality undergraduate education. It provides a distinctive, high-quality MBA program as a service to the business community and in furtherance of the university mission of offering graduate education in selected areas of particular strength.
- The college especially values applied research and instructional development that provide support for the scholarship of teaching and enhance the professional development of faculty and staff.
- The college encourages continuous improvement and innovation in curriculum, teaching, and intellectual contributions.
- The college provides professional service to the university and community to support its teaching and intellectual-contribution objectives.
- The college provides educational opportunities to international students to further its commitment to globalization and support for the university's objectives in international education.
- The college prepares its students for careers and leadership in a global, knowledge-based economy.

## LIMITATION ON BUSINESS COURSES TAKEN BY NON-MAJORS

Students majoring outside of the College of Business Administration may not take more than 30 hours of business courses.

## PREREQUISITES POLICY

Credit is not granted toward a degree for any business course taken without the prerequisites required by the College of Business Administration. Students who enroll for courses for which they do not have the prerequisites may be administratively dropped from these courses.

## ADMINISTRATIVE STRUCTURE

The College of Business Administration consists of the following administrative units:

- Department of Accounting
- Department of Economics and Finance
- Department of Marketing, Management, and Information Systems
- Small Business Advancement National Center
- Office of Information Technology
- Graduate Programs in Business

## CURRICULA

### *Associate of Applied Science in Business*

#### Requirements

A student must complete 63 hours from among the general education, general business, and business electives as described below. At least 24 of the last 30 hours of the degree must be earned in residence at UCA.

**General education.** Complete 21 hours, to include American History (HIST 2301 or 2302) or US Government (PSCI 1330); WRTG 1310 and 1320, MATH 1360 or above; KPED 1320 or H ED 1320; and 6 hours of other general education courses not specified above.

**Required business courses.** Complete 30 hours of courses in economics, accounting, statistics, and personal computing to prepare the student to better understand the principal functional areas of business and to develop basic computer skills: MATH 1395; INFO 2301, 2343; ECON 1310, 2320, 2321, 2330; ACCT 2310, 2311, 2321.

**Business electives.** Complete 4 courses or 12 hours of upper-division business electives.

**Grades.** Candidates for the associate 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 business classes used as "required business courses"; and
3. a 2.0 grade point average in the business elective courses.

### *Bachelor of Business Administration*

#### Majors

For details on major and minor requirements, please refer to the department listed in parenthesis.

- Accounting (Accounting)
- Business Administration (Economics and Finance)
- Economics (Economics and Finance)
- Finance (Economics and Finance)
- Information Systems (Marketing, Management, and Information Systems)
- Insurance (Economics and Finance)
- Management (Marketing, Management, and Information Systems)
- Marketing (Marketing, Management, and Information Systems)

#### Minors (not open to business majors)

- Accounting (Accounting)
- Business Administration (Economics and Finance)
- Economics (Economics and Finance)
- Information Systems (Marketing, Management, and Information Systems)
- Management (Marketing, Management, and Information Systems)
- Marketing (Marketing, Management, and Information Systems)

### **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**

Major: Economics (Dept. of Economics and Finance)

### **Bachelor of Arts**

Major: Economics (Dept. of Economics and Finance)

### **Masters Degrees in Business Administration**

The university offers a program of study leading to a Master of Business Administration (MBA) degree or an International Master of Business Administration (IMBA). These degrees are designed to serve the needs of qualified students preparing for careers in accounting, business, government, and doctoral study in business administration. The IMBA is especially designed for students preparing for careers in multinational businesses or working in businesses that engage in international commerce. Although an undergraduate business degree is not an admission requirement for graduate business study, UCA's MBA and IMBA are especially designed for students who have earned an undergraduate degree in business administration. A major is not designated under either of these programs. For more information, see the *Graduate Bulletin*.

## **SMALL BUSINESS AND ENTREPRENEURSHIP**

The College of Business Administration houses the Small Business Advancement National Center (SBANC), which is devoted to teaching, research, and service in the areas of small business and entrepreneurship. Academic and continuing-education courses are provided for students, government agencies, foundations, and the business community. The SBANC houses the Small Business Advancement Electronic Resource (<http://www.sbaer.uca.edu>), which is both

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-

demically 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.



# ACCOUNTING

**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.

## BACCALAUREATE DEGREE: BACHELOR OF BUSINESS ADMINISTRATION

The degree of Bachelor of Business Administration with a major in accounting 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; (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 Accounting ..... 24 hours

The major in accounting consists of twenty-four (24) hours of upper-division accounting courses including ACCT 3311, 3312, 3315, 3316, 4304, 4312, 4316, and 4317. Note: Accounting majors must take ACCT 3320 in place of INFO 3321 and ACCT 4315 in place of MGMT 3344 in the Business core.

A minimum of a 2.0 GPA is required overall, in the Business foundation/core, and in the major.

### Minor in Accounting (not open to students earning a BBA degree) ..... 18 hours

The minor in accounting requires eighteen (18) hours of accounting

including ACCT 2310, 2311, 3311, 3312, 3315, and 3316.

## CPA EXAM PREPARATION

To qualify to sit for the Uniform Certified Public Accountant Examination, candidates must have completed 150 hours of course work. Handouts are available in the Department of Accounting that describe these requirements. A student must earn a C or better in all courses that are used to satisfy CPA Exam requirements.

## COURSES IN ACCOUNTING (ACCT)

**2310 PRINCIPLES OF ACCOUNTING I** This is a required course for all business majors in the business foundation. The mode of instruction is lecture/problem solving. Fundamental principles of accounting measurement, evaluation, and recording. The preparation and composition of financial statements is examined. Prerequisite: sophomore status. Fall, spring, summer.

**2311 PRINCIPLES OF ACCOUNTING II** This is a required course for all business majors in the business foundation. The mode of instruction is lecture/problem solving. Continuation of the study of measurement, evaluation, and recording of business information as a basis for decision making. Evaluation of alternatives, profitability, and strategy are examined. Prerequisite: ACCT 2310. Fall, spring, summer.

**2321 LEGAL ENVIRONMENT OF BUSINESS I** (formerly ACCT 3321) This is a required course for all business majors in the business foundation. The mode of instruction is lecture. A study of the constitution and business; the court system and other means of dispute resolution; anti-trust issues; business and labor; consumer rights; enforceable contracts; business and its environment including social responsibility, ethics, and protecting the physical environment. Prerequisite: sophomore status. Fall, spring, summer.

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

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

**3314 MANAGERIAL ACCOUNTING** Course is not open to accounting majors. Degree credit is not given for both ACCT 3314 and ACCT 3315. The mode of instruction is lecture/problem solving. 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.

**Bachelor of Arts**

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

**Major in Economics..... 48 hours**

**Concentration in International Trade:** Fifteen-hour global foundation consisting of HIST 1310, HIST 1320, SOC 1302, ECON 3320, and PSCI 4310. Nine-hour global core consisting of either (a) developing nations track (GEOG 2362, PSCI 3382, and ECON 4375) or (b) developed nations track (GEOG 2361, PSCI 3340, and ECON 4320). Fifteen hours of ECON consisting of ECON 1310, 2320, 2321, 4335, and 4370. Nine hours of upper-division courses to complete the major (must be approved by the advisor). The courses can be in geography, history, political science, or sociology. BA economics majors may not minor in the College of Business Administration, and no more than 9 hours of electives may be in the College of Business Administration. No more than 30 hours total may be taken in the College of Business Administration.

**COURSES IN ECONOMICS (ECON)**

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

**2310 GLOBAL ENVIRONMENT OF BUSINESS** (formerly ECON 3320) A required course of all business majors in the business foundation. The mode of instruction is lecture/discussion. Terminology and basic concepts of international trade. Economic, social, and political issues in the global environment of business. Fall, spring, summer.

**2320 PRINCIPLES OF MACROECONOMICS** Required course of all business majors in the business foundation. The mode of instruction is lecture/discussion. Study of the development of the market system and national economic goals and policies. Tools of macroeconomic analysis. Fall, spring, summer.

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

**2330 BUSINESS STATISTICS** This is a required course of all business majors in the business foundation. The mode of instruction is lecture/discussion. Introduction to descriptive statistics, probability theory (theoretical & empirical), discrete and continuous distributions and sampling concepts. Emphasis on Type I & II errors and on hypothesis testing. Prerequisite: Math 1395. Fall, spring, summer.

**3300 LABOR/MANAGEMENT RELATIONS** Cross listed as MGMT 3300. An elective course for economics and management majors. A lecture/discussion format will be used. This course examines comparative labor movements, the organization and operation of the labor market, industrial relations and collective bargaining, issues of economic security, public policy toward labor practices, unemployment, minimum wage legislation, wage discrimination. Prerequisites: ECON 2320 and 2321. Spring.

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

**3325 DATA ANALYSIS** This is the computer applications course required for all finance and insurance and risk management majors. Lectures emphasize computer utilization to solve problems and interpretation of the results. In-depth study of chi-square goodness of fit, contingency tables, and other nonparametric methods. Emphasis on time series analysis, indexes, simple and multiple regression analysis, and analysis of variance. Prerequisite: ECON 2330. Fall, spring.

**3330 ENVIRONMENTAL ECONOMICS** An elective course for economics majors. A lecture/discussion format will be used. There will be an application of economic tools and concepts to describe and explain the efficient use and preservation of natural resources and environmental quality. Topics covered include regulation, cost-benefit, sustainable development, global comparisons, air pollution, species extinction waste products management, and overpopulation. Fall.

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

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

**4335 INTERNATIONAL TRADE** A required course for the international trade concentration and an elective for economics majors. In-

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 aggregate levels of production, employment, and prices. Public policy implications of recent developments. Business and the macroeconomy. Prerequisites: ECON 2320 and 2321. Spring.

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

**4380 SEMINAR IN ECONOMICS** This course is the writing-intensive course required of BS and BBA economics majors. The mode of instruction is seminar; a paper is required. The student will analyze in depth a significant issue or field of study in economics. Content and prerequisites will vary. Prerequisite: consent of department chair. On demand.

**4395 SPECIAL PROBLEMS IN ECONOMICS** A course required for graduation with departmental honors. This course allows the student to engage in reading and research under the guidance of a faculty member. Prerequisite: consent of department chair. On demand.

## COURSES IN FINANCE (FINA)

**2330 PERSONAL FINANCE** This is an elective course. The mode of instruction is lecture and discussion. Practical applications of personal financial planning, budgeting, and control. Special attention to

the use of credit, insurance, savings, retirement planning, and housing finance. On demand.

**3323 REAL ESTATE** This is an elective course. The mode of instruction is lecture and discussion. Basic principles, laws, and practices related to appraisal, ownership, control, financing, and transfer of residential and other real property. Fall.

**3330 MANAGING FINANCE AND CAPITAL** This is a required course for all business majors in the business core. The mode of instruction is lecture and discussion. Basic problems and principles in financial management, with special attention to financial planning, asset management, sources of financing, and valuation of the enterprise. Prerequisites: ACCT 2310, 2311; ECON 2320, 2321, 2330. Fall, spring, summer.

**3340 MONEY, BANKING, AND FINANCIAL MARKETS** This is a required course for finance majors and an elective for BS economics majors. The mode of instruction is lecture and discussion. Characteristics of money and survey of monetary theory. Description of banking institutions, financial intermediaries, and financial markets. Influence of government regulation on the operation of financial institutions. Prerequisites: ECON 2320 and 2321. Fall, spring.

**3350 PERSONAL FINANCIAL PLANNING** This is a required course for finance and insurance and risk management majors. The main objective of the course is to acquaint students with fundamentals of financial planning and basic understanding of terminology and concepts that are widely used in the financial planning industry. The emphasis is on the latest financial planning methods and techniques for effective money management. The modes of instruction include lecture and discussion. Fall, spring.

**4331 BANK MANAGEMENT** This is an elective course in the finance major. The mode of instruction is lecture and discussion. Principles, practices, and problems of depository institution management with focus on commercial banking operations. Principles and practices of commercial bank lending. Asset, liability, and capital management. The regulatory environment. Commercial bank policy-making and control. This course is essential for an advanced understanding of commercial banking. Prerequisite: FINA 3330 and 3340. Spring.

**4332 INVESTMENTS** This is a required course for finance majors and an elective for BS economics majors. The mode of instruction is lecture and discussion. Basic theory, concepts, and principles applicable in making investment decisions. Emphasis on investment media, investment analysis, valuation techniques, and portfolio construction and management. Prerequisite: FINA 3330. Fall.

**4333 INTERNATIONAL FINANCE** This is a required course for finance and insurance and risk management majors and elective for BS economics majors. The mode of instruction is lecture and discussion. Global financial markets and multinational financial operations. International financial relationships, emphasizing the international financial context of business decision-making. Prerequisites: ECON 2320 and 2321. Spring.

**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.

**4195, 4295, 4395 SPECIAL PROBLEMS IN FINANCE** An investigation of a selected problem in finance consisting of readings and research and designed to involve the student in substantive analysis. Required for graduation with departmental honors. Prerequisite: consent of department chair. On demand.

### COURSES IN INSURANCE AND RISK MANAGEMENT (INSU)

**3315 LIFE AND HEALTH INSURANCE** This is a required course in the insurance and risk management major. The course covers the nature and importance of life and health risks and the functions or uses of insurance contracts in treating these risks. Included are business insurance, annuities, and estate planning. Primary modes of instruction are lectures and discussions. Prerequisites: INSU 3324 and FINA 3350. Spring.

**3320 PROPERTY AND LIABILITY INSURANCE** This is a required course in the insurance and risk management major. The course is designed to aid in the planning and evaluation of the requirements of property and casualty insurance for individual and business firms. Analysis is made of exposures and appropriate insurance coverage. Company operations are examined, and the statistical and mathematical bases for rate-making are explored. Primary modes of instruction are lectures, discussions, and case studies. Prerequisites: INSU 3324 and FINA 3350. Spring.

**3324 RISK AND INSURANCE** (formerly FINA 3324) This is a required course in the insurance and risk management major and an elective course in the Finance major. The mode of instruction is lecture and discussion. Introduction to the basic principles of insurance. Review of the risks that households and businesses experience and the policies used to ensure against these risks. Spring.

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

**4315 EMPLOYEE BENEFITS** This is a required course in the insurance and risk management major. The course focuses on the study, design, and administration of group health, disability, life insurance, and retirement plans. Also includes a study of social security and other related programs for mitigating economic losses due to personal and business risk problems. The course also discusses profit-sharing, 401(k) plans, and flexible benefit plans. Primary modes of instruction are lectures, discussions, and case studies. Prerequisites: INSU 3315 and FINA 4332. Fall.

**4320 CORPORATE RISK MANAGEMENT** This is the required writing-intensive course in the insurance and risk management major. Primarily an applications course that seeks to identify, analyze, and deal with business loss exposures including acts of nature, liability claims, and price risk. Included are selection and application of risk control and risk financing tools such as risk retention, reduction, and transfer including insurance and hedging with financial derivatives. Prerequisites: INSU 3320 and FINA 4332. 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 courses chosen from MGMT 3300, 4342, 4345, 4349, 4350, 4351, 4352; and 6 hours chosen from remaining upper-division management courses and/or MKTG 4352, 4355, 4372.

#### **Minor in Management (not open to students earning a BBA degree) ..... 30 hours.**

ACCT 2310, 2311; ECON 2320, 2321, 2330; MGMT 3340; and 12 hours from upper-division management courses. Please note that the prerequisite for ECON 2330 is MATH 1395 and that ACCT 2310, 2311; ECON 2320, 2321, and 2330 must ALL be completed prior to taking MGMT 3340.

### ***Marketing***

The degree of Bachelor of Business Administration with a major in marketing 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 Marketing ..... 24 hours**

MKTG 4353, 4354, 4355, 4362, 4370, and 9 hours from MKTG 4352, 4356, 4360, 4361, 4371, 4372, 4373; MGMT 4342, 4349, 4352.

#### **Minor in Marketing (not open to students earning a BBA degree) ..... 30 hours**

ACCT 2310, 2311; ECON 2320, 2321, 2330; MKTG 3350; and 12 hours from upper-division marketing courses. Please note that the prerequisite for ECON 2330 is MATH 1395 and that ACCT 2310, 2311; ECON 2320, 2321, and 2330 must ALL be completed prior to taking MGMT 3340.

### ***Information Systems***

The degree of Bachelor of Business Administration with a major in information systems 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.

Students majoring in information systems may choose between two tracks.

#### **End-User Support Track ..... 27 hours**

CSCI 1340; WRTG 3310; INFO 3329, 3363, 3362, 3365; and 9 hours of upper-division information systems courses.

#### **Programmer/Analyst Track ..... 28 hours**

CSCI 1470; WRTG 3310; INFO 3301, 3328, 3363, 4329; and 9 hours of upper-division information systems courses.

#### **Minor in Information Systems (not open to BBA students) ..... 21 hours**

INFO 2343, 3321, and 15 hours of upper-division information systems courses approved by the student's advisor.

## **COURSES IN MANAGEMENT (MGMT)**

**2300 FUNDAMENTALS OF ENTREPRENEURSHIP** An elective course not open to business majors. Students earning a BBA degree will not be given credit for this class. The course provides a foundation of knowledge and tools necessary to successfully plan, design, and start a new business venture and to reduce or avoid many of the problems encountered by such ventures. Lectures, case studies, and discussions are used to examine the issues and problems faced by new business ventures. On demand.

**2341 SUPERVISORY MANAGEMENT** An elective course not open to business majors. Students earning a BBA degree will not be given credit for this class. Course examines the responsibilities of the first line supervisor and develops such supervisory techniques and skills as employee communication, decision-making, maintenance of morale, motivation, leadership, worker productivity, and grievance resolution. Lecture/discussion. On demand.

**3300 LABOR/MANAGEMENT RELATIONS** Cross-listed as ECON 3300. An elective course in the management major. This course examines comparative labor movements, the organization and operation of the labor market, industrial relations and collective bargaining, issues of economic security, and public policy toward labor practices. Lecture/discussion. Prerequisites: ECON 2320 and 2321. On demand.

**3340 MANAGING PEOPLE AND WORK** A required course of all business majors in the business core. Provides an introduction to policies, organizational behavior, and theories and practices used by

managers to reach objectives. Includes development of a philosophy of management. Lecture/discussion. Prerequisites: ACCT 2310, 2311; ECON 2320, 2321, 2330. Fall, spring.

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

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

**4341 QUANTITATIVE METHODS IN MANAGEMENT** This course is the computer applications course required of all management majors. The class emphasizes the development of an understanding of such quantitative aids to decision making as review of probability, linear programming, queuing theory, simulation techniques, network analysis, and Markov analysis. Lecture/discussion. Prerequisite: MGMT 3340. Spring.

**4342 INTERNATIONAL BUSINESS** An elective in the management and marketing majors. The course involves a study of foreign operations of American firms. Emphasizes the various environments, theories, and institutions in international trade, the strategies of multinationals, and the functional areas of managing international operations. Uses the Internet in researching international business topics. Lecture/discussion format supplemented by student presentations of studies on selected countries. Prerequisites: MGMT 3340, MKTG 3350, FINA 3330. Spring.

**4345 PERSONNEL/HUMAN RESOURCE MANAGEMENT** An elective course in the management major. Class examines the role of personnel/human resource management in organizations. Emphasizes selecting, developing, and compensating the organization's human resource. Lecture/discussion. Prerequisite: MGMT 3340. Fall, spring.

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

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

**4349 SMALL BUSINESS MANAGEMENT** An elective in the management and marketing majors. Class is intended for students who may form or be employed by a small or family-owned business. Supplements management theory by providing well-balanced coverage of critical small business issues and practical experience in the determination and solution of actual business problems. Internet applications and case studies in the small business community augment lecture and discussion and are used to examine the issues and problems faced by small and family-owned businesses. Prerequisite: Consent of instructor. Fall, spring.

**4350 COMPENSATION ADMINISTRATION** An elective in the management major. Course examines the design and administration of compensation systems. Considers general pay-level determinants, job evaluation, wage/salary surveys, monetary incentives, gain-sharing programs, fringe benefit and pension plans, government regulation of pay structures, and contemporary compensation issues. Lecture/discussion. Prerequisite: MGMT 3340. Fall.

**4351 CONTEMPORARY ISSUES IN HUMAN RESOURCE MANAGEMENT** An elective in the management major. Course analyzes issues of current importance to human resource managers. Focuses on methods used to maximize effectiveness and equity of human resource activities and identifies complementary policies and programs necessary for implementing such activities. Emphasizes linking of human resource management to the strategic management of the organization. Uses lecture, discussion, and case analysis. Prerequisite: MGMT 3340. Spring.

**4352 PURCHASING AND MATERIALS MANAGEMENT** An elective in the management and marketing majors. Course examines the processes and problems involved in acquiring and controlling materials and services. Includes source selection, inventory management, competitive bids and negotiations, measuring purchasing performance, and uses of the Internet. Uses lecture and discussion supplemented by research on realistic procurement problems and on-site visits. Prerequisites: MGMT 3340 and MKTG 3350. On demand.

**4390 SPECIAL PROBLEMS IN MANAGEMENT** An elective course in the management major. Students conduct a guided study of a management-related topic. Used primarily by students wishing to earn departmental honors. Prerequisite: Consent of department chair.

## COURSES IN MARKETING (MKTG)

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

**3350 PRINCIPLES OF MARKETING** (formerly Managing Customers and Markets) A required course of all business majors in the business core. The course examines the role of marketing and marketing processes. The student will acquire an understanding of mar-



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.

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

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

**4355 MARKETING MANAGEMENT** A required course in the marketing major and an elective in the management major. Focuses on applying marketing concepts to business cases and studying the managerial implications of product, pricing, distribution, promotion, and their relationships to customers and business environment. Uses lecture, discussion, and student group work/presentations. This course has been designated as the writing-intensive course for the marketing major. Prerequisite: 9 hours of marketing or consent of instructor. Fall, spring.

**4356 FASHION MERCHANDISING AND E-COMMERCE** An elective in the marketing major. The course examines marketing fundamentals, retailing, and salesmanship as applied to the merchandising of fashion goods. Considerable emphasis on e-commerce, field trips, and guest lecturers. Class lecture and discussion are supplemented by students going to market and presenting research dealing with fashion to designers. Prerequisite: Consent of instructor. Spring.

**4360 HEALTH CARE MARKETING** An elective in the marketing major. Course uses applications of basic theoretical and practical marketing knowledge to the health care industry and gives students an

exposure to contemporary health care marketing literature. The goal of the course is to orient students to the marketing and management of health care services. The format of the course includes lecture, discussion, presentations by health care practitioners, and an in-depth examination of healthcare marketing and management literature. Prerequisite: Consent of instructor. Fall.

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

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

**4370 FUNDAMENTALS OF DIRECT MARKETING AND E-COMMERCE** A computer applications course required of all marketing majors. Class provides an understanding of the strategies, tactics, processes, and technologies associated with direct marketing and e-commerce. Lectures, videos, and practical exercises are used in examining fundamental concepts, principles, business considerations, and associated practical applications. Prerequisite: MKTG 3350. On demand.

**4371 ADVERTISING** An elective course in the marketing major. Course examines advertising concepts, campaign strategy, media mix, advertising research, preparation of advertising copy, agency descriptions, and the relationship of advertising to the marketing mix. Uses a mix of lecture, discussion, and a required group project. Prerequisite: MKTG 3350. Fall.

**4372 SALES MANAGEMENT** An elective course in the marketing and management majors. Course examines the administration of the sales force and the techniques of personal selling. Uses lecture, discussion, and a required sales presentation. Prerequisite: MKTG 3350. Fall.

**4373 PUBLIC RELATIONS** An elective course in the marketing major. Course surveys public relations strategies and tactics used as management tools and analyzes methods employed by profit and nonprofit organizations relating to stockholders, prospective investors, employees, communities, customers, and government agencies. Uses lecture, discussion, and a required group project. Prerequisite: MKTG 3350. Spring.

**4390 SPECIAL PROBLEMS IN MARKETING** An elective course in the marketing major. Students conduct a guided study of a market-

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 or 1470. Spring and on demand.

**3363 BUSINESS TELECOMMUNICATIONS** A required course for all information systems majors. Students will learn about computer networks through lab activities and lectures. This course provides an introduction to telecommunication standards and networking options available to organizations. Lecture/discussion/application format used in computer laboratory. Prerequisite: INFO 3321. Fall, spring.

**3364 DESKTOP PUBLISHING** An elective for students in either track of the information systems major and intended for students interested in developing advanced word-processing and desktop-publishing skills. Provides training and applications in advanced information processing skills, layout, and design techniques. Networked format used. Prerequisite: INFO 1343 or 2343. Spring.

**3365 DATABASE APPLICATIONS** (formerly Information and Records Management) A required course in the end-user support track of the information systems major and an elective course in the programmer/analyst track. Emphasizes the creation, maintenance, interrogation, and utilization of PC-based relational database software to manage business data (information). The primary mode of instruction in this course is computer-based database development activities. Prerequisites: INFO 1343 or 2343, 3321, and 3362. Fall and on demand.

**3366 WEB SITE MANAGEMENT** An elective in either track of the information systems major intended for students interested in learning about web page design concepts, web server support, and FTP techniques. Assumes knowledge of Windows and the internet and introduces students to the development of web pages using HTML and other web design software through lecture, demonstration, and practice in a networked computer lab. Prerequisite: INFO 1343 or 2343. On demand.

**4301 FILE PROCESSING APPLICATIONS WITH COBOL** (formerly INFO 3310) An elective in either track of the information systems major. Provides instruction in advanced programming through lab activities, programming clinics, and lectures. Addresses loop construction, control breaks, data validation, table handling, updating a master file, sequential, indexed, and relative file processing, sorting, and searching (algorithms and syntax), program calls, string manipulation, elements of object-oriented programming. Prerequisite: Minimum of C in INFO 3301. Fall, spring.

**4329 DATABASE MANAGEMENT SYSTEMS** A required course in the programmer/analyst track and an elective in the end-user track of the information systems major and intended to prepare students for such careers as network managers/consultants using organizational databases. Assumes a basic knowledge in computer programming, systems analysis and design, and a general knowledge of organizational computer systems. Introduces students to the basic concepts of database analysis, design, and implementation with emphasis on the relational database model. Concepts are applied using the ORACLE software package. Primary instruction method is lecture along with laboratory exercises. Prerequisite: INFO 3328. Fall, spring.

**4339 COMPUTER APPLICATIONS IN BUSINESS** An elective course for students in either track of the information systems major. Examines modeling, simulation, and other quantitative methods common to business applications used in a data-processing environment. Lecture/discussion supplemented through applications of software packages and student-written programs. Prerequisite: INFO 3321. Fall, spring.

**4350 INFORMATION SYSTEMS TECHNOLOGY** An elective course for students in either track of the information systems major that provides a capstone learning experience. Uses and builds on concepts acquired in prerequisite courses. Expands the knowledge base and builds upon the concepts and applications of rapidly-changing technologies used to support business functions. Primary mode of instruction is discussion and lecture with computer-based activities serving a supporting role. Prerequisites: CSCI 1340 or 1470; INFO 1343 or 2343, 3321. On demand.

**4362 ADMINISTRATIVE INFORMATION MANAGEMENT** An elective course for students in either track of the information systems major that provides tools for managing the technology and human resources of the organization's information center. Primary mode of instruction is discussion and lecture, with computer-based advanced spreadsheet activities used for managerial decision making serving a supporting role. Prerequisites: CSCI 1340 or 1470; INFO 1343 or 2343, 3321. Spring and on demand.

**4390 SPECIAL PROBLEMS IN INFORMATION SYSTEMS** An elective course in the information systems major in which students conduct a guided study of an information systems-related topic. Used primarily by students wishing to earn departmental honors. Prerequisite: Consent of department chair.

## COLLEGE OF EDUCATION

**Dean and Professor:** Dr. Jane McHaney, 450-3175  
**Interim Associate Dean and Instructor:** Ms. Debbie Barnes, 450-5407

The College of Education has as its major function the preparation of professional personnel for elementary and secondary schools, selected human services positions, and other related professional careers. Emphasis is placed upon providing exemplary programs grounded in research, theory, and practice. The college prepares professionals as lifelong learners who are catalysts for restructuring institutions and renewing personnel charged with the education and welfare of those they serve.

To help achieve this mission, the college is committed to working collaboratively with elementary and secondary schools, post-secondary institutions, state agencies, and other public and private groups to address educational issues. Faculty are actively involved with state, regional, and national organizations, schools, and human service agencies.

The college is housed in Mashburn Hall on campus, and the Child Study Center is adjacent to the university campus. The college is composed of three academic departments: Academic Technologies and Educational Leadership, Curriculum and Instruction, and Psychology and Counseling. The Office of Professional Field Services coordinates early field experiences, student teaching, and licensure. The Center for Academic Excellence is the college's research, service, and outreach unit.

### CURRICULA

#### ***Bachelor of Arts***

Psychology

#### ***Bachelor of Science in Education***

Childhood Education (P-4)

Middle Level Education (4-8)

**Bachelor of Science**

Psychology

**Master of Science in Education**

Business Education  
 Early Childhood Education  
 Elementary Education, Gifted Education Emphasis  
 Special Education  
     Early Childhood Special Education  
     Mildly Handicapped K–12  
     Moderately and Profoundly Handicapped K–12  
     Seriously Emotionally Disturbed K–12  
 Elementary School Leadership  
 Secondary School Leadership  
 Reading

**Master of Science**

Library Media and Information Technology  
 School Counseling  
     Elementary  
     Secondary  
 School Psychology  
 Counseling Psychology  
 Community Service  
 Student Personnel Services in Higher Education

**Education Specialist**

Educational Leadership

*Graduate programs in teacher education are currently under review to ensure a curriculum reflecting exemplary practices and meeting new licensure requirements. For more information, contact the College of Education, 450-5401.*

**ACADEMIC TECHNOLOGIES AND EDUCATIONAL LEADERSHIP**

**Chair and Professor:** Dr. Royal, 450-3177  
**Professors:** Dr. Arn, Dr. Hardin, Dr. Peterson  
**Associate Professors:** Dr. Charter, Dr. Griffin, Dr. Thurman  
**Clinical Instructor:** Ms. McKinney

Programs within the Department of Academic Technologies and Educational Leadership include business and marketing technologies, educational leadership, and educational media/library science (library, media, and information technologies).

**BUSINESS/MARKETING  
 TECHNOLOGY EDUCATION**

**Purposes**

Programs of study in business technology education and marketing technology are designed for individuals preparing for careers as secondary and post-secondary teachers.

*Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Academic Technologies and Educational Leadership (450-3177), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

**EDUCATIONAL MEDIA/LIBRARY SCIENCE**

See the *Graduate Bulletin* for programs in library, media, and information technologies.

**EDUCATIONAL LEADERSHIP**

See the *Graduate Bulletin* for programs in educational leadership.

**COURSES IN BUSINESS/MARKETING  
 EDUCATION (BMED)**

**2306 METHODS AND MATERIALS FOR TEACHING OCCUPATIONAL SURVIVAL SKILLS** An elective that investigates teaching methods and curriculum materials for teaching occupational survival skills to disadvantaged/handicapped learners through discussion and independent research. On demand.

**3370 INTRODUCTION TO INDUSTRIAL SAFETY** An elective that enumerates rules and standards of occupational safety, identifies industrial hazards, discusses techniques of accident prevention, and explores ways to implement safety programs through discussion and computer-aided instruction. On demand.

**4311 CAREER ORIENTATION** Identification of kinds, types, and sources of occupational information for prospective workforce education teachers of career orientation. Summer and on demand.

**4312 ACTIVITY BASED LEARNING EXPERIENCES IN CAREER ORIENTATION** Techniques and methods of presenting occupational information and processes typical of the world of work in career orientation classes. Summer. On demand.

**4315 OCCUPATIONAL ANALYSIS** An elective that explores the selection, task analysis, and instructional preparation for specific occupations in vocational education service areas through discussion. On demand.

**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.

# CURRICULUM AND INSTRUCTION

**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. Sumpter

**Clinical Instructor II:** Ms. Kelley

**Clinical Instructor I:** Mr. Barrington, Ms. Cain, Ms. George, Ms. Greenland, Ms. Mosbo

**Child Study Center Instructors:** Ms. Rowell, Ms. Sturdivant

## DEPARTMENTAL PURPOSES

The primary purposes of the department are to (a) prepare novice teachers with entry-level skills that will allow them to develop into competent professionals, (b) prepare experienced professionals with the knowledge and skills that will allow them to assume leadership roles in schools and other agencies and organizations whose principal functions relate to P-12 schooling, (c) provide service to agencies and organizations that interface with P-12 schools and the preparation of teachers and other educators, and (d) advance the knowl-

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.

*General education* – requires the completion of the general education component (see p. xx). GEOG 1305, HIST 2301 OR 2302, MATH 1390, PHYS 1400, and PSCI 1330 should be selected because these courses fulfill both general education requirements and program requirements.

*Professional education* – 57 semester hours: CHED 3200, 3400, 4200, 4219, 4309, 4311, 4320, 4400, 4600, 4603, 4604; CIED 1300, 4200, 4300; EMLS 3200; SPED 3310, 4310. CIED 1300 and CHED 3200 must be completed prior to admission to the teacher education program.

*Related requirements* – ART 4360; BIOL 4440; ENGL 3310; HIST 3310; KPED 3320; MATH 3351, 4310; MUS 3351. In addition, GEOG 1305, HIST 2301 or 2302, MATH 1390, PHYS 1400, and PSCI 1330 must be taken if not completed as part of the general education requirements.

*Delivery of courses* – With the exception of the general education courses, CHED 3200, and CIED 1300, all requirements must be completed after admission to the teacher education program. Several courses are scheduled to form blocks, and these courses must be taken simultaneously. **Mini-block:** CHED 3400 and SPED 3310 must be completed first upon admission to teacher education. **Creative arts block:** ART 4360, KPED 3320, and MUS 3351 must be taken the semester prior to entry into Teaching Block I. **Teaching Block I:** CHED 4200, 4309, 4311, 4400; CIED 4200; EMLS 3200. **Teaching Block II:** CHED 4219, 4320, 4600; CIED 4300; SPED 4310. **Directed Teaching Block:** CHED 4603, 4604.

## MIDDLE LEVEL EDUCATION (4–8) PROGRAM

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

Candidates interested in pursuing a major in middle-level education must choose one of the following tracks: language arts/social studies track or mathematics/natural sciences track. Candidates who successfully complete one of these tracks 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.

**Major in Middle Level Education (4–8) ..... 130 hours**

### **Language Arts/Social Studies Track**

*General education* (47 hours): Requires completion of the general education component (see p. 18). The following courses should be selected from those categories that provide options because these courses fulfill both general education requirements and program re-

quirements: ART 2300; BIOL 1400; ECON 1310; ENGL 2305 or 2306, 2370; HIST 1310, 2301; MATH 1390; PHYS 1400; PSCI 1330; WRTG 1310, 1320.

*Concentration in Language Arts/Social Studies* (60 hours including 24 hours taken as part of general education): In addition to the courses specified for general education, the following courses are required: ENGL 2312, 2313, 3320, 3335, and a cross-cultural elective in either Asian, Latin American, or African American (see options below); GEOG 1320; HIST 1320, 2302, 2320, 4355, and the same cross-cultural elective in Asian, Latin American, or African American as selected for English (see options below); SOCI 3310; WRTG 3305.

Cross-cultural studies (Courses are taken concurrently and with the same content emphasis, e.g., Asian.)

English: Select one of the following: ENGL 4304, 4380; FLAN 2315.  
History: Select one of the following: HIST 3303, 3304, 3312, 3315, 3353, 3354, 4305, 4328, 4381, or 4388.

*Professional Education* (47 hours): CIED 1300, 4200, 4300; EMLS 3200; MLED 3210, 3220, 3300, 3310, 4210, 4260, 4305, 4320, 4325, 4411, 4712; SPED 3310.

### **Mathematics/Natural Sciences Track**

*General Education* (47 hours): Requires completion of the general education component (see p. 18). The following courses should be selected from those categories that provide options because these courses fulfill both general-education and program requirements: BIOL 1400, PHYS 1400, MATH 1390.

*Concentration in Mathematics and Natural Sciences* (47 hours including 11 hours taken as part of general education): In addition to the courses specified for general education, the following courses are required: CHEM 3430; MATH 1360, 2320, 3351, 4310, 4314, 4510; SCI 3410, 3420, 4420.

*Professional Education* (47 hours): CIED 1300, 4200, 4300; EMLS 3200; MLED 3210, 3220, 3300, 3310, 4215, 4260, 4305, 4320, 4325, 4411, 4712; SPED 3310.

### **Delivery of Courses (both tracks)**

With the exception of CIED 1300, all professional education requirements must be completed after admission to the teacher education program. Also, several of the content courses in the language arts/social studies track and mathematics/natural sciences track must be taken after admission to the teacher education program. Several professional education and content courses are scheduled to form blocks, and these courses must be taken together. Consult with the Chair of the Department of Curriculum and Instruction for details.

## COURSES IN CHILDHOOD EDUCATION (CHED)

### **CHED 3200 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION**

This course introduces candidates to the various roles assumed by teachers in the field of early childhood education. Fall, spring, summer.

**CHED 3400 EARLY DEVELOPMENT AND LEARNING THEORIES**

This course is taken as part of the mini-education block and upon admission to teacher education. The course introduces candidates to the cognitive, social, emotional, physical, and language development of young children including those with disabilities, developmental delays, special abilities, and diverse backgrounds. Lectures, discussions, videotaped presentations, demonstrations, and field experiences are central to this course. Fall, spring.

**CHED 4200 SCHOOL, FAMILY, AND COMMUNITY PARTNERSHIPS**

This course is designed for candidates majoring in education with a focus in P–4 early childhood studies. It focuses on families as they exist in relationship to school and community partnerships. Although primarily a lecture format, students are expected to participate in discussion during small and large group activities. Prerequisite(s): All courses previous to admission to Teaching Block I. Fall, spring.

**CHED 4219 GUIDANCE AND BEHAVIOR MANAGEMENT**

This course is part of the professional block and required of all candidates before directed teaching. The course introduces candidates to the strategies, skills, and models for guiding and managing students. Lectures, discussions, demonstrations, and field experiences are central to the course, which will be conducted on the university and public school campuses. Prerequisite(s): All education courses previous to Teaching Blocks are required. Fall, spring.

**CHED 4309 CLASSROOM MANAGEMENT FOR P–4**

This course introduces candidates to the strategies, skills, procedures, and models for managing the classroom. Prerequisites: All courses previous to admission to Teaching Block I. Fall, spring.

**CHED 4311 READING/LITERACY INSTRUCTION**

This course is the first part of a two-semester sequence that prepares teacher candidates to teach reading in the P-4 classroom. The course develops a knowledge base related to emerging literacy and the specific competencies necessary for successful reading instruction within a variety of classroom situations and with diverse populations. Prerequisite(s): All courses previous to admission to Teaching Block I are required. Fall, spring.

**CHED 4320 PRINCIPLES AND PRACTICES OF READING AND WRITING STRATEGIES**

This course develops a knowledge base related to the foundations of literacy learning and the specific competencies required for effective reading instruction. The course prepares candidates to teach the processes of reading and writing to all students by presenting research-based approaches to teaching reading, current formal and informal assessment procedures, strategies to assist students with diverse learning needs and cultural backgrounds, professional practices, and the connection between the reading and writing processes. Lecture, group activities, and field experiences are integral parts of the course that will be taught both on the university campus and within the public school setting. Prerequisite(s): All education courses previous to Teaching Block II. Fall, spring.

**CHED 4400 INTEGRATED CURRICULUM, PLANNING, AND ASSESSMENT OF LEARNING**

This course is a study of early childhood curriculum with developmental bases for learning, teaching,

and assessing from both historical and current practices. The changing role of the teacher in developing curriculum for diverse populations will be emphasized. Prerequisite(s): All courses previous to admission to Teaching Block I are required. Fall, spring.

**CHED 4600 INSTRUCTIONAL STRATEGIES FOR EARLY CHILDHOOD EDUCATION**

This course focuses on the development and implementation of strategies and materials using developmentally appropriate techniques that are professionally compatible with current research and practice. The diverse needs of the child and the integration of the curriculum are stressed in the implementation of teaching materials and strategies. Prerequisite(s): All education courses previous to Teaching Block II. Fall, spring.

**CHED 4603 DIRECTED TEACHING**

This course involves teaching under supervision in a licensed preschool or kindergarten. Requires full-day involvement and seminars. Prerequisite: admission to directed teaching and completion of all professional education courses. Taken concurrently with CHED 4604 Directed Teaching. Fall, spring.

**CHED 4604 DIRECTED TEACHING**

This course involves teaching under supervision in grades 1, 2, 3, or 4. Requires full-day involvement and seminars. Prerequisite: admission to directed teaching and completion of all professional education courses. Taken concurrently with CHED 4603 Directed Teaching. Fall, spring.

## COURSES IN CURRICULUM AND INSTRUCTION (CIED)

**CIED 1300 EDUCATION AS A PROFESSION**

This is a required course for P–4 and middle-level education candidates for admission into the teacher education program and an elective course for candidates entering secondary-level education in other program areas. The course is designed to help students explore their motivation for teaching; overview the structure of the American public school, both as an institution within itself and as an agency of society; gain a sense of the changing nature of schooling; and understand the UCA teaching program. A 20-hour field experience is required. Fall, spring, summer.

**CIED 4200 CULTURAL DIVERSITY AND MULTIPLE INTELLIGENCES**

This course assists candidates in developing a knowledge base and an awareness of an increasingly diverse student population. Candidates will explore multiple areas of student diversity, to include language, socioeconomic status, gender inequities, and multiple intelligences. Required as part of Teaching Block II for CHED majors and as part of Professional Block I for MLED majors. Fall, spring.

**CIED 4300 TEACHING AS AN ETHICAL ENTERPRISE**

This course focuses on ethical issues that challenge teachers in the performance of their responsibilities as professionals. Issues will be studied from interpretive, normative, and critical perspectives in the context of education in a democratic society. Taken as part of Teaching Block II for CHED majors and as part of Professional Block IV for MLED majors. Fall, spring.



## COURSES IN EDUCATIONAL MEDIA AND LIBRARY SCIENCE (EMLS)

**EMLS 3200 INTEGRATING TECHNOLOGY INTO TEACHING** This course focuses on the development and implementation of strategies to integrate electronic resources into the curriculum. Candidates must be admitted to the teacher education program. Prerequisite(s): EDUC 1220 or 1220 competencies. Required as part of Teaching Block I for CHED majors and as part of Professional Block III for MLED majors. Fall, spring, and summer.

## COURSES IN MIDDLE LEVEL EDUCATION (MLED)

**MLED 3210 MIDDLE SCHOOL CONCEPTS** This course is required for all middle-level education majors. It examines key concepts that guide the development of exemplary middle schools. Prospective middle-school teachers will have the opportunity to study the rationale underlying these concepts; interact with middle-school students, teachers, and administrators; and observe concepts in practice. This course will utilize lectures, case studies, observations, and projects. It is part of Professional Block I. Prerequisite(s): Admission to teacher education. Fall.

**MLED 3220 PRINCIPLES OF LEARNING** This course is designed to enable candidates to analyze, use, and incorporate an inclusive understanding of key theories of learning and how these theories deal with principles of development and influence teacher decision making for middle-grade students. The methodology used will model developmentally appropriate middle-level instructional strategies. Various teaching practices may be used such as cooperative learning, small and large group work, individual study, presentations, simulation, and shadow studies. Instructional technology will be introduced as appropriate. Prerequisite(s): Admission to teacher education and completion of Professional Block I. Spring.

**MLED 3300 YOUNG ADOLESCENT DEVELOPMENT** This course serves as an in-depth orientation to the unique developmental needs and characteristics of young adolescents, ages 10 to 14. The methodology used in this course will model developmentally appropriate middle-level instructional strategies. Various teaching practices such as cooperative learning, small and large group work, individual study, presentations simulation, and shadow studies may be used. Instructional technology will be introduced as appropriate. Taken as part of Professional Block I. Field experiences are required. Prerequisite(s): Admission to teacher education. Fall.

**MLED 3310 FAMILY, SCHOOL, AND COMMUNITY PARTNERSHIPS** This course examines the theory, research, and practice of school, family, and community partnerships with an emphasis upon a variety of effective strategies. Prospective middle-level teachers will have the opportunity to examine the rationale for and various means of establishing and maintaining meaningful relationships with students' families and their communities. The course is designed to equip future educators with the knowledge and skills to form productive partnerships with students' families and community members. Course goals will be accomplished through the use of lecture, discussion, and field

experiences. Prerequisite(s): Admission to teacher education. Taken as part of Professional Block II.

**MLED 4210 INTEGRATED METHODS FOR LANGUAGE ARTS AND SOCIAL STUDIES** This course serves as a study of methods used in the teaching of middle-level language arts and social studies. It addresses basic models, strategies, and skills necessary for teaching language arts and social studies in an integrated curriculum. It is part of Professional Block III. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Fall.

**MLED 4215 INTEGRATED METHODS FOR MATHEMATICS AND SCIENCES** A study of methods used in teaching integrated mathematics and science in middle schools. Course includes basic models, strategies, and skills for teaching. Course goals will be accomplished through the use of demonstrations, discussion, and field experiences. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Fall.

**MLED 4260 PROFESSIONAL DEVELOPMENT SEMINAR** This seminar focuses on emerging issues; legal rights of students, parents, and teachers; co-curricular responsibilities of teachers; staff development; and other "rite of passage" matters confronting novices preparing to enter the profession. Lectures, guest speakers, satellite conferencing, and student-generated seminar sessions will be utilized. Requires admission to the teacher education program. This course is part of MLED Professional Block IV. Prerequisite(s): Admission to teacher education and completion of Blocks I, II, and III. Spring.

**MLED 4305 CLASSROOM AND BEHAVIOR MANAGEMENT** This course focuses on principles of classroom organization and management, building classroom rapport, fostering human relations skills, developing preventive approaches to classroom discipline, and using alternative classroom discipline approaches. Taken as part of Professional Block III. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Fall.

**MLED 4320 INTEGRATED CURRICULUM, PLANNING, AND ASSESSMENT** This field-based course is intended to equip prospective middle-level teachers with the knowledge, skills, and dispositions needed to plan and teach thematically. Students will participate as members of interdisciplinary teams in the design of lesson activities and assessments that cross disciplinary lines. The course will include lecture, discussion, and field experiences. This course is taken as part of the MLED Professional Block III. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Fall.

**MLED 4325 LITERACY DEVELOPMENT IN THE CONTENT AREAS** This course prepares candidates to teach the processes of reading/literacy across content areas to all students, including students with and without disabilities. Emphasis is given to research-based approaches to teaching content area reading and learning with texts; strategy instruction in diverse classrooms; current formal and authentic assessment procedures; professional practices; and the connections among texts, content learning, and the reading and writing/language processes. Lectures, group activities, and field experiences are integral parts of the course, which will be taught both on

the university campus and within the public school setting. This course is part of MLED Professional Block III. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Spring.

**MLED 4411 DIRECTED TEACHING I IN MIDDLE GRADES** This course involves teaching under supervision in a middle school (grades 4–8). Requires seminars. Prerequisite: admission to directed teaching and completion of designated professional education and specialty courses. Taken as part of Professional Block III. Prerequisite(s): Admission to teacher education and completion of Blocks I and II. Fall.

**MLED 4712 DIRECTED TEACHING II IN MIDDLE GRADES** This course involves teaching under supervision in a middle school (grades 4–8). Requires seminars. Taken as part of Professional Block IV. Prerequisite(s): Admission to teacher education and completion of Blocks I, II, and III. Spring.

**COURSES IN SPECIAL EDUCATION (SPED)**

**SPED 3310 CHARACTERISTICS OF CHILDREN WITH DIVERSE LEARNING NEEDS** This course introduces candidates to differences in development among individuals, birth through middle grades, with disabilities. Candidates will use this information to incorporate knowledge and strategies from multiple disciplines into daily activities and routines. Lectures, discussions, and field experiences in a preschool setting are central to this course. Taken as part of the mini-block for CHED majors and as part of Professional Block II for MLED majors. Prerequisite(s): Admission to teacher education. Fall, spring.

**SPED 4310 TEACHING CHILDREN WITH DIVERSE LEARNING NEEDS** This course prepares candidates to develop skills necessary to assist students with diverse learning needs in the general education setting. As a result, the candidate will be able to design and deliver modifications and accommodations for learners with and without disabilities. Taken as part of Teaching Block II. Prerequisite(s): Admission to teacher education and completion of Teaching Block I. Fall, spring.

**PSYCHOLOGY AND COUNSELING**

**Chair and Professor:** Dr. Skotko, 450-3193  
**Professors:** Dr. Glenn, Dr. B. Smith, Dr. Williams  
**Associate Professors:** Dr. Bihm, Dr. Bramlett, Dr. Lammers, Dr. Leonard, Dr. Murphy, Dr. Scoles, Dr. T. Smith  
**Assistant Professors:** Dr. Barile, Dr. Boniecki, Dr. Eichler, Dr. Nelson, Dr. Rowell  
**Instructors:** Ms. Booher, Ms. Dielmann, Ms. Dobbs

**PURPOSES**

The purposes of undergraduate offerings in psychology are (1) to provide an introduction to the science of understanding and predicting human behavior; (2) to provide psychology majors the foundation for advanced study in psychology and related areas; and (3) to provide prospective teachers and students majoring in other fields with psychological principles applicable to their disciplines.

**THE HONORS PROGRAM IN PSYCHOLOGY**

Juniors and seniors with a GPA of 3.0 or above are eligible to participate in an honors program with consent of the department.

The honors program is coordinated by a faculty honors committee. See department chair or advisor for details.

**BACCALAUREATE DEGREES**

***Bachelor of Science***

The Bachelor of Science degree in psychology requires successful completion of 124 hours, including (1) general education requirements; (2) degree requirements; and (3) 36 hours in the department as indicated below. A minor must be worked out with the student's advisor in the minor department.

***Bachelor of Arts***

See department advisor for degree requirements.

**Major in Psychology ..... 36 hours**

**Category I: Core (21 hours)**

- PSYC 1300 General Psychology
- PSYC 2330 Psychological Statistics
- PSYC 3332 Experimental Psychology
- PSYC 3340 Experimental Psych Lab
- PSYC 3351 Psychology of Learning
- PSYC 4320 Abnormal Psychology
- PSYC 4340 History and Systems of Psychology

**Category II: Choose 3 hours**

- PSYC 2350 Sensation and Perception
- PSYC 3310 Psychophysiology
- PSYC 3325 Cognitive Psychology
- PSYC 4325 Physiological Psychology

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

**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

## DEGREES OFFERED

### ***Bachelor of Arts***

Art (emphases in fine arts, art education, or art history)  
Mass Communication (emphases in journalism or telecommunications)  
Music (pending approval)  
Speech and Theatre (emphases in speech communication, public relations, or theatre)  
Writing and Rhetoric

### ***Bachelor of Fine Arts***

Studio Art (emphases in ceramics, illustration or graphic design, painting, printmaking, or sculpture)

### ***Bachelor of Music***

Performance  
Music Education (emphases in choral or instrumental)

### ***Bachelor of Science***

Mass Communication (emphases in journalism or telecommunication)  
Speech and Theatre (emphases in public relations, speech communication or theatre)

### ***Master of Music***

See *Graduate Bulletin*.

## ART

**Chair and Professor:** Dr. Burchett, 450-3113

**Professors:** Mr. Bowman, Dr. Caldwell, Mr. Larsen, Mr. Massey, Ms. Phillips, Dr. Seymour

**Associate Professors:** Ms. Brands-Wallace, Dr. Cohen

**Assistant Professors:** Ms. Caufield, Dr. Young

**Visual Resource Librarian/Lecturer:** Dr. Tekippe

**Gallery Director/Instructor:** Mr. Jenkins

**Studio Technician/Instructor:** Mr. Slentz

### MISSION

The Department of Art views educational achievement as both an individual and collective responsibility. Offering a variety of undergraduate programs in art, the department directs the educational progress of students toward quality research, creative practice, and public service.

Art uniquely transforms those who create and those who respond. The department uses the transformative value of art to connect members of the community, enhancing and enriching lives, and making us more conscious of ourselves and others in the world.

To accomplish its mission, the Department of Art has established the following goals:

- To challenge students with an intensive curriculum characterized by individualized instruction.
- To reward faculty who demonstrate excellence in teaching, scholarly and creative endeavors, and community service.
- To maintain facilities and resources that foster opportunities to experience the creation, presentation, and study of the visual arts.
- To serve as a center for community involvement in the visual arts and to broaden public access to the arts.

### DEPARTMENTAL REQUIREMENTS

Advancement to an art degree program in studio or art education is contingent upon the recommendation of the art faculty on completion of the Sophomore Major Advancement Interview, after which a program of study is designed with an art faculty advisor.

A minimum of 15 semester hours in art must be taken at the university, including 12 hours of 3000/4000 level courses. The department recognizes courses taken at other accredited institutions. Courses transferred do not necessarily satisfy the specific requirements of the department. Transfer students must present a portfolio for faculty review.

A comprehensive review and an exhibit are required during the senior year.

### BACCALAUREATE DEGREES

Two degrees are offered: (1) the BA in art with an emphasis in an area of studio art, art history, or art education; and (2) the BFA in studio art with an emphasis in graphic design or an area of the fine arts.

#### ***The Core Curriculum***

**Core** (required of all degree programs): ART 1310, 1321, 2312, 2322, and 6 hours from 2325, 2335, and 2336.

**Area Studies:** ART 3324, 3 hours advanced art history, 3 hours from Category A: 3304, 3361, 3379, 3000-level art history; 3 hours from Category B: 3318, 3330, 3332, 3334, 3342, 3343; 3 hours from category A or B; and ART 2140, 3140, 4140 (4140 not required in BFA).

**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; 9 hours of studio electives to total 48 hours in art and art history.

**Art Education Emphasis:** 36 hours of core and area studies curriculum; ART 3304, 4350, 4361, and 3 hours elective art history to total 48 hours in art, art education, and art history. Students seeking teacher licensure must complete the UCA College of Education licensure requirements. This emphasis and licensure requirements may require more than the normal eight semesters to complete.

*Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Art (450-3113), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

**Art History Emphasis:** ART 1310 or 2312; ART 1321 or 2322; 33 hours of art history courses including ART 4372; 6 hours ART 4302 to total 45 hours in art history and art.

**Minor in Art ..... 24 hours**

Twenty-four hours of art, including ART 1310 or 2312; 1321, 2322, 3 hours art history, 12 hours studio elective, nine of which must be upper-level.

Programs of study for art minors are subject to approval by the art department.

**Minor in Art History ..... 24 hours**

Twenty-four hours of art, 9 of which must be upper-division courses: ART 2325, 2335, 2336; 3 hours studio art; 9 hours selected from ART 3301, 3302, 3303, 3365, 3385, 4102, 4202, 4302; and ART 4372. ART 2325, 2335, and 2336 must be completed prior to enrolling in upper-level art history courses.

**ACCREDITATION**

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

**COURSES IN ART**

**Studio Art (ART)**

**1301 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.

**1321 DRAWING I** 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, 1321, 2312, 2322, 3 hours from 2325, 2335, 2336. Fall.

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

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

**3140 PORTFOLIO ASSESSMENT II** Area studies course for majors only. Progress review and degree candidacy. Issues of health and safety in art and career development. Seminar. Prerequisite: ART 2140. Spring.

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

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

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

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

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

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

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

**3331 ILLUSTRATION II** Major/minor course in an art degree program emphasis. Creation of images inspired by the written word. Studio. Prerequisite: ART 3330. Spring.

**3332 PAINTING I** Area studies course for majors and minors. Problems involving composition and color using various painting techniques and supports. Studio. Prerequisites: ART 1310 and 3 hours drawing. Fall.

**3333 PAINTING II** Major/minor course in an art degree program emphasis. Problems involving composition and color. Studio. Prerequisites: ART 2140, 3332. Spring.

**3334 WATERCOLOR I** Area studies course for majors and minors. Beginning transparent and opaque watercolor painting with emphasis on the transparent. Studies in visual composition. Studio. Prerequisites: ART 1310 and 3 hours drawing. Fall.

**3339 WATERCOLOR II** Major/minor course in an art degree program emphasis. Advanced transparent and opaque watercolor painting. Studio. Prerequisite: ART 3334. Spring.

**3343 PRINTMAKING I** Area studies course for majors and minors. Techniques of printmaking in intaglio, relief, and the lithographic processes. Studio. Prerequisites: ART 1310 and 3 hours drawing. Spring.

**3344 PRINTMAKING II** Major/minor course in an art degree program emphasis. Advanced techniques in etching, lithography, screen printing, relief, and multi-plate color printing. Studio. Prerequisite: ART 3343. Fall.

**3350 FIBERS** An elective in the art program designed for majors and minors. Spinning, natural dyeing, weaving, batik, direct dye processes, and fiber construction. Studio. Prerequisites: ART 2312 and 3 hours drawing. Fall.

**3353 GRAPHIC DESIGN I** Area studies course for majors and minors. Introduction to graphic design. Two- and three-dimensional assignments to provide an overview of the graphic design field. Studio. Prerequisites: ART 1310 and 3 hours drawing. Fall.

**3354 GRAPHIC DESIGN II** Major/minor course in an art degree program emphasis. Using typography as an effective element in visual communication. Studio. Prerequisite: ART 3353. Spring.

**3361 SCULPTURE I** Area studies course for majors and minors. Techniques and materials of three-dimensional art. Studio. Prerequisites: ART 2312 and 3 hours drawing. Fall.

**3362 SCULPTURE II** Major/minor course in an art degree program emphasis. Principles and concepts of three-dimensional form; investigation of structural problems in advanced media. Studio. Prerequisite: ART 3361. Spring.

**3379 CERAMICS I** Area studies course for majors and minors. Clay construction utilizing basic hand building and wheel techniques. Studio. Prerequisites: ART 2312 and 3 hours drawing. Fall, spring.

**3390 CERAMICS II** Major/minor course in an art degree program emphasis. Experimental projects in construction, glaze formulation, decorating techniques, and firing procedures. Studio. Prerequisite: ART 3379. Spring.

**4140 PORTFOLIO ASSESSMENT III** BA degree art majors only. Senior project. Exhibit and comprehensive review. Seminar. Prerequisite: ART 3140. Fall, spring.

**4150 BFA PROFESSIONAL ORIENTATION** BFA degree majors only. Preparation for entry into the community of artists and artist-teachers as a graduate student or career professional. Seminar. Prerequisite: Departmental approval. Fall, spring.

**4160 BFA EXHIBIT** BFA degree majors only. Exhibit and comprehensive review. Seminar. Prerequisite: Departmental approval. Fall, spring.

**4325 DRAWING IV, EXPERIMENTAL** Course required of all BFA degree majors. Experimental drawing using a variety of media with emphasis on developing personal styles of expression. Studio. Prerequisites: ART 2140, 3324. Fall.

**4328 GRAPHIC DESIGN III** Major/minor course in an art degree program emphasis. Development of multiple-piece product lines. Studio. Prerequisites: ART 2140, 3353, 3354 with grades of B or above and permission. Fall.

**4335 GRAPHIC DESIGN IV** Major course in a BFA degree emphasis. Professional portfolio and personal resume. Studio. Prerequisites: ART 3353, 3354, 4328 and permission. 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. Survey of women artists from the Renaissance to the contemporary. Lecture. Spring.

**3385 ART OF INDIA** Area studies course for majors and minors. Survey of the important artistic monuments of India, especially the temples and sculptures related to Buddhism and Hinduism. Lecture. Spring.

**3395 ART OF JAPAN** Area studies course for majors and minors. Survey of major Japanese monuments and styles with consideration of the social, political, and religious currents formulating the arts. Lecture. Fall.

**4372 SENIOR SEMINAR** Major/minor course in an art degree program emphasis. Advanced topics in contemporary art. Seminar. Prerequisites: Senior standing and 9 hours of art history. Fall.

**4102, 4202, 4302\* DIRECTED STUDY** Non-studio course in an art degree program emphasis for majors only. Advanced study and research beyond available courses. Seminar. Prerequisite: Departmental approval. Fall, spring.

**4390 SPECIAL STUDIES** Art honors course for majors only. Independent study for the exceptional student in research and/or studio art. Seminar. Prerequisite: Invitation of the art faculty. Fall, spring.

\* **NOTE:** A maximum of 6 hours of variable credit courses in art may be applied to the BA degree, 12 hours to the BFA degree.



# MUSIC

**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.

## BACCALAUREATE DEGREES



### *Bachelor of Music in Music Education*

*Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Music (450-3163), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

The BM degree in music education requires successful completion of 130 hours, including (1) the general education component; (2) degree/licensure requirement; (3) degree requirements in music as listed below; and (4) ensemble experiences as required.

BM in music education: keyboard majors must pursue a choral or an instrumental-degree track.

### **Applied Music ..... 12-14 hours**

Major applied: Instrumental: 10 hours; vocal: 12 hours; recital or project.

Minor applied: 2 hours.

### **Theory ..... 18 hours**

MUS 1230, 1231, 1232, 1233, 2430, 2431, 3210 or 3230 or 4210 or 4215.

### **History and Literature ..... 9 hours**

MUS 1340, 3302, 3303.

### **Pedagogy ..... 9-11 hours**

Vocal majors: MUS 1141, 1142, 3305, 3306, 4160, 4201.

Keyboard majors: MUS 2150, 3305, 3306, 4201, 4202.

Instrumental majors: MUS 2150, 2170/2171, 2180/2181, 2199, 3305, 3304 or 3308, 4201. (Instrumental majors must have 1-2 hours of brass class, and 1-2 hours of woodwind class. Brass majors will take 2 hours of woodwinds. Woodwind majors must have 2 hours of brasses. Percussion majors will take 2 hours of woodwinds and 2 hours of brasses.)

### **Technology ..... 2 hours**

MUS 2210.

### ***Bachelor of Music in Performance***

The degree of Bachelor of Music with a major in performance requires successful completion of 133 hours, including (1) the general education component; (2) degree requirements as listed below; and (3) ensemble experience as required.

### **Applied Music ..... 26 hours**

Major applied: 23 hours; minor applied: 2 hours; recital: 1 hour.

### **Theory ..... 24 hours**

MUS 1230, 1231, 1232, 1233, 2430, 2431, 3210, 3230, 3233, 4210 or 4215.

### **History and Literature ..... 11 hours**

MUS 1340, 3302, 3303; keyboard majors: MUS 4203; vocal majors: MUS 4205.

**Pedagogy ..... 2-4 hours**

MUS 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*.

**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.

**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 satisfactory audition is essential to determine acceptability to the department.
4. Audition for placement in piano. Piano proficiency is not required for admission. All students will be placed in an appropriate level of piano instruction. Time and date of placement tests will be sent to all students who pre-register.
5. Complete the Basic Musicianship Evaluation, a brief test of rudimentary music skills. Both the audition and the Basic Musicianship Evaluation are vital in the screening process; it is desirable that these take place on campus. This will permit personal interviews and opportunities for applicants to meet students and faculty and to familiarize themselves directly with UCA.

**Admission as a Transfer from Another College**

1. Same as admission from high school.
2. Examinations in theory and music literature/history are required for placement or verification of transfer credits in music courses.

**PERFORMANCE REQUIREMENT**

**Ensemble Requirements**

Every student registered for applied instruction will participate in one large conducted ensemble, as assigned by the faculty. The chair, in consultation with the appropriate applied faculty member and ensemble director and with the student, may substitute a small conducted ensemble or waive the requirement.

**Specific Requirements**

**BM in Music Education**

- Woodwind, brass, and percussion majors must participate in the university band a minimum of six semesters including three semesters of marching band.
- String majors must participate in the university orchestra a minimum of six semesters.

- 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 the additional required number in a subsequent semester.

### **Piano Skills Development**

Piano Classes I and II are remedial in nature and do not count toward music degrees. An entering student with adequate preparation will normally enter into Piano Class III. All students enrolled as music majors are required to demonstrate their competence in keyboard skills. This requirement may be met by choosing one of the following options:

1. Completion of Piano Class IV with a grade of C or higher will demonstrate achievement of the skills guidelines. (The final exam for Piano IV will be equivalent to the respective guideline statement for each area of emphasis. Piano IV may be repeated until the requirement is satisfied.)
2. Any student may be exempted from Piano Class III and/or IV by successfully demonstrating the skills contained in the guidelines for each level for which exemption is sought in a specially scheduled hearing before the piano proficiency committee.
3. All keyboard majors will complete requirements contained in the guidelines through participation in a weekly lab session during the freshman year. Non-keyboard majors with sufficient keyboard background to qualify may also complete the requirements through the lab session (admittance for non-keyboard majors is by a screening audition at the beginning of the school year).

### **Jury Examinations**

At the end of each semester all music majors and minors are required to perform a jury examination in the major and minor applied area of study. Juniors and seniors who have given a satisfactory recital may be exempted from the jury. Examination requirements for persons enrolled in applied music on an elective basis are determined by the individual teacher. The specific jury repertoire require-

ments are determined by the individual teachers or general areas such as voice or piano.

### **Recitals**

All music majors, except first-semester freshmen, are required to appear in a general recital at least once each semester. During the senior year, an individual, full-length recital is required. However, at the discretion of the major professor, and after consulting with the department chair, music education majors may give this recital jointly with another music major or may substitute an alternative project. A bachelor of music candidate must, in addition to the senior recital, give a half recital during the junior year. Students planning recitals must confer early in the semester with the department chair.

## **MUSIC FEES**

For individual instruction in piano, organ, voice, band, orchestral instruments, and piano class:

Two half-hour lessons or one-hour lesson per week, \$40.00 per semester.

One half-hour lesson per week, or two class lessons per week, \$25.00 per semester.

For practice facilities:

*Piano, voice:* \$4.00 per semester for the first daily practice hour, \$2.00 for each additional hour; \$2.00 per summer term of five weeks for the first 2 daily practice hours, \$2.00 for each additional hour.

*Organ:* \$8.00 per semester for the first daily practice hour, \$2.00 for each additional hour; \$3.00 per summer term of five weeks for the first practice hour, \$1.50 for each additional hour.

*Orchestra and band instruments:* \$3.00 per semester for the first daily hour of practice, \$1.00 for each additional hour; \$2.00 per summer term of five weeks for 2 hours of daily practice, \$1.00 for each additional hour.

## **CREDIT HOURS IN APPLIED MUSIC**

Credit in applied music is computed as follows:

One semester hour credit: one half-hour lesson per week, six hours of practice per week.

Two semester hours credit: one-hour lesson or two half-hour lessons per week, twelve hours of practice per week.

Four semester hours credit: one-hour lesson or two half-hour lessons per week, 18 hours of practice per week (applicable to BM students).

## 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, melodic and harmonic analysis. Part-writing using root position and first inversion triads, and related keyboard assignments. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: MUS 1300 Fundamentals of Music or scoring a passing grade on the fundamentals of music entrance examination. Fall.

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

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

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

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

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

**2430 THEORY III** Core requirement of all music majors. Continuation of Harmony II and Ear Training II. Borrowed chords, Neapolitan

triads, augmented sixth chords, chromatic mediants, sonata and rondo forms. Ear training, sight-singing, keyboard harmony, and composition projects are correlated with written work. Methods of instruction include lecture, discussion, and laboratory. Prerequisites: MUS 1232, 1233. Fall.

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

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

**3211 COUNTERPOINT II** Upper-division elective for music majors. A continuation of Counterpoint I. More in-depth study of canon, chorale prelude, and fugue. Methods of instruction include lecture, discussion, and laboratory. Prerequisite: MUS 3210. Spring.

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

**3233 COMPOSITION** Required of all performance majors. Composing music for instrumental and vocal media, working from smaller to larger forms, and focusing on twentieth century styles and materials. Methods of instruction are lecture and music composition. Prerequisite: MUS 3210. Spring.

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

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

## ***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.

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

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

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

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

**4205 VOCAL LITERATURE** Required for BM performance voice majors and optional for other voice or piano majors. Solo vocal literature from the Renaissance to the present. Emphasis on style, interpretation, and historical perspective to equip performance majors with the basic content of their profession. Instruction by lecture, listening, and student individual research. Prerequisite: Upper-division status. Spring.

**4301 JAZZ: HISTORY OF AN AMERICAN ART FORM** Upper-division general education elective. Historical survey of the evolution of jazz from African slave songs to the present. Recognition of jazz styles through listening, studying, and research. Methods of instruction are lecture and listening to music. Prerequisite: Upper-division status. On demand.

**4304 HISTORY OF ROCK MUSIC** Upper-division general education elective. Historical survey of rock music, including its antecedents, its development as a musical style, and its influences on modern American culture. Lecture-based with emphasis on the development of listening and communication skills. Prerequisite: Upper-division status. Spring.

## ***Pedagogy***

**1141 DICTION FOR SINGERS I** Requirement for all BM vocal majors. Pronunciation skills in German and Italian as encountered in the standard repertory of vocal music. Study of the aural and written phonetic, spelling, and articulation skills necessary to successfully study, perform, or teach the literature of the vocal and choral singing instrument. Teaching procedures include lecture, listening, motor and aural exercises, and classroom and individual presentation. Fall.

**1142 DICTION FOR SINGERS II** Required for all BM vocal majors. Pronunciation skills in French, Spanish, English, and Russian. Study of the aural and written phonetic, spelling, and articulation skills necessary to successfully study, perform, or teach the literature of the vocal and choral singing instrument. Teaching procedures include lecture, listening, motor and aural exercises, and classroom and individual presentations. Prerequisite: MUS 1141. Spring.

**2150 STRING CLASS** Required of all BM education instrumental music majors. Elective for BM performance instrumental majors who want to learn to play a string instrument other than their major instrument. Pedagogy course which introduces students to the teaching and performing of all standard string instruments, string pedagogy, string terminology, knowledge of the instruments, and their maintenance and purchase. Method of instruction includes diagnostic and corrective procedures. Prerequisite: None for BM education majors, consent of the instructor for BM performance majors. Fall, spring.

**2391 MUSIC FUNDAMENTALS FOR CLASSROOM TEACHERS** Preparatory course for all education majors (classroom teachers) who plan to teach P–6 but who do not have a strong background in the rudiments of music. Reviews music fundamentals including notation, keys, scales, intervals, meter, rhythm, melody, and harmony in preparation for MUS 3392 Music in the Elementary School. Methods of instruction are lecture and working theoretical exercises using the computer. Minimal computer skills will be helpful. Fall, spring.

**2170 BRASS CLASS I** Required for all BM education instrumental majors. Course emphasizes learning basic performance skills and pedagogical techniques for the five major brass instruments in preparation for teaching. Method of instruction includes diagnostic and corrective procedures. Students are required to perform on instruments, to participate in teaching exercises, and to accumulate a permanent file of information. Fall.

**2171 BRASS CLASS II** A continuation of Brass Class I. Spring.

**2180 WOODWIND CLASS I** Required for all BM education instrumental majors. Course emphasizes learning basic performance skills and pedagogical techniques for the five major woodwind instruments in preparation for teaching. Method of instruction includes diagnostic and corrective procedures. Students are required to perform on instruments, to participate in teaching exercises, and to accumulate a permanent file of information. Fall.

**2181 WOODWIND CLASS II** A continuation of Woodwind Class I. Spring.

**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 elective for BM education majors. Problems in music education to be determined by student(s) enrolled. Each instructor determines the method of teaching. On demand.

**4310 SPECIAL STUDIES IN MUSIC** Available for exceptional BM majors to investigate a selected area within their field, to complete and present an honors research paper or an honors recital which includes a written report. To be done with the approval of the departmental honors committee and the supervision of music faculty member. Prerequisite: Invitation from the music honors committee. Fall, spring.

**4315 INTRODUCTION TO KODALY** First course toward the 18-hour certification in the Kodaly Concept. Introduces students to the basic pedagogical practices used in the primary grades. Other courses include Kodaly Concept I, II, III (2 hrs. credit for each), Solfege I, II, III (2 hrs. for each) and Folk Song Research (3 hrs. credit), and Early Childhood Methods and Materials or Children's Choral Music (2 hrs. each); one or the other must be selected). Workshop format. Prerequisite: Bachelor's degree. Summer.

**4121, 4221, 4321 WORKSHOP IN MUSIC** Available as an elective for BM majors. Problems in music to be determined by the student(s) enrolled. Maybe taken for 1 to 3 credits. Each instructor determines the method of teaching. On demand.

### *Performance*

**11B1–41B8 UNIVERSITY BAND** By audition. Official band for all school athletic events. Divided into two concert bands during spring term. Some instruments available to ensure proper instrumentation. Each semester, summer on demand.

**11C1–41C8 UNIVERSITY SINGERS** Choral singing group open to all non-majors as an elective. Performs a variety of choral literature for all eras and serves to acquaint the singers with many vocal styles and forms and is presented through rehearsals twice weekly. Prerequisite: Consent of the conductor. Fall, spring.

**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

# SPEECH, THEATRE, AND MASS COMMUNICATION

**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 generation of communicators, theatre artists, writers, and broadcast professionals. To this end, it provides quality classroom instruction, rigorous studio training, and practical experiences in speech, theatre, telecommunications, and journalism. The department is committed to fostering a personal, creative environment in which students learn from mentors as they mutually explore the nature of the mass media and aesthetic experience, thereby contributing to a deeper appreciation of the human experience. The department also provides broadcast, print, and artistic experiences that expand and enhance the cultural lives of the people of Arkansas.

To accomplish its mission, the department

1. Creates an intellectual community dedicated to free speech and the professional development of the individual student as communicator and audience.
2. Creates an artistic community that is dedicated to the artistic and personal development of the individual student and that prizes the artist's and communicator's unique voice and vision.
3. Delivers curricula that allow students
  - to develop an appreciation of and theoretical foundation for the study and practice of speech, theatre, journalism, and telecommunications,
  - to understand historical perspectives and contemporary practices in the disciplines,
  - to improve their skills,
  - to develop ethical and aesthetic standards, and
  - to contribute to the future development of speech, theatre, and mass communication.
4. Maintains a quality faculty of educators and artists who demonstrate excellence in the classroom and in their creative and scholarly pursuits.
5. Provides optimal facilities and resources to support a dynamic learning environment.
6. Presents public performances, broadcasts, publications, and education initiatives that address the cultural and educational needs of Arkansans.

## PURPOSES

Study in the department incorporates five areas—public relations, speech communication, theatre, telecommunications, and journalism—each contributing toward a general goal of developing the student as a human being, citizen, and artist. Specifically, the department encourages capable students to enter the professional fields, including teaching and graduate study.

## PROGRAMS

The department offers majors in speech and theatre and in mass communication with the Bachelor of Arts or Bachelor of Science degrees. Emphases in public relations, speech communication, and theatre are available in the speech and theatre major. Emphases in journalism and telecommunications are available in the mass communication major. Minor programs in speech, theatre, and mass communication are also offered. Students seeking the baccalaureate degree in mass communication (telecommunications or journalism emphasis) must complete 40 semester hours and an internship or co-operative education experience. Students seeking the baccalaureate degree in speech and theatre (speech communication or theatre emphasis) must complete 40 semester hours. Students seeking the baccalaureate degree in the speech-public relations emphasis must complete 44 semester hours and an internship or co-operative education experience. Students seeking the baccalaureate degree in mass communication-telecommunications emphasis must complete an internship or co-operative education experience. In all degree programs, students must complete 12 hours of upper-division credit. Additionally, a grade of C or better in each departmental and interdisciplinary lower-division core course and in SPTA 1300 and WRTG 1310 and 1320 must be earned before enrolling in upper-division courses. Individual degree plans must be approved by the faculty advisor. A minor in the department requires 26 hours, with a minimum of six upper-division hours.

Students majoring or minoring in speech, theatre, or mass communication will also successfully complete application courses as specified by the emphasis program. Students enrolling in application courses or in programs sponsored by the department must, in addition to meeting standards of performance, be in good academic standing in the university. Students majoring or minoring in the department may count a course only once as a requirement or elective.

Incoming freshmen who declare majors in the department must enroll in the 1000-level practicum course during their first semester.

Students majoring in mass communication must develop satisfactory computer skills within their first year at the university. Students selecting the emphasis in journalism should be proficient in the use of a 35mm camera before they graduate.



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**

In addition to university requirements and the program core 12 hours, students will take MCOM 2305 and 3300. Students will complete 18 hours of electives from MCOM 2301, 2302; SPTA 2332; MCOM 2334, 3305, 3307, 3310, 3365, 4313, 4323, 4331, 4333. In addition to these courses, students are required to complete a minimum of four 1-hour courses in print media applications at the appropriate level and complete an internship or co-operative field experience.

**Telecommunications Emphasis ..... 40 hours**

In addition to university requirements and the program core 12 hours, students will take MCOM 1363, 2366, and 3365. Students will complete 15 hours of electives from MCOM 2301, 2302, 2305; SPTA 2331 (or 3332); MCOM 2332, 3307, 3363, 3364, 4313, 4315, 4323. In addition to these courses, students are required to complete a minimum of four 1-hour courses in electronic media applications at the appropriate level and complete an internship or co-operative field experience.

**Mass Communication Minor ..... 26 hours**

Students seeking a minor in mass communication are required to complete MCOM 1300, 2300, 1362, 3301, and at least 2 hours of credit in print media applications or electronic media applications. The remaining 12 hours are to be selected in consultation with a departmental advisor from courses listed under the emphasis areas or journalism of telecommunications.

**Education Degrees—Speech/Theatre and Journalism**

Students who wish to be certified to teach in speech/ theatre should complete the program of study for the BA/BS degree in theatre. Candidates must complete additional courses in mass communication, speech, and oral interpretation. Students who seek to be certified in journalism should complete the BA/BS degree requirements in journalism. Additional coursework in education will be required.

*Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Speech, Theatre, and Mass Communication (450-3162), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

**MAJOR/MINOR POLICY**

Students who elect to major in one of the emphasis areas of speech, theatre, or mass communication may also elect to minor in the other degree program. For example, a student who majors in speech and theatre with an emphasis in theatre may elect to minor in mass communication. Students who choose this option must select a minor advisor from the appropriate minor program. Students who major in speech-public relations may not minor in speech or mass communication. Additionally, common course work from degree programs may not be used to satisfy more than one requirement.

NOTE: Courses may not be used to satisfy more than one departmental requirement.

**COURSES IN SPEECH COMMUNICATION AND THEATRE (SPTA)**



**11D1–41D1 COMMUNICATIONS APPLICATIONS** Practical experience in speech and public relations. Each level may be repeated for a total of 2 hours credit each. Fall, spring.

**1122–4122 THEATRE PRODUCTION AND PERFORMANCE** Practical experience in theatre production and performance. Each level may be repeated for a total of 2 hours credit each. Fall, spring, summer.

**1131 PARLIAMENTARY PROCEDURE** Basic elements of managing effective meetings using parliamentary procedure. Leadership and participation in group meetings in ordinary situations of daily life. Practical application course for anyone involved in running group meetings on or off-campus. On demand.

**1300 BASIC ORAL COMMUNICATION** Study, application, and evaluation of principles of organization, evidence, reasoning, critical thinking, verbal and nonverbal behavior, interpersonal communication, public speaking, and small group interaction in the oral communication setting. The emphasis will be on meeting the individual needs of students through individualized instruction using communication experiences. Fall, spring, summer.

**1310 PUBLIC SPEAKING** Introduction to effective presentational speaking in informative, persuasive, and special occasion contexts. Prerequisite: SPTA 1300. Spring.

**1350 INTRODUCTION TO THEATRE** Examination of the structure of the theatrical experience from the viewpoints of performance, production, and audience. Fall.

**1360 TEXT ANALYSIS** An introduction to textual analysis for the theatre student and artist that studies the dramatic text as a foundation for production. Students will learn to analyze play progression from moment, observe how character and action are conveyed, and understand how play structure reveals content and stage directions stimulate the dramatic imagination. Spring.

**1370 VOICE AND DICTION** Introduction to the use of a phonetic alphabet, study of the processes of vocal production, and recognition of controllable elements in speech. Drill work for improvement of pronunciation and articulation control. Not a course in public speaking. Fall.

**2300 THEATRE APPRECIATION** Awareness and appreciation of theatre art and its place in contemporary human culture. Incorporates study of theatrical styles, history, theory, and practice using live and recorded performances. May not be credited toward a major or minor in theatre. Fall, spring, summer.

**2302 ARGUMENTATION AND DEBATE** Communication applications requiring the use of elements of critical thinking including evidence and reasoning. Communication contexts ranging from speeches of advocacy to formal debate. Prerequisite: SPTA 1300 or 1310. On demand.

**2305 INTRODUCTION TO PUBLIC RELATIONS** An introduction to the principles necessary to develop professionals to serve in the public relations industry. The course is designed to improve creative writing skills necessary in public relations activities and to develop an understanding and appreciation of the responsibilities held by public relations practitioners. Fall, spring.

**2310 ADVANCED PUBLIC ADDRESS** An applied course aimed at developing a level of excellence in different types of public speaking. Includes analysis of subjects, selection and arrangement of materials, audience adaptation, and oral style in a variety of speaking situations. Prerequisites: SPTA 1300 and 1310. Spring, odd years.

**2311 BUSINESS AND PROFESSIONAL SPEAKING** An applied course aimed at developing a level of excellence in speech communication skills in business and professional settings. It surveys modern theory as well as listening, negotiation, influencing others, instructional communication, and barriers to effective business and professional speaking. This course is both theory and performance based, and students will make several presentations. Prerequisites: SPTA 1300 and 1310. Spring, even years.

**2315 COMMUNICATION THEORY AND RESEARCH** Experimental and behavioral methodologies of communication research and theory development. Students will become acquainted with research methods and reporting by engaging in elementary experimental communication research methods. Prerequisite: SPTA 1300. Fall.

**2320 STAGE MAKEUP** Techniques and principles of makeup for the theatre. Emphasis is on character makeup and the effects of light, shade, and color on the face. Opportunities for realization of designs in UCA theatre productions. Spring.

**2325 FUNDAMENTALS OF THEATRICAL DESIGN** Introduction to critical methodology in the conception, creation, and presentation of scenic, lighting, and costume design. Spring.

**2331 STAGECRAFT** Basic elements of the theatrical setting leading to competency in the procedures involved in the construction, painting, and dressing of scenery and the use of the theatre building. Fall.

**2341 SMALL GROUP COMMUNICATION** Learning how to work effectively in groups. The dynamics of cooperative communication situations and skills associated with interpersonal relations and group goal achievement. Special emphasis on critical thinking, decision making, and problem solving. Prerequisite: SPTA 1300. Fall.

**2380 ORAL INTERPRETATION** Appreciation and oral communication of the emotional and intellectual content of literature by the performance of prose, poetry, and dramatic material. On demand.

**2390 ACTING I** An introduction to the physical, intellectual, and emotional aspects of acting, including basic movement, script analysis, and characterization techniques. Spring.

**3300 GROUP PERFORMANCE OF LITERATURE** Factual, narrative, and dramatic prose and types of poetry for effective oral reading in

group interpretation and reader's theatre. Prerequisite: SPTA 2380 or consent of instructor. On demand.

**3301 ORGANIZATIONAL COMMUNICATION** Insight into traditional and modern concepts of channels of communication in simple and complex organizations. Emphasis on informal and formal group dynamics, interpersonal relationships, leadership, communication theory, and creativity. Prerequisite: SPTA 1300. Fall.

**3303 GENDER COMMUNICATION** Focus on gender differences in communication. Elements of language, cultural perspective, gender attitudes, and communication process and outcomes in theory and practice. Prerequisite: SPTA 1300. Spring.

**3307 INTERPERSONAL COMMUNICATION** Investigates major theories and research about communicating with others. Focus on choices and consequences in communication. Students will develop and improve interpersonal skills as applied to their personal and professional lives. Prerequisite: SPTA 1300 or consent of instructor. Fall, odd years.

**3310 COSTUME DESIGN** Theory and technique of costume design. Course includes study of historical styles, costume construction, and technology. Fall.

**3321–3321 COMMUNICATIONS INTERNSHIP** Emphasizes print and broadcast journalism performed for the mass media, theatre production work performed for independent production companies, and speech communication applied for agencies outside the university. Interns are supervised by department faculty. The internship also applies to students seeking on-the-job experience in public relations. Credit is not included for the major 40 hours, nor does it satisfy the departmental 12 upper-division hours. Prerequisite: Consent of department chair. Fall, spring, summer.

**3312 PERSUASION** Recent research and techniques in persuasion in rhetoric, social psychology, advertising, public opinion, and evidence in relation to attitude change. Prerequisite: SPTA 1300 or consent of instructor. Fall.

**3324 DRAMATIC THEORY AND LITERATURE** Readings in classical and contemporary dramatic theory and literature. Spring, even years.

**3325 THEATRE HISTORY** Historical survey of theatre from origins to the present. The course includes study of architecture, theatrical conventions, acting styles, and noted theatre artists. Fall, odd years.

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

**3391 ACTING II** Conventions and techniques of various periods and styles of acting. Prerequisite: SPTA 2390 or consent of instructor. Fall.

**3392 ETHNIC LITERATURE INTERPRETATION** Research and performance of literature from various ethnic groups using oral inter-

pretation to suggest intellectual, emotional, and sensory experiences inherent in the literature. On demand.

**4301 ADVANCED SMALL GROUP COMMUNICATION** Focuses on critical thinking and reflective thinking problem-solving agendas. The course is designed to expand students' knowledge of the concepts and theories of group communication. Emphasis is placed on the task, leadership, and interpersonal skills of group participants. Students will work on a professional, senior-level project. Prerequisite: SPTA 2341 or consent of instructor. Spring, odd years.

**4311 RHETORIC** Principal rhetorical theories from ancient to modern times. Application of these theories to the analysis of texts throughout history as well as modern social movements, mass communication, etc. Prerequisite: SPTA 1300. Spring.

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

**4316 SPECIAL TOPICS IN COMMUNICATION** In-depth study of specialized areas of communication studies. Various topics offered on a rotating basis to cover important communication topics not part of the regular course offerings. Prerequisite: SPTA 1300. On demand.

**4320 PLAY DIRECTING** Selection, casting, and rehearsal of plays. Students will be required to direct one-act plays. Prerequisite: SPTA 2390 or consent of instructor. Spring.

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

**4322 THEATRE WORKSHOP** Advanced training in directorial methods and organization, performance techniques, and experimental theatre practices. Summer only.

**4340 SCENE DESIGN** Theories and styles of scenic design and their application to the individual play. Prerequisite: SPTA 2331 or consent of instructor. Spring, odd years.

**4360 DIRECTING FORENSIC ACTIVITIES** Preparing materials for the school forensic program. Considers both curricular and co-curricular programs. (Offered to the teacher candidate.) On demand.

**4367 FIELD EXPERIENCE IN COMMUNICATION** Field experience in mass communication, theatre, or speech communication. Credit is not included for the major 40 hours, nor does it satisfy the departmental 12 upper-division hours. Prerequisite: Senior standing and consent of department chair. Fall, spring, summer.

**4370 SPECIAL PROBLEMS** Limited to juniors or seniors in either major or minor program for individual study. Credit is not included for the major 40 hours, nor does it satisfy the departmental 12 upper-division hours. May be used for honors studies. Prerequisite: Consent of department chair only. On demand.

## COURSES IN MASS COMMUNICATION (MCOM)

**1121–4121 PRINT MEDIA APPLICATIONS** Laboratory practice and experience in producing the student newspaper or yearbook. Each level may be repeated for a total of 2 hours credit each. Fall, spring.

**1123–4121 ELECTRONIC MEDIA APPLICATIONS** Practical experience working in the studios of KUCA-FM or Channel 6 TV as a staff member. Each level may be repeated for a total of 2 hours credit each. Fall, spring, summer.

**1300 INTRODUCTION TO MASS MEDIA** Historical and modern relationships between mass media and society and various theories of mass communication. Fall, spring.

**1362 TELECOMMUNICATION PRACTICES AND PROCESSES** This course provides a foundation for more advanced courses in electronic media production, broadcast management, and mass communication theory and research. Emphasis on telecommunication terminology and history, production theory and practice. Prerequisite: MCOM 1300. Fall, spring.

**1363 AUDIO PRODUCTION** Basic audio production techniques. Attention will be given to audio systems, consoles, tape equipment, and audio processing equipment. Prerequisite: SPTA 1362. Fall.

**2300 BEGINNING REPORTING AND EDITING** News gathering and reporting skills. Involves writing and editing various types of news stories for publication. Prerequisite: WRTG 1320. Fall, spring.

**2301 BROADCAST ANNOUNCING** Emphasizes training in vocal techniques needed in radio and TV announcing, including work with IPA as a means of voice improvement. Attention is given to types of announcing careers with an audition tape being prepared for career opportunities ahead. Spring.

**2302 MEDIA HISTORY** Concentrated study of the development of American mass media from the colonial period to the present. Spring, even years.

**2305 BASIC PRESS PHOTOGRAPHY** Beginning course in theoretical and applied aspects of photojournalism. Includes study of cameras and basic photographic techniques, with an emphasis on black and white darkroom procedures. Assignments will cover making newsworthy and feature photographs for publication. Students will also learn the legal aspects of photojournalism, including libel, privacy, and copyright law. Students must provide an adjustable 35mm or larger camera. Fall.

**2332 HISTORY OF THE CINEMA** History of filmmaking from the first laboratory experiments of the movies to the nineties. Movie greats such

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, lighting, and electronic graphics. Prerequisite: MCOM 1362. Fall, spring.

**3122, 3222, 3322 DIRECTED STUDY IN COMMUNICATION** Involves concentrated study of a topic or topics to be determined by individual student need. Prerequisite: Consent of instructor. On demand.

**3300 ADVANCED REPORTING AND EDITING** Continued development of reporting skills through the study of specialized beats, including city, county, and state government. Involves study of the organization and functions of state and local government. Students should be available for off-campus assignments. Prerequisite: MCOM 2300. Fall, spring.

**3301 MEDIA LAW AND ETHICS** Legal boundaries within which print and electronic professionals must operate and ethical issues in media careers. Prerequisite: MCOM 1300 or consent of instructor. Fall.

**3305 PUBLICATION DESIGN AND MAKEUP** Beginning course in using desktop publishing software and related hardware to achieve electronic pagination. Emphasis on newspaper, magazine, and brochure production. Prerequisite: MCOM 2300 or consent of instructor. Fall.

**3307 MEDIA THEORY AND RESEARCH** Theories concerning the effects of mass media and media-related research techniques, findings, and criticism. Prerequisite: MCOM 1300 or consent of instructor. Spring.

**3310 WRITING FOR PUBLIC RELATIONS** Written aspects of public relations, including press releases, leaflets, newsletters, and magazines. Basic concepts and practices for public relations practitioners and functions of public relations. Prerequisite: MCOM 2300 or consent of instructor. Fall, even years.

**3363 ADVANCED AUDIO TECHNIQUES** This course provides in-depth study and practice of advanced audio production techniques. Students will further develop skills in radio production as well as audio production techniques for video, film, dramatic presentations, music, and multi-media. Prerequisite: MCOM 1363 or consent of instructor. Spring, odd years.

**3364 ADVANCED VIDEO TECHNIQUES** This course is designed to encourage the student to develop proficiency in advanced production processes used in the planning, execution, and construction of video segments. The primary activity in the course will be the application of these processes in video post-production and field production projects. Prerequisite: MCOM 2366 (grade of C or better or consent of instructor). Spring.

**3365 BROADCAST MANAGEMENT** The role of the manager in broadcast production, economics, advertising, and regulation. Prerequisite: SPTA 1362 or consent of instructor. Spring.

**4311 WRITING FOR ELECTRONIC MEDIA** Seminar in writing creative material and commercial copy for electronic media. All types of continuity news and dramatic material will be included. Prerequisite: MCOM 1362. Spring, even years.

**4315 DIRECTING AND PRODUCING FOR THE ELECTRONIC MEDIA** This course acquaints the student with the roles of the director and producer in video production. The course will demonstrate how one assumes the role of media producer and the concepts and procedures necessary for the successful supervision of an electronic media project from the idea stage to completion. Prerequisite: MCOM 3364 (with a grade of C or better or consent of instructor). Fall, even years.

**4320 SEMINAR IN MASS COMMUNICATION** Various topics relevant to media careers. Prerequisite: Consent of instructor. On demand.

**4331 IN-DEPTH AND COMPUTER-AIDED REPORTING** In-depth reporting on public issues, including some reporting for publication. The course undertakes the techniques of investigative and computer-assisted reporting. Students should be available for off-campus assignments. Prerequisite: MCOM 3300. Spring.

**4332 WRITING EDITORIALS AND REVIEWS** Various approaches to persuasive writing, with final products including newspaper editorials, opinion columns, and reviews of movies, television programs, stage plays, and books. Prerequisite: MCOM 3300 or consent of instructor. Fall, odd years.

**Note**

**COMMUNICATION INTERNSHIP:** see SPTA 3221, 3321.

**FIELD EXPERIENCE IN COMMUNICATION:** see SPTA 4367.

**SPECIAL PROBLEMS:** see SPTA 4370.

# WRITING AND RHETORIC

**Chair and Associate Professor:** Dr. Harvey, 450-3344  
**Professor:** Mr. Wright  
**Associate Professors:** Dr. Morgan  
**Assistant Professors:** Dr. Burley, Dr. Jeffery, Dr. Roche, Dr. Selting, Dr. S. Vanderslice  
**Lecturer:** Dr. Wu  
**Instructors:** Ms. Anderson, Ms. Gallaher, Mr. Gifford, Mr. Hankiewicz, Ms. Heard, Ms. Johnson, Dr. Lance, Ms. Mongno, Ms. Scott, Dr. Stengel, Dr. J. Vanderslice

### PURPOSES

The Department of Writing and Rhetoric offers general education courses in college writing; supports the university's efforts to stress writing and thinking skills across the curriculum; offers courses in composition, linguistics, and rhetorical theory and advanced courses in creative, professional, technical, and academic writing; and offers a major and minor in writing. All students must complete six hours of writing courses to satisfy the general education requirement in composition.

### BACCALAUREATE DEGREE: BACHELOR OF ARTS

The degree of BA with a major in writing requires successful completion of 124 hours, including (1) the general education component, (2) the degree requirement, (3) major requirements courses, and (4) a minor as planned with the student's minor advisor.

**Major in Writing ..... 36 hours**

WRTG 2310, 2320, 3301, 3305, 3310; SPTA 3312, 4311, and 15 hours of electives selected by major advisor.

**Minor in Writing ..... 24 hours**

WRTG 2310, 3300, 3301, 3305, 3310, and 9 hours of electives selected by minor advisor.

### RESOURCES

#### *The University Writing Center*

The University Writing Center, located in Irby 118, provides students with resources for improving their writing. Students may schedule time with a trained writing assistant and use the center's computers and writing materials to develop a writing assignment for any course at the university. The center also provides handouts explaining documentation styles, common problems in college writing, and electronic research. Students may also request training on using e-mail, the Internet, and the university local area net. Call 450-5123 for appointments.

#### *Online Writing Lab (OWL) and Webster Helpline*

The OWL website available at [www.uca.edu/writing/OWL](http://www.uca.edu/writing/OWL) provides students and faculty with information about the writing center and offers links to other writing pages containing condensed information about common grammar and punctuation problems, documentation styles, and various elements of college writing. The University Writing Center also operates a grammar helpline, Webster, to answer questions about basic grammar, usage, and style. Webster can be accessed during the writing center's regular hours of operation via e-mail or phone: [Webster@cub.uca.edu](mailto:Webster@cub.uca.edu) or 450-3334.

#### *The Writing Across the Curriculum Initiative*

The University Writing Across the Curriculum (WAC) Initiative encourages the integration of activities in courses across the disciplines that help students to develop their writing skills as tools both for learning and for communication. The Department of Writing and Rhetoric and the Writing Center offer a number of resources to assist the UCA teaching community in achieving this integration. These include professional development forums where interested instructors can work with writing-across-the-curriculum specialists, brown bag discussions that focus on more specific WAC topics, consultants from the Department of Writing and Rhetoric who may meet with individual departments and faculty members upon request, and extensive Writing Center support. For more information on this initiative, call 450-3340.

#### *The Central Arkansas Writing Project*

The Central Arkansas Writing Project is one of four Arkansas sites of the National Writing Project, a program which seeks to improve student writing in grades K–12. It has been recognized by the American Association for Higher Education and the Carnegie Foundation for the Advancement of Teaching as an "outstanding and nationally significant example of how schools and colleges can collaborate to improve American education." Each year the site offers a five-week summer writing institute for K–12 teachers across subject matter areas during which they study contemporary composition theory, experience the act of writing, devise effective pedagogy, and earn 6 graduate credits. Graduates of this institute become teacher-consultants able to provide inservice workshops to local schools in teaching writing-across-the-curriculum and join a network of colleagues who meet regularly to renew and update skills and knowledge.

### COURSES IN WRITING (WRTG)

**1310 INTRODUCTION TO COLLEGE WRITING** Part of the general education program and required of all students during the first semester they are eligible to enroll. This course introduces students to the writing process, focusing on audience, invention, and arrange-

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.

**4320 SEMINAR IN NON-WESTERN RHETORICAL TRADITIONS** Elective for writing majors and minors and other students interested in persuasion. Provides students with an understanding of the impact of rhetorical traditions on written and oral communications in non-Western cultures. Prerequisite: WRTG 1320. Fall.

**6610 ADVANCED TEACHING OF WRITING** The Central Arkansas Writing Project Summer Institute for the Teaching of Writing is a special, selective, five-week intensive program that gathers exceptional K–12 teachers from the Central Arkansas region to study writing and the teaching of writing from published research and guest presentations on classroom practices. Prerequisite: Graduate standing and acceptance into workshop. Summer.

## TRANSITIONAL COURSES (UNIV)

**1300 TRANSITIONAL WRITING** An introduction to the skill needed in college-level writing. Required of entering students with an English ACT below 19. By state law, this course does not provide credit toward a degree. Fall, spring.

**1301 TRANSITIONAL READING** An introduction to the strategies needed in college-level reading. Required of entering students with a composite ACT below 19. By state law, this course does not provide credit toward a degree. Fall, spring.

# COLLEGE OF HEALTH AND APPLIED SCIENCES

**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 Degrees***

Doctor of Physical Therapy (DPT) (entry-level and advanced)  
Doctor of Philosophy in Physical Therapy (PhD)

### ***Non-degree Programs***

Pre-Cardio Respiratory Care  
Pre-Dental Hygiene  
Military Science



# FAMILY AND CONSUMER SCIENCES

**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, 3370, 3372, 3380, 4301, 4321, 4325, 4351, 4374.

Supporting requirements to meet the academic requirements of the American Dietetic Association: PSYC 1300 and 2330; BMED 4325 or substitute computer course; FACS 3456; CHEM 1402, 2450, and 3300; SOC 1300; BIOL 2405 and 2411 or substitutes with the approval of the department chair. A minor is not required for the dietetics emphasis.

Eligibility to take the registration exam of the American Dietetic Association requires the BS degree plus completion of an approved internship or pre-professional practice program (AP4). Contact the department chair for further information.

### Interior Design Specialization ..... 52 hours

Major requirements: FACS 2360, 2390, 2391, 2392, 3300, 3305, 3315, 3325, 3335, 3340, 3341, 4230, 4305, 4320 and 4600.

Supporting requirements: FACS 1300 or 3372, 2351; ART 1310, 1321, and 3 hours art history; FACS 3365 and 3375. A minor is not required for the interior design specialization.

### General Family and Consumer Sciences ..... 43 hours

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. The internship is to be completed in two summers. The first year includes 11 weeks of instruction in community nutrition and administrative dietetics. Summer school during the second year includes 12 weeks in therapeutic nutrition. Practice sites include various health care facilities in the central Arkansas area. (See *Graduate Bulletin* for specific course requirements.)

Dietetic Internship Entrance Requirements:

- Baccalaureate degree.
- Statement of certification regarding completion of American Dietetic Association approved didactic program in dietetics.
- Official transcript(s) of course work from all colleges and universities attended.
- Minimum of 3.0 GPA (on a 4.0 scale).
- Work experience in nutrition-related area.
- Completed dietetic internship application by February 1.

**MASTER'S DEGREE**

See *Graduate Bulletin*.

**COURSES IN FAMILY AND CONSUMER SCIENCES (FACS)**

***Nutrition and Food Sciences Courses***

**1300 NUTRITION IN THE LIFE CYCLE** A required course for the dietetic and general FACS major, nursing, and other health-related majors. The course includes a study of principles and application of nutritional information for personal living and relevant information for the health professional. Lecture/discussion. Fall, spring.

**2310 FOOD SCIENCE** A required course for the dietetic and general FACS major. The course includes basic scientific principles applied to food preparation and an analysis of nutritional value, cost, and service of food. Lecture/discussion and laboratory. Prerequisite: FACS 1300. Fall, spring.

**2311 MEAL MANAGEMENT** A required course for the dietetic and general FACS major. The course focus is the planning, buying, preparing, and serving family meals, food for special occasions, and entertaining. Lecture/discussion and laboratory. Prerequisite: FACS 1300. Fall, spring.

**2350 COMMUNITY NUTRITION** A required course for the dietetic major. A study of cultural and scientific aspects of food and nutrition as applied to the individual and community. Lecture/discussion. Prerequisite: FACS 1300. Fall, spring.

**3370 ADVANCED NUTRITION** A required course for the dietetic major. A study of nutritive needs of the individual with emphasis on the roles of nutrients in the body. Family nutrition and the periods of pregnancy and lactation, infancy, childhood, adolescence, and adulthood are included. Lecture/discussion. Prerequisite: FACS 1300, CHEM 1402, or consent of instructor. Fall, spring.

**3380 FOOD ECONOMICS** A required course for the dietetic major. A study of problems confronting the dietitian in regard to quantity, quality, processing methods, intended use, and cost of food production. Attention is given to methods of food preservation, preparing food in quantity, organization, and evaluation. Lecture/discussion workshop. Prerequisite: FACS 2310 and BIOL 2411. Fall.

**4315 SPORTS NUTRITION** A required course for the KPED athletic training program and a recommended elective for the dietetic and FACS major. The course examines the nutritional needs of exercising individuals with a focus on wellness. Lecture/discussion. Prerequisite: FACS 1300 and 3370 or KPED 4300. Fall, spring.

**4321 NUTRITIONAL SERVICES ADMINISTRATION** A required course for the dietetic major. The course focus is on food service operations relating to management principles, methods of control, sanitation, and safety and training of food service personnel. Lecture. Prerequisite: FACS 3380. Spring.

**4325 MEDICAL NUTRITION THERAPY I** A required course for the dietetic major. A study of nutrition as a medical specialty from the perspective of disease prevention and treatment, including nutritional assessment, patient interviewing strategies, medical terminology, and charting techniques. Lecture and laboratory. Prerequisite: FACS 3370, CHEM 2450, and BIOL 2405. Fall.

**4351 EXPERIMENTAL FOOD SCIENCE** A required course for the dietetic major. The course includes a study of physical and sensory evaluation and experimentation with properties of fats, carbohydrate mixtures, protein foods, and food additives. Lecture and laboratory. Prerequisite: FACS 2310, 3370 and 4301, CHEM 2450 or equivalent. Spring.

**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 basic principles and skills for parent effectiveness including application of fundamental tasks and issues in child rearing to unique characteristics and developmental stages of children. Lecture with directed observation assignments. Fall, spring.

### *Consumer Education and Resource Management Courses*

**3311 RESOURCE MANAGEMENT** A required course for the dietetic and general FACS major. The course focus is on the decision-making process and management principles applied to consumer activities and personnel management for the dietitian. Observation and analysis of diverse family practices and food service administrators is required. Lecture with required directed observations. Prerequisite: FACS 2310 or permission of instructor. Fall, spring.

**3372 CONSUMER EDUCATION** A required course for the dietetic and general FACS major. A study of consumer problems related to management of family resources and the role of family and consumer sciences in assisting families manage personal finances. Lecture/discussion with computer laboratory assignments required. Fall, spring.

### *Family and Consumer Sciences Education*

**3456 METHODS IN VOCATIONAL FAMILY AND CONSUMER SCIENCES** A required course for the dietetic and general FACS major. The course will emphasize techniques of teaching, curriculum planning, using instructional technology, guidelines for presentations and educational objectives. Lecture/discussion with directed observation required. Fall, spring.

**4355 METHODS AND MATERIALS IN VOCATIONAL FAMILY AND CONSUMER SCIENCES** A required course for the general FACS major. The course will focus on the development and evaluation of secondary curriculum and teaching materials. Examines student organizations, extended learning experiences, and the public relations and community service programs as an important component of the secondary programs. Workshop. Prerequisite: FACS 3456. Fall.

### *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** A required course for the interior design major. The course includes advanced studies in residential design layouts, applied advanced design methodology, and design communication. Studio. Prerequisite: FACS 3335 with a grade of C or better, ART 1310 and 1321. Fall.

**3325 COMMERCIAL INTERIOR DESIGN** A required course for the interior design major. The course includes studies in commercial and business furniture selection and arrangement, textiles, accessories, space distribution, cost estimating, programming, post-occupancy evaluation, and applied graphic communication. Studio. Prerequisite: FACS 3315 and 3335 with a grade of C or better. Fall, spring.

**3335 DESIGN COMMUNICATION** A required course for the interior design major. The course includes media and techniques of graphic communication as an aid to the interior design process. Studio. Prerequisite: FACS 2392 with grade of C or better, ART 1310 and 1321. Fall.

**3340 HISTORY OF FURNITURE I** A required course for interior design majors. The course includes a comparative analysis of interiors and their furnishings as related to the development of Western civilization (Ancient–Victorian). Lecture. Prerequisite: FACS 2390 with grade of C or better. Fall.

**3341 HISTORY OF FURNITURE II** A required course for interior design majors. The course includes a comparative study of the modern movement including interiors, furnishings, and their designers (1850–present). Lecture. Prerequisite: FACS 3340 with grade of C or better. Spring.

**4305 ADVANCED INTERIOR DESIGN STUDIO** A required course for interior design majors. Includes advanced studies in commercial and residential interiors. Selected aspects of office systems, forms and logistics of money and materials, as they apply to the practice of interior design. Studio. Prerequisite: FACS 3315, 3325, and 3335 with grade of C or better. Fall, spring.

**4320 INTERIOR DESIGN SENIOR SEMINAR** A required course for interior design majors. The course is an in-depth study of the interior design profession and its relationship to other design professions. Workshop. Prerequisite: FACS 4305 with a grade of C or better. Spring.

### *General Courses*

**3173 SPECIAL PROBLEMS IN FAMILY AND CONSUMER SCIENCES** An elective course for all areas of FACS. Individual work under supervision in any one of the specialization areas of family and consumer sciences. Workshop or directed observation. Fall, spring.

**4301 RESEARCH IN FAMILY AND CONSUMER SCIENCES** A required course for the dietetic major. The course includes a study of techniques for problem design, analysis, and evaluation in one of the specialization areas of family and consumer sciences. Workshop. Prerequisite: Senior standing. Fall, spring.

**4600 INTERNSHIP** A required course for the interior design major and an elective for other FACS specialization areas. The course is an internship experience in family and consumer sciences under professional and educational supervision. Internship. Prerequisite: Senior standing and consent of department chair. Fall, spring, summer.

**4130, 4230, 4330 WORKSHOP** An elective course for any specialization area in FACS. Workshops are planned and conducted to cover varying areas of interests and needs. Prerequisite: Senior standing. On demand.

# HEALTH SCIENCES

**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 (HSCI 4600) requires an overall GPA of 2.5.

#### Major in Health Education

**Health Education Requirements ..... 36 hours**

H ED 3300, 3301, 3320, 4300, 4331, 4370, 4600; 12 hours to be selected from the following and approved by the major advisor: H ED 2201, 2320, 3305, 3315, 4301, 4302, 4303, 4312, 4343.

**Related Requirements ..... 11 hours**

BIOL 2405, 2411, SPCH 1310.

#### Emphasis in Prevention

**Health Education Requirements ..... 34 hours**

H ED 3120, 3300, 3301, 3315, 3320, 4300, 4301 or 4302, 4312, 4332, 4600; 6 hours from the following: H ED 2320, 3305, 4301 or 4302, 4343, 4370.

**Related Requirements ..... 11 hours**

BIOL 2405, 2411, MKTG 4360 or 4361.

#### Health Occupations Option

**Health Education Requirements ..... 31 hours**

H ED 3300, 3305; H SC, 4210, 4600; 12 hours to be approved by major advisor.

**Related Requirements ..... 17 hours**

BIOL 2405, 2411, ADSE 4357; 6 hours from the following: BMED 4325, 4374, 4375.

#### Minor in Health Education

This minor is coupled with the P-8, 7-12 BS kinesiology and physical education major. For more information, contact the Chair of the Department of Health Sciences (450-3194) or of the Department of Kinesiology and Physical Education (450-3148).

**Health Education Requirements ..... 26 hours**

H ED 2201, 2320, 3300, 3301, 3305, 4300, 4303, 4312, 4331.

**Related Requirements ..... 8 hours**

BIOL 2405, 2411.

### *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 Health Sciences (450-3194), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

### *Bachelor of Science in Health Sciences*

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

**Health Science Core ..... 15 hours**

BIOL 1440, CHEM 1550 or 1442, PHYS 1410, and Statistics (SOC 2321 or PSY 2330 or MATH 2311 or BUS 2330).

#### Gerontology Emphasis

**Degree Requirements ..... 30 hours**

H ED 2310, 4600; PSYC 3360, 4352; SOC 3381, 4331, 4334; and 6 hours determined by the department chair.

**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); CHEM 1451 or 2450; PHYS 1420; PSYC elective; CSCI 1300 or INFO 2343, H SC 3123, WRTG 3310.

**Related Requirements** ..... 21 hours

Choose 21 hours from the following courses:

ACCT 4325; H ED 3320, 4302, 4343; MKTG 4360; KPED 3363, 4300; PSYC 4320, 4325; SPTA 4316; SOC 3350, 3381, 4331, 4334, 4335.

**Electives** ..... 21 hours

ACCT 4325; H ED 3320, 4203, 4343; MKTG 4360; KPED 3363, 4300; PSYC 4320, 4325; SPTA 4316; SOC 3350, 3381, 4331, 4334, 4335.

**Additional Electives**

(8 hours must be upper-division) ..... 13 hours

**TOTAL** ..... 124 hours

**MASTER'S DEGREE**

See *Graduate Bulletin*.

**COURSES IN HEALTH EDUCATION (H ED)**

**1200 SAFETY EDUCATION** Required core course for the major in health education, health occupations option. Students acquire knowledge and skills in accident prevention and general safety education. Lecture/discussion, projects. On demand.

**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.

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

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

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

**2320 MENTAL HEALTH** Elective. Principles of mental health information applied to everyday living. Lecture/discussion, projects. Fall, spring.

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

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

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

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

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

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

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

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

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

**4301 HEALTH EDUCATION IN THE MEDICAL CARE SETTING** Core for BS health sciences, emphasis in health services administration. Application of principles and theories of individual and group education in a medical care setting. Lecture/discussion, projects. Spring.

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

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

# KINESIOLOGY AND PHYSICAL EDUCATION

**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

*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).*

## 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***

### ***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. Test items include pull-ups for men and modified pull-ups for women, 1.5 mile run, sit and reach, sit-ups, and measurement of body composition. The test is administered Monday through Friday by appointment in the Human Performance Laboratory located in Farris Center, room 109A. An exercise prescription is developed for any student



failing to meet minimum standards on all items. Students may re-test 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 Physical Education (450-3148), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

Any student who receives a major and minor in fields other than kinesiology and physical education and who is interested in coaching football, basketball, volleyball, baseball, gymnastics, or track in public schools, must receive a coaching endorsement from the Arkansas Department of Education.

To be eligible for the endorsement the following requirements must be met:

1. Hold or be eligible to hold the standard six-year teaching certificate.
2. Complete the following courses: KPED 2381, 3331, 4351, and two of the following coaching courses KPED 3210, 3211, 3212, 3213, or 3214.

**Bachelor of Science in Athletic Training**

The degree of Bachelor of Science with a major in athletic training requires successful completion of a minimum of 126 hours, including (1) the general education component; (2) the degree component; and (3) major and related requirements listed below. A minor is not required. A grade of C or better is required in all kinesiology course work, and a grade of B or better is required in designated athletic training course work.

**Fitness Test.** All athletic training majors must complete a physical fitness test administered by the department. Test items include pull-ups for men and modified pull-ups for women, 1.5 mile run, sit and reach, sit-ups, and measurement of body composition. The test is administered Monday through Friday by appointment in the Human Performance Laboratory located in Farris Center, Room 109A. An exercise prescription is developed for any student failing to meet minimum standards on all items. Students may re-test 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 athletic training 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 athletic training majors must complete and present a showcase portfolio to the athletic training faculty during the semester the student applies for graduation.

**Proficiency.** All athletic training majors will be expected to show proficiency in one sport before they will be approved for graduation. One proficiency will be required from the following course work: KPED 2214, 2215, 2216, 2224, 2225 or 2226. 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.

**Athletic Training ..... 36 hours**

KPED 1350, 3340, 3341, 3350, 3351, 4210, 4220, 4305, 4315, 4325, 4330, 4350; 2 hours selected from the following courses: KPED 2214, 2215/2216, 2224, 2225, and 2226.

**Related Requirements** ..... **23 hours**

BIOL 1441, 2405, 4351; FACS 1300, 4315; H ED 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 may be obtained by calling or writing to the Director of the Athletic Training Education Program, (501) 450-3148.

Minimum admission criteria include (1) minimum cumulative grade point average of 2.7; (2) completion with a minimum grade of C. WRTG 1310 and 1320; MATH 1390; BIOL 1440; H ED 2201; KPED 1320, 1350; PSYC 1300; (3) complete application; and (4) complete extemporaneous writing assignment and oral interview. A more detailed list of criteria should be obtained from the Director of the Athletic Training Education Program.

Applicants who believe that they have been treated differently from other candidates in admissions decisions are to contact the department chair for information about the appeals process. All appeals begin at the department level.

Upon acceptance into the athletic training education program, students are to present documentation of 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 August: (1) American Heart Association CPR course certification or American Red Cross CPR course certification valid through the school year; (2) TB skin test results valid through the school year; and (3) current health/hospitalization insurance.

The current edition of the *Athletic Training Student Handbook* specifies the rules, regulations, and policies that apply to all UCA undergraduate athletic training students. It is the responsibility of the student to know and follow the most recent policies and procedures.

**Retention Policy**

Retention in the University of Central Arkansas Athletic Training Education Program is based on the following criteria:

1. Minimum cumulative grade point average of 2.7 on a 4.0 scale.
2. Minimum grade point average of 3.0 on a 4.0 scale in all KPED course work.
3. Minimum of C on related course work.
4. Minimum Semester Performance Evaluation of 2.0 on a 4.0 scale.

Failure to meet retention criteria will place the student on probationary status for a maximum of two semesters. If the criteria are not met at the conclusion of the probationary period, the student will need to reapply for admission into the Athletic Training Education Program. A more detailed list of criteria and explanation of the probationary period is available in the current edition of the *Athletic Training Student Handbook*.

**Program Accreditation**

The Joint Review Committee on Educational Programs in Athletic Training (JRC-AT) has approved candidacy Status for the athletic training program. Candidacy does not guarantee accreditation. The program anticipates submission of the self-study to the JRC-AT by September 2000. Submission of this document does not guarantee that the program will be accredited by the time students complete the program.

**MASTER'S DEGREE PROGRAM**

See *Graduate Bulletin*.

**UNIVERSITY FITNESS PROGRAM**

The fitness center is available to students, faculty, and staff. A variety of exercise equipment is available (e.g., stationary bicycles, rowing machines, treadmills, cross-country skier, free weights, and universal weights). Special events such as cholesterol screenings, fun runs, and exercise programs monitored by personal trainers are offered as part of the services of the fitness center. The fitness center is under the supervision of the Department of Kinesiology and Physical Education.

**ACTIVITY COURSES (KPED)**

The Department of Kinesiology and Physical Education offers activity courses that meet three hours per week for half of the semester and carry one semester hour of credit. The courses are organized into five categories: dance, lifetime fitness, aquatics, outdoor leisure pursuits, and sports and games. Letter grades are based on physical, cognitive, and psycho-social behaviors demonstrated by students. Activity courses are designed to (1) offer regulated and supervised activities to improve and maintain physical fitness and sports skills, (2) teach activities that may serve as lifetime sports and recreation during leisure time, and (3) develop a positive attitude toward the need for and benefits of a physically active life.

**Dance**

**1100 BEGINNING BALLROOM DANCE** An elective kinesiology and physical education course. Students are introduced to the basic skills and techniques of the fox trot, waltz, cha cha, swing, and tango. Activity and lecture. On demand.

**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, 2213, 2214, 2215 or 2216, 2222, 2223, 2224, 2225, 2226, 2227, 2228, and 2229. Refer to proficiency requirements outlined for each degree program and emphasis.**

**2212 TEACHING BOWLING AND GOLF** An elective individual-sport course for kinesiology and physical education majors. Course content is presented in two half-term sessions. The course emphasizes the rules, skills, and strategies used to participate in and teach bowling and golf. Lecture, activity, micro-teaches, and a 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Fall, spring, summer.

**2213 TEACHING ARCHERY AND BADMINTON** An elective individual-sport course for kinesiology and physical education majors. Course content is presented in two half-term sessions. The course emphasizes the rules, skills, and strategies used to participate in and teach archery and badminton. 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, spring.

**2214 TEACHING TENNIS** 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 tennis. 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, spring, summer.

**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 kinesiology majors, athletic training majors, and students seeking a coaching endorsement. This course is a directed study of human anatomy with its adaptations to biomechanical principles. In-depth study of the skeletal and articulation system and the muscular and nervous systems along with other key anatomical structures and functions. Lecture and use of anatomical computer software by students. Prerequisite: BIOL 1400 or 1410 with a grade of C or higher. Fall, spring, summer.

**2395 COMPUTER APPLICATIONS IN PHYSICAL EDUCATION AND SPORT** An elective course for kinesiology and physical education majors, athletic training majors, and students seeking a coaching endorsement. This course provides students with the opportunities to develop competency in the selection and use of computer hardware and software pertinent to health and physical education, exercise science, athletic training, coaching, and sport. Lecture and computer laboratory sessions. Laboratory sessions are designed to provide direct experience with keyboard data entry using specialized software as well as the use of peripheral equipment. Prerequisites: Sophomore classification and major status or consent of instructor. On demand.

**3210 COACHING BASEBALL** An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course emphasizes techniques of effective coaching, a study of the fundamentals of baseball, the use of progressive drills, and team development for competitive baseball programs. Lecture, simulations, discussion, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

**3211 COACHING FOOTBALL** An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course emphasizes techniques of effective coaching, the use of progressive drills, a study of the basic offensive and defensive formations and patterns, and team development for competitive football programs. Lecture, simulations, discussion, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand. Fall, summer.

**3212 COACHING BASKETBALL** An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course emphasizes effective coaching techniques, the use of progressive drills, a study of the basic offensive and de-

fensive patterns, and team development for competitive basketball programs. Lecture, simulations, discussion, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Fall, summer.

**3213 COACHING TRACK** An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course emphasizes effective coaching techniques, the use of progressive drills, and team development for competitive track and field programs. Lecture, simulations, discussion, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. Spring.

**3214 COACHING VOLLEYBALL AND GYMNASTICS** An elective course for kinesiology and physical education majors and students seeking a coaching endorsement. This course emphasizes effective coaching techniques, the use of progressive drills, a study of the basic offensive and defensive volleyball patterns, and team development for competitive volleyball and gymnastics. Lecture, simulations, discussion, and a required 10-hour field experience scheduled outside of class meeting times. Prerequisite: Major status or consent of instructor. On demand.

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

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

**3316 CURRICULUM** A required course for kinesiology and physical education majors. This course is designed to familiarize students with basic curricular theories, models, trends, and issues and the relationship between curriculum and instructional strategies. Lecture, discussion, student presentations, professional portfolios, use of e-mail and internet, and required field experiences. Prerequisites: KPED 2300, 2340, and 2381; junior classification; and major status or consent of instructor. Every semester.

**3320 DEVELOPMENTALLY APPROPRIATE MOTOR SKILLS AND FITNESS ACTIVITIES FOR P-4 LEARNERS** A required course for P-4 childhood education majors and taken as part of the academic content block during the junior year. The course emphasizes the development of skills, knowledge, disposition and strategies in activities appropriate for P-4 elementary physical education programs.

Lecture, cooperative learning, peer micro teaches, and a required field experience including observation, participation and teaching in elementary physical education under the direct supervision of an elementary physical education specialist. Prerequisites: Admission to teacher education; KPED 1320, 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-the-field evaluation of spine injuries). Lecture, discussion, laboratory, and required clinical experiences. Prerequisites: KPED 3331 with a grade of B or higher and admission to the Athletic Training Education Program. Fall.

**3341 ATHLETIC TRAINING CLINICAL EXPERIENCES II A** required course for athletic training majors. This course provides student athletic trainers with knowledge of care, treatment, and rehabilitation of injuries occurring in throwing sports. Student athletic trainers will gain experience in recognizing overuse conditions and knowledge of biomechanical concepts associated with sports such as baseball, softball, and tennis. Lecture, discussion, laboratory, and clinical experiences. Prerequisites: KPED 3331 with a grade of B or higher and admission to the Athletic Training Education Program. Fall, spring.

**3350 EVALUATION TECHNIQUES FOR ATHLETIC TRAINERS: UPPER EXTREMITY A** required course for athletic training majors and an elective for students with an allied health career interest.

This course provides students with comprehensive knowledge of evaluation and injuries of the upper extremity. Students will conduct initial clinical evaluations and develop assessment skills of upper extremity athletic injuries. Lecture, discussion, and required laboratory experiences. Prerequisite: KPED 3331 with a B or higher. Spring.

**3351 EVALUATION TECHNIQUES FOR ATHLETIC TRAINERS: LOWER EXTREMITY A** required course for athletic training majors and an elective for students with an allied health career interest. This course provides students with comprehensive knowledge of evaluation and injuries of the lower extremity. Students will conduct initial clinical evaluations and develop assessment skills of lower extremity athletic injuries. Lecture, discussion, and required laboratory experiences. Prerequisite: KPED 3331 with a grade of B or higher. Fall.

**3363 ADAPTED PHYSICAL EDUCATION A** required course for kinesiology and physical education majors. This course provides basic information on disabling conditions and how to provide adapted physical education programs based upon an individual's assessed needs. Lecture, discussion, and a required 10-hour clinical and field experience scheduled outside of class meeting times. Prerequisites: KPED 2300, 2340, and 2381; and major status or consent of instructor. Fall, summer.

**3382 MECHANICAL KINESIOLOGY A** core course required of kinesiology and physical education majors and athletic training majors. This course is designed to develop students' understanding of the mechanical principles that govern the effectiveness with which physical education, fitness, and sport skills are performed. Lecture, discussion, and individual research projects. Prerequisites: PHYS 1400; KPED 2300, 2340, and 2381 with a grade of C or higher; and major status or consent of instructor. Fall, summer.

**4210 MODALITIES FOR ATHLETIC TRAINERS A** required course for athletic training majors and an elective for students with an allied health career interest. This course is designed for students to attain knowledge in the application and use of current modalities in treating athletic injuries. Students will explore the areas of wound healing, and thermal, electrical, and mechanical agents as well as establishing a theoretical foundation for selecting a treatment protocol. Lecture, discussion, case-study presentations, and required hands-on laboratory experiences. Prerequisite: KPED 3331 with a grade of B or higher. Spring.

**4220 EXERCISE REHABILITATION IN ATHLETIC TRAINING A** required course for athletic training majors and an elective for students with an allied health career interest. This course is designed for students to attain an advanced level of competency in orthopedic anatomy and examine current knowledge and procedures in sports rehabilitation. Lecture, discussion, research project, and required hands-on laboratory experiences. Prerequisite: KPED 3331 with a grade of B or higher. Fall.

**4230 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION A** core course required of kinesiology and physical education majors

and athletic training majors. This course focuses on the foundations, theories, principles, and measurement of physical fitness and in particular the means for conducting fitness testing and providing exercise prescriptions. Students will learn how to screen subjects, assess physical fitness levels, and prescribe appropriate exercise training based upon an individual's goals and assessed needs. Lecture, activity, simulations, and required field experiences. Prerequisites: KPED 2300, 2340, 2381, and 4300; and major status or consent of instructor. Fall, spring, summer.

**4300 EXERCISE PHYSIOLOGY** A core course required of kinesiology and physical education majors, and athletic training majors and an elective for students with an allied health career interest. This course emphasizes the study of muscular activity and the associated energy systems, the general effects of exercise on physiologic processes and body functions, and the adaptations that occur as a result of physical exercise training. Lecture, laboratories, specialized computer software and a research project. Prerequisites: KPED 2300, 2340, 2381, and 3382 or consent of instructor. Fall, spring, summer.



**4305 ATHLETIC TRAINING CLINICAL EXPERIENCE IV** A required capstone course for athletic training majors. This course is designed to afford the student an internship experience in the private sector of athletic training. Practical experiences will be directed and assigned by the clinical instructor. These activities may include school visitations, injury management, surgery observations, clinical evaluations, and rehabilitation. Internship under the direct supervision of select clinical instructors and a university supervisor. Prerequisites: KPED 3350, 3351, and 4325 with a grade of B or higher; and admission to the Athletic Training Education Program. Spring.

**4310 METHODS AND MATERIALS OF SECONDARY PHYSICAL EDUCATION** A required course for kinesiology and physical education majors. This course helps students develop their knowledge and understanding of the planning, organization, and teaching included in physical education at the middle school and secondary school levels. Lecture, cooperative learning, physical activities, peer micro teaches, and observation, participation, and teaching in physical education classes under the direct supervision of a certified physical education specialist. Prerequisites: KPED 2300, 2340, 2381, and 3316; and admission to teacher education. On demand.

**4315 PROGRAM DEVELOPMENT IN ATHLETIC TRAINING** A required course for athletic training majors and an elective for students with an allied health career interest. Current trends in athletic training practice settings will be explored through discussion and lecture. Students will develop techniques for disseminating information on injury prevention and management. Further study will include academic preparation, the process of certification and licensure, and continuing education for the Certified Athletic Trainer. Lecture/discussion, computer applications. Prerequisites: KPED 3331 with a grade of B or higher. Spring.

**4320 MEASUREMENT AND EVALUATION IN HUMAN PERFORMANCE** A required core course for kinesiology and physical education majors and athletic training majors. This course focuses on the

analysis of theoretical and practical issues involved in evaluation of motor performance, behavior and knowledge. Interpretation of research with an emphasis on statistical techniques is included. Lecture, discussion, laboratory experiences, and use of statistical analysis software. Prerequisites: KPED 2300, 2340, 2381; junior or senior classification; and major status or consent of instructor. Spring, summer.

**4325 HEAD, NECK, AND SPINE INJURY MANAGEMENT** A required course for athletic training majors and an elective for students with an allied health career interest. This lecture/laboratory course is designed to provide students with a knowledge of evaluation and injuries of the head, neck, thoracic region, and spine. Students will conduct initial clinical evaluations and develop assessment skills of athletic injuries. Lecture, discussion, and required hands-on laboratory experiences. Prerequisite: KPED 3331 with a grade of B or higher. Fall.

**4330 ADMINISTRATION AND MANAGEMENT OF ATHLETIC TRAINING** A required course for athletic training majors and an elective for students with an allied health career interest. Management theories and strategies used in athletic training facilities will be explored. Specific topics include employment process, budgeting and inventory, documentation, facilities design, occupational health and safety, use of computers in the training room, and reducing liability through application of management theories. Lecture/discussion, computer applications. Prerequisite: 3331 with a grade of B or higher. Fall.



**4350 ATHLETIC TRAINING CLINICAL EXPERIENCES III** A required course for athletic training majors designed to provide students with experience in the direct care of athletes involved in running sports (e.g., cross country, soccer, and basketball). Students will explore mechanisms, evaluations, treatments, and rehabilitation of lower extremity injuries through a seminar format and practical experiences. Lecture, discussion, laboratory, and required clinical experiences. Prerequisites: KPED 3331 with a grade of B or higher; and admission to the Athletic Training Education Program. Fall, spring.

**4351 PHYSICAL EDUCATION ADMINISTRATION** A course required of kinesiology and physical education majors and those seeking a coaching endorsement. This course is designed to cover the organization, planning, implementation, and administration of physical activity, sport, and exercise science programs in educational, clinical, corporate, and community settings. Topics include the arrangement of units within the program, the process of responsibility of leadership, public relations, budgets, and facilities. Lecture, discussion, case studies, and use of specialized computer software. Prerequisites: KPED 2300, 2340, and 2381; junior or senior classification; and major status or seeking a coaching endorsement. Fall, spring.

**4363 EVALUATION AND ASSESSMENT IN ADAPTED PHYSICAL EDUCATION** An elective course for kinesiology and physical education majors. The course focuses on the development of evaluation and assessment skills and exposure to specific research questions in the field of adapted physical education. Lecture, discussion, case studies, and required field experience. Prerequisite: KPED 2300, 2340, and 2381;



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, or athletic training under the supervision of a selected faculty member. Honors course. The primary instructional method is a mentor-protégé format. Prerequisites: minimum cumulative and departmental grade point average and consent of instructor and chair regarding selected topic. On demand.

**4395 SPORT IN AMERICAN SOCIETY** An elective course for kinesiology and physical education majors and athletic training majors. This

course emphasizes sport within a sociological context. Theories of sport and society will be examined to analyze and explain various relationships existing between sport and American society. Particular attention is directed toward sport and social groups, processes, forces, and institutions. Prerequisite: Junior or senior classification. On demand.

**4171, 4271, 4371 WORKSHOP IN KINESIOLOGY AND PHYSICAL EDUCATION** Specific topics/problems in kinesiology and physical education with emphasis on current trends in physical education, exercise science and athletic training. Primary instructional strategies will vary depending on topic. Variable credit (1–3 hours). On demand.

Note: Bowling and golf classes will be held at commercial establishments. Therefore, an additional fee will be charged.

# MEDICAL TECHNOLOGY

**Advisor:** Dr. Pierce, 450-5558

## PROGRAM

Medical technology is a profession that is practiced almost exclusively in hospitals or diagnostic clinics. These specialists perform the laboratory tests ordered by physicians and are the only laboratory technicians who are qualified to work independently of supervisory personnel. Upon completion of the professional program, the graduate is eligible to take various certification examinations required for licensure.

The Department of Health Sciences, in cooperation with Baptist Health, offers a Bachelor of Science degree in medical technology. Three years of this program are taken on the UCA campus, and the fourth is completed in the hospital-associated teaching laboratories.

## BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

Requirements for the degree are as follows:

1. Completion of a minimum of 84 semester hours described below with at least a 2.0 GPA is necessary for application to the professional curriculum. 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 medical technology. In all cases students will be required to complete a total of 124 hours with a minimum of 30 hours of residence credit.
2. Acceptance into the clinical program in medical technology at Baptist Health.
3. Completion of the professional curriculum with a minimum GPA of 2.0.

The curriculum for medical technology is as follows:

<b>Preprofessional Curriculum</b> .....	<b>SCH</b>
The general education component .....	47
Specified general education and other required courses:	
MATH 1390 or above .....	3
CSCI 1300 or INFO 1343 .....	3
BIOL 1440, 1441, 2405, 4525 .....	17
CHEM 1450, 1451, 2401, 3520 .....	17
Electives .....	8
<b>TOTAL</b> .....	<b>84</b>

<b>Professional Curriculum</b> .....	<b>SCH</b>
Immunology .....	1
Immuno-hematology .....	1
Hematology .....	4
Body Fluids .....	1
Clinical Microbiology .....	4
Clinical Chemistry .....	4
Seminar I .....	1
Seminar II .....	1
Management/Education .....	1
Clinical Internship I .....	5
Clinical Internship II .....	5
Clinical Internship III .....	6
Clinical Internship IV .....	7
<b>TOTAL</b> .....	<b>41</b>

## COURSES IN MEDICAL TECHNOLOGY (MD T)

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

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

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

**4121 MANAGEMENT AND EDUCATION TOPICS** Introduction to basic principles of management theory and educational principles.

**4122 BODY FLUIDS** Chemical, physical, and microscopic study of urine, cerebrospinal, and other body fluids.

**4123 IMMUNOHEMATOLOGY** Genetic theory of human blood groups and fundamentals of transfusion practice and component therapy.

**4410 CLINICAL MICROBIOLOGY** Study of human pathogenic microorganisms including bacteria, myco-bacteria, fungi, and parasites, with emphasis on clinical isolation and identification techniques.

**4413 CLINICAL CHEMISTRY** Study of analytes in serum with emphasis on clinical significance, diagnostic utility, and detection methods; includes immunoassay and toxicology.

**4423 HEMATOLOGY** Study of hematopoiesis, anemias, leukemias, hemoglobinopathies, coagulation, and principles of hematological testing.

**4510 CLINICAL INTERNSHIP I** Clinical training in the following areas of the hospital laboratory: hematology/coagulation, includes operation of instrumentation and quality control practices.

**4512 CLINICAL INTERNSHIP II** Clinical training in the following areas of the hospital laboratory: chemistry and urinalysis, includes operation of instrumentation and quality control practices.

**4611 CLINICAL INTERNSHIP III** Clinical training in the following area of the hospital laboratory: blood bank/serology, includes operation of instrumentation and quality control practices.

**4714 CLINICAL INTERNSHIP IV** Clinical training in the following area of the hospital laboratory: microbiology, includes operation of instrumentation and quality control practices.

## MILITARY SCIENCE

**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 military education requirements prior to commissioning. Each cadet must complete a semester or semester equivalent course in written communications, human behavior, military history, computer literacy, and mathematical reasoning.

## BASIC CAMP

Basic camp is a five-week summer leadership and training exercise that satisfies all ROTC requirements in lieu of the basic course. Completion of this camp enables eligible students to enter the advanced course. Registration is through the military science department during the spring semester. Students are paid while at this camp. There is no military obligation upon completion of the camp. See the military science department for eligibility requirements.

**Minor in Military Science ..... 18 hours**

MILS 3305, 3306, 4307, 4308; HIST 3381; plus 3 hours of electives from one of the following courses: CSCI 1300, 1314, 1470 or higher-level computer science courses.

Prerequisites for acceptance into the military science minor program are

1. Successful completion of the MILS Basic Course (4 semesters) with a military science GPA of 3.00 as a minimum. (Other initial military training may be accepted on a case by case basis by the department chair.)
2. Completion of ENGL 1310 or higher-level course, and completion of MATH 1360 or higher-level course.

## COURSES IN MILITARY SCIENCE (MILS)

### *Basic Courses*

**1101 LEADERSHIP I** Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. Students learn basic army skills such as drill and ceremony, customs and courtesies of the service, wear of the uniform. They are introduced to the leadership development program and small unit tactics in discussion and laboratory. Prerequisite: None. Fall.

**1110 LEADERSHIP II** Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. A continuation of MILS 1101, includes military briefings, writing style, basic map reading and small group day land navigation in discussion and laboratory. Prerequisite: MILS 1101, equivalent credit, or instructor approval. Spring.

**2204 MILITARY ORGANIZATION/TACTICS II** Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. Introduces written military orders, weapons training, advanced map reading, and individual day and night land navigation. Further develops leadership theory and techniques discussed in MILS 1110 in discussion and laboratory. Prerequisite: MILS 1110, equivalent credit, or instructor approval. Fall.

**2213 ORGANIZATIONAL LEADERSHIP** Part of the basic course program and required for all students without Junior ROTC credit, basic military training credit, or prior military service. A continuation of MILS 2204, instruction on squad operations, military tactical missions, planning considerations, and patrol base activities in discussion and laboratory. Prerequisite: MILS 2204, equivalent credit, or instructor approval. Spring.

### *Advanced Courses*

**3305 ADVANCED LEADERSHIP AND TACTICS I** Part of the advanced course program and required of all students pursuing a commission in the US Army. Instruction focuses on preparing students for advanced camp attendance. Students are placed in leadership positions in on campus and field environments, and develop advanced map-reading and navigation skills in discussion and laboratory. Em-

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.

## NURSING

**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

### PURPOSES

The Department of Nursing is committed to enhancing the health of the public through teaching, scholarship (which includes professional practice), and service. This is achieved through offering professional nursing education for undergraduate and graduate students, preparing them to assume basic or advanced practice positions and nursing faculty positions, and providing opportunities for nurses to maintain, improve, and expand their competencies. Graduates of the baccalaureate program are prepared for entry-level professional practice, providing comprehensive nursing care to clients of all age groups in a variety of settings. Graduates have the foundation for graduate study and are prepared for lifelong learning and continued professional development.

### BACCALAUREATE DEGREE PROGRAM

The professional program requires a minimum of six full semesters during the last three years of the student's degree studies. It includes both classroom work and clinical learning experiences in a variety of central Arkansas health care agencies, institutions, and communities. Students are responsible for their own transportation to and from clinical experience.

Upon successful completion of the program, the student is awarded a Bachelor of Science in Nursing (BSN) degree and is eligible to apply to take the Registered Nurse (RN) licensing examination (NCLEX-RN). Per state law, Act 1208 of 1999, persons convicted of certain crimes will not be eligible to take the RN licensure examination.

Based on Arkansas State Board of Nursing rules and regulations, eligible students will be allowed to apply to take the Practical Nurse (LPN) licensing examination (NCLEX-PN) after successfully completing the junior year of the major. Per state law, Act 1208 of 1999, persons convicted of certain crimes will not be eligible to take the LPN licensure examination.

### ARTICULATION/ADVANCED PLACEMENT

LPN/LPTN to BSN, RN to BSN, and RN to MSN tracks are available for students already licensed to practice nursing based on the Arkansas Nursing Articulation Model. Contact the Department of Nursing for information.

### THE HONORS PROGRAM IN NURSING

During the spring semester of the junior year, qualified students are invited to become candidates for departmental honors. The student must have earned at least an overall GPA of 3.3 and a major GPA of 3.5. The honors program offers opportunities to explore special interests in nursing through an independent project. On successful completion of the honors project, the student is eligible to graduate with honors in nursing. If final GPA meets university requirements, this distinction is noted on the student's transcript and diploma and

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 courses. A grade of D, F, or WF in any nursing course or specified non-nursing course may result in a year's delay before the student will be able to repeat the nursing course and/or progress. Readmission is not automatic nor guaranteed and will be contingent upon both program and individual factors.

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.

**3510 PSYCHIATRIC/MENTAL HEALTH NURSING** Required of all students in the second year of the nursing major. The course focuses on nursing theories and practices promoting the mental health of clients 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, PHIL 2325 or 1301, FACS 2341 or PSYC 2370. Pre- or corequisite: BIOL 4311. Fall.

**4114, 4214 SPECIAL STUDIES IN NURSING** These elective courses are given on demand, are varied to meet the needs of nursing students, and may include clinical practice with a preceptor. Prerequisite: Permission of the undergraduate coordinator.

**4210 ADVANCED HEALTH ASSESSMENT** Required of all students in the last year of the nursing major. The course focuses on advanced, comprehensive biophysical and psychosocial health assessments of clients across the life span. Lecture/demonstration and laboratory/clinical experiences. Prerequisites: All junior-level nursing courses, BIOL 4311. Fall.

**4213 RESEARCH IN NURSING** Required of all students in the second year of the nursing major. The course focuses on knowledge and skills related to the utilization of basic research in nursing. Methods of instruction vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: three clinical nursing courses and a basic statistics course (PSYC 2330, SOC 2321, MATH 2311, or PSCI 2312). Spring.

**4220 NURSING IN THE SOCIAL CONTEXT** Required of all students in the last year of the nursing major. Current issues and trends confronting nursing and health care delivery explored from sociopolitical, legal, ethical, and historical perspectives are addressed in the course. Methods of instruction vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: Completion of all junior nursing courses. Fall.

**4305 GERIATRIC NURSING** Required of all students in the last year of the nursing major. The course focuses on nursing practices promoting health of older adults. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: All junior nursing courses and NURS 4213. Fall.

**4314 HONORS IN NURSING** This course is part of the senior honors program in nursing. Prerequisite: Enrollment by invitation. See the section Honors Program in Nursing above. Fall.

**4410 NURSING MANAGEMENT OF CLIENTS** Required of all students in the last year of the nursing major. The course focuses on the management of client care in the health system. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: All junior nursing courses and NURS 4213. Fall.

**4510 COMMUNITY HEALTH NURSING** Required of all students in the last year of the nursing major. The course focuses on the delivery of nursing services within the context of public health and community health. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: All junior nursing courses and NURS 4213. Spring.

**4515 NURSING LEADERSHIP AND RESOURCE MANAGEMENT** Required of all students in the last year of the nursing major. The course focuses on nursing leadership in the health care system. Methods of instruction include clinical practice and vary with the nature of learning objectives and the instructor's teaching style. Prerequisites: All junior nursing courses and NURS 4213. Spring.

## OCCUPATIONAL THERAPY

**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

activities to enhance functional performance; administering and interpreting tests such as manual muscle or range of motion tests; and adapting environments for the disabled. These services are provided individually, in groups, or through social systems.

### PURPOSE

The objective of the professional curriculum in occupational therapy is to provide learning experiences that will qualify its graduates to assume the professional responsibilities essential to the practice of occupational therapy. In addition to the attainment of academic knowledge and skill required to perform professional duties, students are directed toward the development of competence for living in our democratic society and for functioning effectively in a society wherein health care practices are rapidly changing.

Occupational therapy is the use of purposeful activity with individuals who are limited by physical injury or illness, psychosocial dysfunction, developmental or learning disabilities, poverty and cultural differences, or the aging process in order to maximize independence, prevent disability, and maintain health. The practice encompasses evaluation, treatment, and consultation. "Occupation" in the title refers to humanity's goal-directed use of time, energy, interest, and attention.

Specific occupational therapy services include teaching daily living skills; developing perceptual-motor skills and sensory integrative functioning; developing play skills and prevocational and leisure capacities; designing, fabricating, or applying selected orthotic and prosthetic devices or selective adaptive equipment; using specifically designed

### PROGRAM

Students who wish to become certified occupational therapists are required to complete the Master of Science degree in occupational therapy. Students are eligible for admission to the MS program if they have completed a Bachelor of Science degree and the required prerequisites. However, students who do not already possess a baccalaureate degree may apply to be admitted to the program and complete the Bachelor of Science degree in health science (occupational therapy emphasis). Students who successfully complete this program and who qualify for admission to the graduate school will automatically be accepted into the Master of Science program in occupational therapy.

#### ***Bachelor of Science Degree in Health Sciences (Occupational Therapy Emphasis)***

The curriculum leading to the bachelor of science in health science (occupational therapy emphasis) requires 25 hours of prerequisite course work, in addition to general education requirements, and 54 hours in the major. A total of 126 hours are required for the degree. The 54 hours in the major are completed over the course of four semesters. The graduate phase of the program involves three additional semesters on campus, plus six months of full-time fieldwork.



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.

All students enrolled in the professional program in occupational therapy are required to maintain a GPA of 2.0 each semester of the professional program; a grade no lower than C must be earned in all occupational therapy required courses.

### Admission Requirements

Students enter the Bachelor of Science in health science (occupational therapy emphasis) program by competitive admission only. Those seeking admission must (a) apply to and meet all admission requirements of the university; (b) complete an application for admission to the occupational therapy department; and (c) meet the following academic and other requirements prior to the beginning of enrollment in the May intersession:

1. Must have earned at least 64 hours (including no more than two physical education activity hours) from a regionally accredited college or university with a minimum GPA of 2.75 in all work attempted.
2. Complete a minimum of 20 hours volunteer or direct work experience in an occupational therapy clinical setting and submit a performance rating sheet from this experience (form and specific instructions available from the occupational therapy department).
3. Complete the following prerequisite course work with a grade of C or better. Students who have not completed all prerequisite courses may apply for admission; however, completion of prerequisites is required prior to formal entry into the program.

**Prerequisites.** Students must choose the following courses to meet prerequisite as well as general education requirements: BIOL 1400 or 1440; CHEM 1402, PSYC 1300, SOC 1300. In addition, the following courses must be taken to complete the remainder of the occupational therapy prerequisite requirements:

Courses .....	SCH
BIOL 2406, 2407, 3370 .....	11
PHYS 1405(preferred) or 1410 .....	4
PSYC 2330, H ED 3123 .....	4
SOC 4334, SOC 4343 or H ED 4343 .....	6
TOTAL .....	25



4. Students who already hold a baccalaureate degree from a regionally accredited college or university may be considered for admission provided all the prerequisites in #3 above have been completed and a minimum grade point average of 2.75 has been maintained.

### Departmental Admissions Procedure and Appeals

Entry into the program is by application and competitive admission only. Applications to the program become available by November 15 and are due in the program office by February 1 for consideration for entry the following May intersession. All applications are reviewed by the occupational therapy admissions committee. Admission criteria may include cumulative biological science and behavioral science grade point averages, volunteer/work experience references, personal interview, Arkansas residency, and an essay or autobiographical statement.

Strong preference is given to Arkansas residents. Admission of out-of-state students will occur only on a very limited basis.

Applicants who believe they have been treated differently from other candidates in admissions decisions are to contact the department chair for information about the appeals process. All appeals begin at the department level.

### ACCREDITATION AND CERTIFICATION

The course of study (through completion of the master's degree in occupational therapy) is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) in collaboration with the American Occupational Therapy Association. The address for ACOTE is 4720 Montgomery Lane, PO Box 31220, Bethesda, MD 20824-1220. Phone: (301) 652-2682. Upon successful completion of the baccalaureate and master's level required courses, prerequisites, and electives, the student will have fulfilled the educational requirements for entry into the profession and will be eligible to write the national examination leading to certification by the National Board for Certification in Occupational Therapy (NBCOT). Address for NBCOT: 800 S. Frederick Ave., Suite 200, Gaithersburg, MD 20877-1450. Phone: (301) 990-7979. Graduates of the program are also eligible for state licenses. Licensure requirements vary from state to state.

### PROFESSIONAL PROGRAM REQUIREMENTS

Once accepted into the occupational therapy program, students are required to complete the following undergraduate courses with a grade of C or better in order to progress to the master's level: H SC 4400, OTHY 4310, 3215, 3220, 3223, 3241, 3316, 4330, 3340, 4125, 4127, 4128, 4270, 4308, 4317, 4321, 4325, 4330, 4355, 4365, 4438. (See the UCA *Graduate Bulletin* for courses that must be completed for the Master of Science degree in occupational therapy.)

### THE HONORS PROGRAM IN OCCUPATIONAL THERAPY

Students who have demonstrated above-average interest, ability, and professional promise may be invited to become candidates for departmental honors. The students must have earned an overall GPA of 3.5 and a GPA of 3.5 in upper-division courses.

## COURSES IN OCCUPATIONAL THERAPY (OTHY)

**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.

**3340 CLINICAL CONDITIONS I** Required for occupational therapy majors. This course 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. Fall.

**4125 INDEPENDENT LIVING STRATEGIES FOR INSTRUMENTAL ACTIVITIES OF DAILY LIVING** Required for occupational therapy majors. Students learn techniques and therapeutic procedures involved in promoting independence in daily living skills. The course focuses on the compensatory techniques, assistive devices, and adaptations to the environment to accommodate limitations in performance of self-care tasks and instrumental activities of daily living. Prerequisite: Admission to the occupational therapy program. Fall.

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

**4128 LEVEL I FIELDWORK, CLINICAL ROTATION II** Required for occupational therapy majors. The course is a clinical experience in a particular practice setting (medical, community, or rehabilitation/habilitation) in which students observe and participate in occupational therapy evaluation and treatment, with emphasis on identification of treatment theory/frame of reference and activity analysis. Prerequisite: Admission to the occupational therapy program. Spring.

**4270 PHARMACOLOGY IN REHABILITATION** Required for occupational therapy majors. The course introduces drugs of choice, their effects, side effects, and toxicology when used with occupational therapy clients in rehabilitation. Prerequisite: Admission to the occupational therapy program. Fall.

**4308 FOUNDATIONS IN OCCUPATIONAL THERAPY** Required for occupational therapy majors. In this course, students examine the conceptual foundations of occupational therapy and explore the role of occupational therapy practitioners as influenced by a variety of service delivery models. The course will assist students with understanding the basic components of documentation of occupational therapy services. Prerequisite: Admission to the occupational therapy program. Fall.

**4310 ASSISTIVE TECHNOLOGY** Open to students majoring in occupational therapy or related health care fields. The course presents the use of assistive technology to promote greater independence for individuals with disabilities. Domains presented include vision, hearing, communication, cognition, and environmental controls. Every semester.

**4317 FUNCTIONAL KINESIOLOGY** Required for occupational therapy majors. Principles of body mechanics and analysis of muscle and joint actions in functional coordinated movement are presented. Prerequisite: Admission to the occupational therapy program. Fall.

**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 biomechanical approaches to evaluation, treatment planning, implementation, and documentation relative to occupational performance and occupational adaptation. Prerequisite: Admission to the occupational therapy program. Spring.

**4325 CLINICAL PSYCHIATRY** Required for occupational therapy majors. A study of personality disorders and resulting patterns of behaviors. The course presents the etiology and treatment of major neuropsychiatric conditions through lecture and case presentation format. Prerequisite: Admission to the occupational therapy program. Spring.

**4330 INTRODUCTION TO RESEARCH** Required for occupational therapy majors. Students learn to interpret and critically analyze current literature and research in occupational therapy and related fields. Sampling, data collection, data analysis, reliability, validity, and the components of a research proposal will be introduced. Prerequisite: Admission to the occupational therapy program. Spring.

**4351 INDEPENDENT STUDIES IN OCCUPATIONAL THERAPY** For occupational therapy honor students by invitation of faculty. This is a directed study designed to provide students with in-depth inves-

tigation of a specific area of occupational therapy. Review of the literature and/or research project is required. Regular consultation and guidance with instructor is necessary. Prerequisite: Admission to the occupational therapy program and GPA of 3.5 or better. Fall.

**4355 EVALUATION AND TREATMENT IN PEDIATRICS I** Required for occupational therapy majors. This course introduces the scope of occupational therapy practice with children. Neurodevelopmental and sensory integrative approaches to evaluation, treatment planning, implementation, and documentation relative to occupational performance and the model of human occupation are emphasized. Prerequisite: Admission to the occupational therapy program. Fall.

**4365 EVALUATION AND TREATMENT IN MENTAL HEALTH I** Required for occupational therapy majors. This course presents the model of human occupation, object relations, behavior, and role acquisition approaches to evaluation, treatment planning, implementation, and documentation for clients with cognitive and mental disorders. Prerequisite: Admission to the occupational therapy program. Fall.

**4380 EVALUATION AND TREATMENT IN PHYSICAL DISABILITIES II** Application of occupational therapy theories and principles for evaluation and treatment in physical disabilities. Treatment planning, implementation, and documentation with emphasis on functional adaptations. Admission to the occupational therapy program. Fall.

## PHYSICAL THERAPY

**Chair and Professor:** Dr. Lovelace-Chandler, 450-3611

**Professor:** Dr. Bandy

**Associate Professors:** Dr. G. Irion, Dr. Knutson, Dr. Reese

**Assistant Professors:** Dr. Holmes, Ms. J. Irion, Dr. Gross McMillan, Dr. Mendelson, Dr. Zabel

**Instructor II:** Mr. Fletcher

**Instructor I:** Mr. Hearn, Ms. McGee, Ms. Maresh, Ms. Stephens

### PHYSICAL THERAPY: A DYNAMIC HEALTH CARE PROFESSION

Physical therapists are professionally educated at the college or university level and are required to be licensed in the state or states in which they practice. Physical therapists plan, organize, implement, direct, and evaluate programs for the care of patients of all ages who are physically disadvantaged by illness, accident, or birth injury. They work in a variety of health care settings including hospitals, nursing homes, rehabilitation centers, schools, community health centers, research centers, industry, private offices, and as athletic trainers. Physical therapists may also work as consultants or as instructors in colleges and universities offering programs in physical therapy education. Their responsibilities often include instructing patients and their families and supervising assistants, aides, students, and other health care workers in providing interventions or

treatments. Patient interventions include exercises for increasing strength, endurance, coordination, and range of motion; the use of heat, cold, electricity, sound, and water to relieve pain and stimulate motor activity; and instruction in activities of daily living and the use of assistive devices. Physical therapists also engage in clinical research to develop more effective treatments and methods of evaluation in order to improve patient care, are involved in prevention and wellness activities, and engage in administrative tasks. Physical therapists earn post-baccalaureate degrees.

The physical therapist assistant is an educated health care provider who assists the physical therapist in the provision of physical therapy. While only a therapist may evaluate a patient and plan the treatment program, the assistant may assist the therapist as follows: by teaching patients exercises and activities of daily living, by performing other interventions using special equipment, and by assisting in testing and complex treatment procedures.

### PURPOSES

The goal of the Department of Physical Therapy is to produce graduates who are active members of the health team and use skill and empathetic understanding in patient care. The Associate of Applied Sciences (AAS) degree in physical therapist assisting (PTA) is based

on 27 semester hours of general education course work followed by 38 semester hours of course work in the technical curriculum. Graduates are technical health workers skillful in performing patient care activities as directed and supervised by a physical therapist.

The department offers a professional Doctor of Physical Therapy (DPT), which leads to a career in physical therapy, and a post-professional Doctor of physical therapy, an advanced Master of Science in Physical Therapy, and a PhD in physical therapy, which are degrees for advanced study. Please refer to the UCA *Graduate Bulletin* for information on these degrees.

## ACCREDITATION STATUS

The Associate of Applied Science degree program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) of the American Physical Therapy Association.

## ASSOCIATE OF APPLIED SCIENCE (AAS) IN PHYSICAL THERAPIST ASSISTING

The curriculum leading to the associate degree with a major in physical therapist assisting requires 26 hours of prerequisite course work and 38 hours of course work in the technical curriculum. The prerequisite departmental requirements are listed under admission requirements to the technical (PTA) program.

The curriculum in physical therapist assisting has strict enrollment limitations, and entry is by application and competitive admission only. The program is a continuous, 12-month course of study beginning in the second summer session of each year. The curriculum encompasses two semesters of course work and summer internships.

Students who have completed at least 22 hours (including 4 hours of prerequisite science courses) of the prerequisite course work with the acceptable grades may apply to the PTA curriculum by submitting an application packet, available each spring. Students who lack some prerequisites course work but who are otherwise competitive will be granted tentative acceptance. The remaining prerequisite course work must be completed before enrollment in the PTA curriculum in July.

### **Admission Requirements to the Physical Therapist Assisting Curriculum**

Students accepted into the PTA curriculum must have 26 semester hours of acceptable college credit with a cumulative grade point average of at least 2.5 based on a 4.0 scale and a grade point average of 2.75 based on a 4.0 scale for all required course work. Students must have at least a grade of C in the required science courses or their substitutes.

The GPA for the last 12 hours of course work will be considered by the admissions committee for admissions purposes only, as a substitute for the cumulative GPA, if the GPA for the last 12 hours is at least 10% higher than the cumulative GPA and includes 4 hours of

appropriate science course work. Appropriate science course work includes science courses for science or health science majors except botany. The Department of Physical Therapy reserves the right to determine appropriateness of science course work used to fulfill the prerequisite requirement. No more than seven credit hours may be repeated course work, and only one science course may be repeated for this option. The minimal 2.5 cumulative GPA requirement must be met prior to using this option.

### **Prerequisite Course Work**

To be eligible to apply for admission, candidates must complete the prerequisite requirements prior to the enrollment date in July. The 26 hours of prerequisite course work may be completed at another regionally accredited college, university, or community college. Courses taken elsewhere must be equivalent to UCA courses. **All college course work must be submitted regardless of when it was completed and regardless of the nature of the course work.**

1. Individuals without an associate or baccalaureate degree must complete the general education course requirements of the university plus specific department requirements as follows (course numbers reflect UCA courses):
  - 3 semester credit hours general psychology (PSYC 1300)
  - 4 semester credit hours of physics (PHYS 1405, grade of C or higher required)
  - 4 semester credit hours of biological sciences, which include a minimum of 4 hours in anatomy and physiology (BIOL 2405 or equivalent grade of C or higher required)
2. Individuals who hold or will have completed an associate or baccalaureate degree from an accredited college or university by the July starting date need only fulfill the department requirements cited above.

### **Application Materials**

All application materials must be submitted to the UCA Department of Physical Therapy by April 15 for admission in July. Application packets are available each spring.

1. Application to the University of Central Arkansas (not required of former or present UCA students).
2. Application to the Department of Physical Therapy.
3. Official transcripts of all college course work. Transcripts must be mailed directly from the issuing institution. Updated transcripts showing the completion of all courses scheduled for the spring and/or summer will be required.
4. College-Level Examination Program (CLEP) scores if used to satisfy prerequisite course work. (Not required for UCA students whose CLEP scores have already been accepted and recorded on their UCA transcripts.)
5. Non-refundable application fee.
6. Finalists will be notified for a required interview.

### **Physical Therapist Assistant Curriculum**

#### **Summer**

PTHY 2220

### 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, <i>or</i>    |
| BIOL 4311 | Pathophysiology, <i>or</i> |
| BIOL 4351 | Pharmacology               |

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

- |           |                                 |
|-----------|---------------------------------|
| CHEM 1451 | College Chemistry II, <i>or</i> |
| CHEM 2450 | Physiological Chemistry II      |
| PHYS 1420 | College Physics 2               |
| PSYC      | elective                        |

Choose one of the following:

- |           |                                      |
|-----------|--------------------------------------|
| CSCI 1300 | Introduction to Computers, <i>or</i> |
| INFO 1343 | Information Processing and Analysis  |
| H ED 3123 | Medical Terminology                  |
| WRWG 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 |
| KPED 3363 | Adapted Physical Education                       |
| KPED 4300 | Exercise Physiology                              |
| PSYC 4320 | Abnormal Psychology                              |
| PSYC 4325 | Physiological Psychology                         |
| SPTA 4316 | Health Communications                            |
| SOC 3350  | The Family                                       |
| SOC 3381  | Death and Dying                                  |
| SOC 4331  | Social Gerontology                               |
| SOC 4334  | Medical Sociology                                |
| SOC 4335  | Health Organizations                             |

### Additional Electives (12 upper division) ..... 13 hours

### TOTAL ..... 124 hours

Suggested lower- and upper-division electives:

- |           |  |
|-----------|--|
| ACCT 2310 | Principles of Accounting I                             |
| ACCT 2311 | Principles of Accounting II                            |
| ACCT 3321 | Legal Environment of Business I                        |
| ECON 2320 | Principles of Macroeconomics                           |
| ECON 2321 | Principles of Microeconomics                           |
| FACS 1300 | Nutrition in the Life Cycle                            |
| FACS 3370 | Advanced Nutrition                                     |
| FACS 4395 | Nutrition: Contemporary Issues                         |
| FACS 2322 | Child Care for the Disadvantaged/<br>Handicapped Child |
| FACS 2341 | Lifespan Development                                   |
| FACS 3372 | Consumer Education                                     |
| FINA 3330 | Managing Finance & Capital                             |
| H ED 2201 | First Aid  |
| H ED 2320 | Mental Health  |
| H ED 3315 | Theory and Practice of Prevention                      |

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.

## GRADUATE DEGREES IN PHYSICAL THERAPY

See *Graduate Bulletin*.

### COURSES IN PHYSICAL THERAPIST ASSISTING (PTHY)

**2205 THERAPEUTIC PROCEDURES FOR ASSISTANTS** A course for the physical therapist assistant covering physiological principles of massage, traction, biofeedback, and therapeutic exercise in patient treatment. Emphasis will be on the practical applications of these procedures, keeping in mind the underlying physiological principles that apply.

**2210 PATIENT CARE SKILLS** This course will include lecture and laboratory experiences in order to provide the psychomotor skills necessary in the basic physical therapy techniques. Laboratory practice will consist of practice in body mechanics, transfer techniques, positioning, the fitting and applications of crutches and other assistive devices, wheelchair functions, aseptic techniques, and taking vital signs. Students will also be informed of ADA issues and the role of physical therapist/therapist assistants in the implementation of ADA.

**2215 THERAPEUTIC AGENTS FOR ASSISTANTS** A course for the physical therapist assistant in physiological principles underlying the use of thermal agents, hydrotherapy, phototherapy, and other physical agents in treatment of clinical conditions. Emphasis on application of agents.

**2220 INTRODUCTION TO KINESIOLOGY** A detailed study of musculoskeletal anatomy and physiology and muscle innervation as a foundation for understanding kinesiological principles for the physical therapist assistant.

**2225 PSYCHOSOCIAL ASPECTS OF PHYSICAL DISABILITY FOR THE ASSISTANT** This course is designed to begin facilitation of the socialization process for students into their professional role by allowing each student to learn about the "self," the importance of communication in health care, and the effects of disability on the lives of patients.

**2230 ELECTROTHERAPY FOR ASSISTANTS** The indications and use of electric modalities in patient treatment are explored in this course. Included are neuromuscular electric stimulation (NMES), transcutaneous electrical nerve stimulation (TENS), interferential current (IFC), ionto-

phoresis, uses for high voltage pulsed current (HVPC), and direct current (DC). Emphasis is on safe and effective uses of the equipment.

**2240 CLINICAL INTERNSHIP I FOR ASSISTANTS** Clinical Internship I for Assistants is a weekly classroom seminar and a two-week (80 hours) supervised clinical experience emphasizing participation and basic clinical skills.

**2275 INTRODUCTION TO PHYSICAL THERAPIST ASSISTING** The role of the PTA in the health care system and particularly in physical therapy. Includes the study of medical terminology as applied to the physical therapy profession.

**2280 ADMINISTRATION AND MANAGEMENT FOR PHYSICAL THERAPIST ASSISTANTS** Study of basic principles of administration and management in the practice of physical therapy with emphasis on understanding the basic levels of authority and responsibility, time management, hierarchical supervisory structures, performance evaluations, policies and procedures, and fiscal planning as applied to the physical therapist assistant. Also included is a study of the current health system in relation to the operational management of the physical therapy department.

**2295 MEDICAL LECTURES FOR ASSISTANTS** Diseases, traumatic disorders, and developmental abnormalities which affect the musculoskeletal, neurological, and other pertinent body systems.

**2325 CLINICAL INTERNSHIP II FOR ASSISTANTS** Clinical Internship II for Assistants is a weekly classroom seminar and a four-week (160 hours) supervised clinical experience designed to continue the development of student's clinical skills and confidence in the clinical setting.

**2330 THERAPEUTIC EXERCISE FOR ASSISTANTS** Exercise techniques in the care of patients with various clinical disorders through laboratory simulations and practice.

**2340 NEUROPHYSIOLOGICAL AND REHABILITATION TECHNIQUES FOR ASSISTANTS** Neurophysiological and rehabilitation techniques for such clinical disorders such as cerebral palsy, cerebrovascular accidents, spinal cord injury, and cardiac infarctions.

**2350 KINESIOLOGY AND FUNCTIONAL MEASUREMENTS** Structural and functional aspects of the human body with emphasis on functional measurements including manual muscle testing, goniometry, posture, and gait.

**2610 CLINICAL INTERNSHIP FOR ASSISTANTS** This clinical internship consists of two five-week full-time supervised experiences designed to provide the student with the ability to integrate previously attained didactic and clinical skills in situations involving an entry-level Physical Therapist Assistant (PTA). The total 10 weeks of clinical experiences will provide one five-week *inpatient* clinical internship and one five-week *outpatient* clinical internship.

Upper-division courses in physical therapy are available only to students admitted to the physical therapy program. Telephone for further information: (501) 450-3611.

# RADIOGRAPHY

**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)

**2110 INTRODUCTION TO RADIOGRAPHY** Structure, policies, and procedures of the school, radiology department, and hospital. Brief history of medicine and radiology. Professional organizations, licensure, and career opportunities. Basic principles of radiation protection are introduced.

**2111 MEDICAL TERMINOLOGY** The language of medicine. Word-building system of medical terminology: prefixes, suffixes, and root or stem words relating to the body and its systems. Terms, abbreviations, and symbols especially pertinent to radiology with emphasis on understanding the meaning of such words and their proper uses.

**2112 RADIOGRAPHIC FILM PROCESSING** Knowledge of processing chemistry, the various systems of automatic processors and the radiographic film characteristics. Design and structure of the processing room and appropriate accessories are discussed. The causes of, and methods of eliminating, artifacts on film are learned as well as means of silver reclamation.

**2113 RADIOGRAPHIC PROCEDURES I** Radiographic positioning of the anatomic structures and organs of the body are correlated with human structure and function. Special or supplementary radiographic views, studies using contrast media, special procedures, and pediatric radiography are studied.

**2114 MEDICAL ETHICS AND LAW** Moral, legal, and professional responsibilities of the radiologic technologist are studied. Emphasis is placed on confidentiality and interpersonal relations with patients and other health care team members.

**2120 METHODS OF PATIENT CARE** Concepts of care of the patient in radiology including both physical and psychological conditions. General nursing procedures, patient preparation for radiographic procedures, the basic forms of contrast media and the precautions for administering them, and emergency care. Preparation to deal with patients in a manner that does not add further discomfort or injury nor hinder recovery. Competency in cardiopulmonary resuscitation and IV therapy are obtained in this course.

**2121 EVALUATION OF RADIOGRAPHS I** Continuing critique of radiographic film quality, incorporating knowledge and skills acquired in other courses with specific reference to technical difficulties. On-going review of radiographic positioning, components of radiographic quality, methods of protection, and pathological conditions affecting film quality.

**2130 EVALUATION OF RADIOGRAPHS II** Continuation of RADG 2121.

**2211 HUMAN STRUCTURE AND FUNCTION I** Knowledge of human anatomy; its framework, structure, organs, systems, and the specific functions of each. Relationship of the various organs and structures to surface landmarks. Emphasis on the identity of anatomical structures via the use of radiographs.

**2222 HUMAN STRUCTURE AND FUNCTION II** Continuation of RADG 2211.

**2223 PRINCIPLES OF RADIOGRAPHIC EXPOSURE I** Technical factors required to produce diagnostically satisfactory radiographs. Principles of the controlling and influencing factors which affect each of the radiographic qualities and the mathematical calculations for determining exposure technique. Applications of anatomy, physiology, and pathology affecting technique and considerations for technique chart construction.

**2224 RADIOGRAPHIC PROCEDURES II** Continuation of RADG 2213.

**2231 PRINCIPLES OF RADIOGRAPHIC EXPOSURE II** Continuation of RADG 2223.

**2232 RADIOGRAPHIC PROCEDURES III** Continuation of RADG 2224.

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

**2420 CLINICAL EDUCATION II** Continuation of RADG 2510.

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

**2530 CLINICAL EDUCATION III** Continuation of 2420.

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

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

**3142 EVALUATION OF RADIOGRAPHS III** Continuation of RADG 2130.

**3143 RADIATION PHYSICS II** Continuation of RADG 2233.

**3144 RADIOGRAPHIC PROCEDURES IV** Continuation of RADG 2232.

**3150 EVALUATION OF RADIOGRAPHS IV** Continuation of RADG 3142.

**3151 RADIOGRAPHIC PROCEDURES V** Continuation of RADG 3144.

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

**3740 CLINICAL EDUCATION IV** Continuation of RADG 2530.

**3851 CLINICAL EDUCATION V** Continuation of RADG 3740.

**4160 INTRODUCTION TO 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.



# SPEECH-LANGUAGE PATHOLOGY

**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.

## HONORS IN SPEECH-LANGUAGE PATHOLOGY

Upon completion of 72 hours (with twelve hours in the major), a student may be invited by the faculty of the speech-language pathology department to pursue departmental honors. To be eligible for departmental honors, a student must have a minimum 3.25 overall GPA and a 3.4 in the major. After working with a faculty mentor and completing SPTH 4350 Honors in Speech-Language Pathology, students must submit written evidence of a research paper or project and make a formal presentation to the faculty and students.

## ADMISSION AND RETENTION

All students declaring a speech-language pathology major are accepted as tentative candidates to the undergraduate program. Enrollment in SPTH 2300 Introduction to Clinical Speech, SPTH 2322 Applied Phonetics, SPTH 2302 Basic Sign Language, SPTH 4305 Intermediate Sign Language, and SPTH 4310 Assistive Technology, is open to all students. All other courses in speech-language pathology require formal admission to the program. Students apply for fall admission to the undergraduate program during the spring or summer prior to beginning the fall semester of their junior year.

Based on academic and personal qualifications of the applicant, admission to the BS program in speech-language pathology is granted without regard to race, color, creed, or national origin. Admission to the program is competitive and selective. To be eligible to apply, a student must meet the following minimum requirements:

1. Junior status with an overall undergraduate grade point average of 2.7.
2. A major grade point average of 3.0.
3. A formal interview with the admissions committee.
4. Three references from outside the department.

The progress of students admitted into the speech-language pathology program is reviewed routinely. To remain in good standing a student must

1. Maintain a minimum overall grade point average of 2.7.
2. Maintain a minimum major grade point average of 3.0.
3. Observe the fundamental rules of ethical conduct as described in the Code of Ethics of the American Speech-Language-Hearing Association.

A less than minimum GPA must be raised to the stated minimum before continuing in the program. If the major GPA falls below the minimum, those major courses that resulted in a lower GPA must be retaken before enrolling in any new major courses.

## BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

The degree of Bachelor of Science, with a major in speech-language pathology, requires completion of (1) the general education component, (2) degree requirements, (3) major requirements, and (4) the option to complete a minor as worked out with the student's minor advisor or the option to choose, in consultation with the student's major advisor, elective courses that would support the major.

**Major in Speech-Language Pathology ..... 42 hours**

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 special education. Lecture, discussion, in-class laboratory practice. Open to all students. Fall, spring.

**4320 COUNSELING IN SPEECH-LANGUAGE PATHOLOGY** Required. A study of the history of the development, value, and limitations of counseling in speech-language therapy. A variety of counseling techniques relevant to diagnosis and treatment in speech-language pathology will be described and practiced. Lecture and discussion. Prerequisite: Program admission. Spring.

**4350 HONORS IN SPEECH-LANGUAGE PATHOLOGY** Elective. Selected students are assigned to a faculty mentor who has expertise in the student's chosen topic of research and are expected to meet with the mentor weekly. The student will write a research paper that reflects quality worthy of an honor designation and upon completion will present the paper to an audience of faculty and peers. Discussion and research. Prerequisites: Program admission and consent of instructor. Fall, spring, summer.

# COLLEGE OF LIBERAL ARTS

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

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

## MISSION

The College of Liberal Arts is a community of teachers, scholars, and students whose primary mission is the pursuit of knowledge. Through teaching, advising, scholarly or creative endeavors, and community service, the faculty of the college seek to extend their own knowledge, the knowledge of their students, and the knowledge of other members of the larger community. By exploring and freely exchanging ideas, members of the college attempt to enhance the understanding of different disciplines, cultures, and viewpoints. The College of Liberal Arts is committed to establishing and maintaining a culturally diverse environment characterized by openness and mutual respect. Through its recruitment of faculty, staff, and students, its curricular offerings, and its extra-curricular activities, the college seeks to introduce students from many backgrounds to the great diversity of groups and cultural traditions that characterizes American society and the broader world.

The college provides university students with a broad education in the liberal arts. The goals of such liberal undergraduate education include the following:

- To introduce students to a variety of disciplines and categories of human knowledge so that they may discover, develop, and use their full range of abilities;
- To enable students to reason clearly, to inquire deeply into the purposes and consequences of events, and to exercise sound, critical judgment;
- To provide students with a basic foundation of knowledge on which more advanced learning in the various disciplines and majors can later build; and
- To help prepare students to become more complete, flexible human beings who understand the complexity of a constantly changing world and who are prepared to function effectively in the global community.

All students at the university, usually in their first two years, take between 15 and 21 hours of general education courses in the college. In addition, the College of Liberal Arts provides opportunities for more comprehensive learning in a number of academic areas, including several interdisciplinary programs. Students who choose one of the college's major or minor undergraduate programs of study begin to master the knowledge and research methods of a particular field of learning and, as appropriate, to prepare for a career. Graduate programs in English, history, and Spanish are provided for post-baccalaureate students who wish a more advanced, focused education in these areas. Through public lectures, conferences, and other cultural offerings, the college also provides members of the univer-

sity and the general community with numerous opportunities for intellectual and personal growth.

## DEPARTMENTS

English  
Foreign Languages  
Geography, Political Science, and Sociology  
History  
Philosophy and Religion

## PROGRAMS WITH DEPARTMENTAL HONORS

English  
French  
Geography  
History  
Philosophy  
Political Science  
Sociology  
Spanish

## DEGREES OFFERED

### ***Bachelor of Arts***

English  
French  
Geography  
History  
Philosophy  
Political Science  
Religious Studies (see Interdisciplinary Programs)  
Spanish  
Sociology

### ***Bachelor of Science***

Geography  
History  
Philosophy  
Political Science  
Public Administration  
Sociology

### ***Bachelor of Science in Education***

English  
Social Studies, History Emphasis

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

### **Pre-Professional Studies**

Pre-Law

### **Master of Arts**

English  
History

### **Master of Science in Education**

Spanish

## **MINORS**

Asian Studies (see Interdisciplinary Programs)  
English

French  
Geography  
Geographic Information Science  
German  
History  
Latin American Studies (see Interdisciplinary Programs)  
Philosophy  
Political Science  
Religious Studies (see Interdisciplinary Programs)  
Social Studies, History Emphasis  
Sociology  
Southern and Arkansas Studies (see Interdisciplinary Programs)  
Spanish

# **ENGLISH**

**Interim Chair and Professor:** Dr. Stengel, 450-5103

**Professors:** Dr. Anderson, Dr. Frontain, Dr. Glenn, Dr. Kearns, Dr. Lowrey, Dr. Melchior, Dr. Rogers, Dr. Shumaker

**Associate Professors:** Dr. Fowler, Dr. Gaughan, Dr. Schaefer, Ms. Williams

## **PURPOSES**

The four-fold objective of the Department of English is (1) to improve the abilities of students in understanding, writing, and speaking the English language, (2) to increase students' pleasure in and knowledge of literature as an art form, (3) to enable our students to find meaning in large amounts of information and to give them the skills of synthesis to evaluate, interpret, and use this information to solve problems, and (4) to endow students of literature and language with the ability to work with sympathetic imagination with people from backgrounds and cultures different from their own—to give the English major an understanding of globalization and its implications for the world of work in the twenty-first century.

Courses in literature are varied in such a fashion that general overall views of world literature, British literature, and American literature are presented in addition to period courses, "figure" courses, and genre courses which allow greater in-depth study. Increasingly, our world literature classes and our introduction to fiction, drama, and poetry are taking a global perspective which demonstrates to students the nature of and relationships among cultures across national boundaries. By understanding literary expression as a product of social, historical, and artistic processes, our students see parallels and connections among citizens and artists in societies around the globe.

English majors will have had a strong foundation, both in studies in the English language and in several areas of literature, even though they may have a variety of choices within given categories. Traditionally the English major may qualify to enter graduate school in

English or to teach on the secondary level. Increasingly, however, our students pursue careers in foreign service, law, technical communication, advertising, public relations, business management, sales, and higher education/administration.

A number of courses, particularly those on the sophomore level, are specifically designed as general education courses and are intended primarily to acquaint the student who majors in other fields with such literature as will broaden understanding of the human experience and the potential of their role in an increasingly more interconnected 21st-century world.

## **THE HONORS PROGRAM IN ENGLISH**

As early as the sophomore year, and no later than the first semester of the junior year, an English major may be invited to study for an honors degree in English. To earn an honors degree the following conditions must be met:

1. Consent of the chair of the Department of English.
2. Maintenance of a 3.5 grade point average in the major.
3. Successful completion of ENGL 4300, the examination for which will be oral and conducted by three members of the English faculty.
4. An acceptable essay based upon reading done in ENGL 4300 and submitted in the senior year to the professor who directed the reading program.

## **BACCALAUREATE DEGREES**

### ***Bachelor of Arts***

The degree of Bachelor of Arts, with a major in English, requires successful completion of at least 124 hours, including (1) the general education component, (2) degree requirements, (3) major requirements, and (4) a minor.

**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)**

**2305 WORLD LITERATURE I** This course satisfies three hours of the world cultural traditions requirement within the general education program. The course examines the epic and dramatic tradition cross-culturally from Asian and African as well as Greco-Roman and European texts. The class views a series of narratives and poems from many nationalities. Lecture, discussion, in-class writing, and larger essays. Prerequisites: None. Fall, spring, one summer term.

**2306 WORLD LITERATURE II** This course satisfies three hours of the world cultural traditions requirement within the general education program. The course typically focuses on vernacular literature in China, the Enlightenment in Europe, art forms in pre-modern Japan, Romantic art in Europe and America, and twentieth-century literature in Africa, India, Russia, and South America to gain a perspective that defines culture globally. Lecture, discussion, in-class writing, and larger essays. Prerequisites: None. Fall, spring, one summer term.

**2310 ENGLISH LITERATURE I** A basic course requirement for majors and minors and, in series with English Literature II, a charting of the major forms and styles of English literature. The course traces works from Beowulf through writings in the Renaissance. The course identifies the developments of genres and relationships among history, audience, and author to develop methods for understanding a variety of national literatures. Lecture, discussion, in-class writing, longer out-of-class essays. Fall, spring.

**2311 ENGLISH LITERATURE II** A basic course requirement for majors and minors and, in series with English Literature I, a charting of the major forms and styles of English literature. The course generally focuses on major works from Pope, Dryden, Swift in the eighteenth century to Joyce, Woolf, Shaw, Lawrence, Yeats, and Seamus Heaney in the twentieth century. Lecture, discussion, in-class writing, longer out-of-class essays. Fall, spring.

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

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

**2370 INTRODUCTION TO FICTION** This course satisfies the 3-hour humanities requirement within the general education program. Exposes the student to a sampling of short stories and novellas from English, American, continental, African, Indian, Asian, and Latin American perspectives. The course sees the development of the short fiction form across multi-national perspectives and enables the student to see fiction as a process of cultural, historical, and social forces. Lecture, discussion, in-class writing, longer assigned essays. Fall, spring.

**2380 INTRODUCTION TO POETRY** This course satisfies the 3-hour humanities requirement within the general education program. Exposes the student to the development, forms, and techniques of British and American poetry. Also explores poetry from non-Western cultures, including Latin American, Indian, and African poetry. Some attention paid to prosodical, musical, and metrical effects. Gives students a sense of how poets and poetry develop in the conflict between the writer and culture. Fall, spring.

**2390 INTRODUCTION TO DRAMA** This course satisfies the 3-hour humanities requirement within the general education program. A historical overview of the development of drama from Greek tragedy and comedy to the flowering of Renaissance drama with Shakespeare. Studies dramas of the nineteenth and twentieth centuries in cross-cultural perspective to include Japanese, Chinese, Indian, African, and Latin-American theater. This course views drama as an evolving art form dependent on audience and social environment for interpretation. Fall, spring.

**3310 CHILDREN'S LITERATURE** Part of the academic content block required of elementary and early childhood majors. The course introduces the teacher education candidate to a wide range of books for children from birth through grade four and to criteria essential to evaluating and selecting good literature. Lecture, discussion. The

course may not be counted toward the English major or minor. Prerequisite: Admission to teacher education. Fall, Spring.

**3312 MODERN GRAMMARS** Introduction to the science of linguistics, its terminology, its methods, and its relation to the study of English. Traditional, structural, and transformational-generative approaches. Some particular problems related to the teaching of English grammar in public schools. Fall, spring.

**3315 GENDER AND LANGUAGE** An overview of the sociolinguistics of language and its relationships to gender. The course develops awareness of language as a system of rules, codes, and prescribed attitudes to gender roles. Lecture, discussion, research topics. On demand.

**3320 LITERATURE FOR THE MIDDLE GRADES** Part of the academic content block required for language arts/social studies licensure for middle-school education. The course introduces the teacher-education candidate to a wide range of literature for children from grades four through eight and to criteria essential to evaluating and selecting good literature for middle-school readers. Lecture/discussion. The course may not be counted toward the English major or minor. Prerequisite: Admission to teacher education. Fall.

**3325 ADVANCED READINGS IN WORLD LITERATURE** Selected topics to include specific writers, historical periods, literary/social movements, cultural expressions in any area of world literature from classical authors to postmodern figures. Lecture, discussion. On demand.

**3335 LANGUAGE AND GRAMMAR STUDIES** This course examines specific topics and problems of English grammar, structure, and usage in order to provide an understanding and command of language that will lead to effective and creative classroom teaching of English and language arts. The course emphasizes the study of grammar in context to afford greater facility in approaching and analyzing texts.

**3343 SOUTHERN LITERATURE** For English majors and minors to fulfill upper-division elective requirements. Poetry, prose, and drama of representative twentieth-century-southern writers. Explores the concept of twentieth-century Southern literature as a social, cultural, and historical manifestation and reaction to contemporary trends in American life and history. Lecture, discussion. On demand.

**3371 THE MODERN NOVEL** For English majors and minors to fulfill genre requirement. Close readings of English, American, continental, and non-Western novelists of the twentieth century. Course develops understanding of the novel form as expression of and/or reaction to forces of twentieth-century thought and philosophy: existentialism, Freudianism, Marxism, and Structuralism. Lecture, discussion. On demand.

**3372 AMERICAN NOVEL TO 1900** For English majors and minors to fulfill genre requirement. Course examines development of novel in America generally focusing on writers such as Brockden Brown and Hawthorne to Wharton and James. Explores the American novel as a distinct entity from European and continental models and a result of social, historical, and economic forces in American life. Discussion, lecture, selected writing assignments. On demand.

**3382 HISTORY OF THE ENGLISH LANGUAGE** For English majors and minors to fulfill the requirement for upper-division electives. A survey of changes in the structure, usage, and pronunciation of English from the Anglo-Saxon to the modern period, with some specific attention to the linguistic context of literary change. Lecture, discussion, research paper. On demand.

**3611 TRAVEL SEMINAR IN ENGLISH LITERATURE** Satisfies three hours of upper-division electives for English majors and minors. Two weeks of intensive study on campus of the literature of Great Britain and its backgrounds followed by a three-week tour of Scotland, Ireland, and England visiting literary sites. Prerequisite: Sophomore standing and a minimum of 6 semester hours of college.

**4300 READINGS FOR HONORS DEGREE** Tutorial taken in the junior year by students who elect to study toward an honors degree in English. A reading list, chosen by student and tutor with the department chair's approval, will provide the foundation for a thesis to be written by the honors candidate during the senior year. Prerequisite: Consent of instructor and chair. Spring.

**4301 THE RENAISSANCE** For English majors and minors to fulfill period requirements. The course studies major non-dramatic writers of Tudor and early seventeenth-century England, generally focusing on Spenser, Donne, Sidney, Bacon, and Raleigh. The course sees these writers and their works as products of a major literary, cultural, historical, and social movement. Lecture, discussion, research, and/or formal essay assignments. On demand.

**4304 STUDIES IN ENGLISH AND AMERICAN LITERATURE** For English majors and minors to fulfill period, genre, figure, or upper-division elective requirements. Concentrated study of different special topics on groups of writers, literary movements, sub-genres, philosophical and critical considerations, historical and social interpretations of English and American literature. May be taken only one time without approval of the departmental chair. Lecture, discussion, research, and/or formal assignments. On demand.

**4305 MEDIEVAL ENGLISH LITERATURE** For English majors to satisfy upper-division period requirements. An overview of English medieval literature (exclusive of Chaucer). Anglo-Saxon and some Middle English texts will be taught in translation, but Middle English will be retained whenever possible. Lecture, discussion, research, and/or formal written assignments. On demand.

**4311 THE NEO-CLASSICAL PERIOD** For English majors and minors to satisfy upper-division period requirements. Major writers from the Restoration to the end of the eighteenth century, generally focusing on writers such as Dryden, Swift, Pope, S. Johnson. The course identifies the writers' major philosophical and ideological beliefs set against social and historical transformations in the period. Lecture, discussion, research papers, and/or formal written assignments. On demand.

**4312 AMERICAN PROVINCIAL LITERATURE** For English majors and minors to satisfy upper-division period requirements. American literature from its beginnings to 1830, generally focusing on writers

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 MODERNISM, 1900–1945** For English majors and minors to satisfy either period or upper-division elective requirements. A study of American literature, its influences and background from 1900 to 1945. Works studied generally focus on the lost generation novels of Hemingway and Fitzgerald, the collages and cubist effects of Eliot, Stevens, Crane, and Williams' poetry, the surrealism of Nathaniel West, and the poetic regionalism of Faulkner. Lecture, discussion, research paper, and/or formal writing assignments. Alternate years with American Postmodernism.

**4353 AMERICAN POSTMODERNISM 1945 TO PRESENT** For English majors and minors to satisfy either period or upper-division elective requirements. American literature from the end of World War II until the present to include writers as diverse as DeLillo, Morrison, Erdrich, Roth, Merrill, Ashberry, O'Hara, Pynchon, Reed. Analysis of the conception of postmodernism in these writers. Lecture, discussion, research paper, and/or formal writing assignments. Alternate years with American Modernism.



**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.

**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 LANGUAGES

**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

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.

### 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.

### 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.
2. Satisfactory completion, with a minimum grade of B, of the next foreign language course above the level for which credit is to be awarded.

## 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.
3. Successful completion of course 4310 demonstrated by submission and approval of a research paper on a literary, cultural, or linguistic topic.
4. Presentation of an oral defense of the research paper before a committee made up of three members of the faculty of the department.

### BACCALAUREATE DEGREES

#### ***Bachelor of Arts***

The degree of Bachelor of Arts, with a major in French or Spanish, requires successful completion of 124 hours, including (1) the general education component; (2) degree requirements; (3) a major program in French or Spanish as outlined below; and (4) a minor as planned with the student's minor advisor.

#### **Major in French or Spanish..... 30 hours**

A major in French or Spanish requires the following:

1. A minimum of 30 hours of courses at the 2310 level or above. These 30 hours must include
  - Courses 3300 and 3303;
  - Three hours of culture and civilization (3312, 3313 or 4396);
  - Three hours of literature (3320, 3321 or 4395);
  - FREN 4350 (French majors only);
  - One civilization or literature course at the 4000 level (Spanish majors only).
2. Satisfactory performance on proficiency tests upon entrance to and exit from the major program.
3. A minimum grade of C in each course applying to the major program.

#### **Minor in French, German, or Spanish ..... 18 Hours**

A minor in French, German, or Spanish requires the following:

1. A minimum of 18 hours at the 2310 level or above. These 18 hours must include
  - Course 3300;
  - Course 3303 (Spanish and German); course 3303 or 4350 (French);
  - Three hours of culture and civilization (3312, 3313, or 4396);
  - Three hours of literature (3320, 3321, or 4395).
2. Satisfactory performance on proficiency tests upon entrance to and exit from the program.
3. A minimum grade of C in each course applying to the major program.

#### ***Bachelor of Arts with Teacher Licensure***

*Note: Teacher preparation programs in secondary education are currently under review. For further information, contact the Chair of the Department of Foreign Languages (450-5645), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

### PROFICIENCY TESTS

All foreign language majors and minors will be required to take a general proficiency test in the language before enrolling in upper-division courses. An exit examination in the language, literature, and culture of the target language is also required for all majors and minors during the senior year. Additional courses will be required for students with deficiencies.

### MASTER'S DEGREE

See *Graduate Bulletin*.

### COURSES OFFERED IN ENGLISH (FLAN)

**1300 ELEMENTARY LANGUAGE I** Offered in a designated foreign language in response to student interest. Emphasis on grammatical concepts leading to a basic reading ability and/or oral/aural skills. On demand.

**2315 CULTURAL STUDIES** Satisfies the 3-hour humanities requirement of the general education program. Examination of one or more foreign cultures, their personal and group values, and their ways of life as reflected in literature (i.e., short stories, essays, novels) and film. May be repeated for credit under different topics. May not be presented as part of the foreign language requirement for the BA degree. Fall, spring.

**4315 METHODS OF TEACHING FOREIGN LANGUAGE** Modern methods of instruction in foreign language, English as a second language, and culture. Materials, planning, and classroom techniques are emphasized. May not be presented as part of the foreign language major or minor requirements. Prerequisite: Consent of chair. Spring.

**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/*explanation 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.

**4350 ADVANCED CONVERSATION AND PHONETICS** Development of advanced oral proficiency including a study of French pronunciation habits. Discussion/lecture. Prerequisite: FREN 2320 or consent of chair. On demand.

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

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

## COURSES IN GERMAN (GERM)

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

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

**1305 READING GERMAN** Introduction for the beginning student who wishes to concentrate on developing reading skills. Articles in the natural sciences, humanities, and social sciences. GERM 1305 does not count toward the BA requirement. Discussion/lecture. On demand.

**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)

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

**1211, 2212 COMMUNICATION IN SPANISH I AND II** Oral practice of Spanish in social, travel, and business situations. On demand.

**1310 ELEMENTARY SPANISH I** Beginning study of Spanish. Basic communication skills are emphasized. Fall, spring.

**1320 ELEMENTARY SPANISH II** Designed for students with some

previous experience in Spanish. Continued study of the elements of Spanish and practice in communication skills. Prerequisite: SPAN 1310 or consent of chair. Fall, spring.

**2300 INTERMEDIATE SPANISH** Practical communication skills with emphasis on intermediate-level proficiencies using culturally authentic materials. Designed for the generalist, in particular the BA student. Does not apply toward major/minor requirements. Prerequisite: SPAN 1320 or consent of chair. Fall, spring.

**2310 SPANISH CONVERSATION AND COMPOSITION I** Basic review followed by active use of reading, writing, speaking and listening skills. Discussion/lecture. Prerequisite: SPAN 1320 or consent of chair. Fall, spring.

**2320 SPANISH CONVERSATION AND COMPOSITION II** Further review of Spanish with practice of reading, writing, speaking and listening skills. Discussion/lecture. Prerequisite: SPAN 2310 or consent of chair. Fall, spring.

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

**3160, 3260 PRACTICUM IN SPANISH** 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: SPAN 2310 or consent of chair. On demand.

**3300 ADVANCED GRAMMAR AND COMPOSITION I** Intensive practice in writing and speaking idiomatic Spanish, including business and social correspondence. Discussion/lecture. Prerequisite: SPAN 2320 or consent of chair. Fall, spring.

**3303 ADVANCED GRAMMAR AND COMPOSITION II** Continued practice in writing and speaking idiomatic Spanish, including business and social correspondence. Discussion/lecture. Prerequisite: SPAN 2320 or consent of chair. Fall, spring.

**3312 SPANISH CIVILIZATION** Survey of historical, literary, and artistic elements of Peninsular society with an analysis of modern Spanish customs and social issues. Discussion/lecture. Prerequisite: SPAN 3300 or 3303 or consent of chair. On demand.

**3313 LATIN-AMERICAN CIVILIZATION** Survey of Pre-Columbian civilizations, historical, literary and artistic trends with an analysis of modern Latin-American society. Discussion/lecture. Prerequisite: SPAN 3300 or 3303 or consent of chair. On demand.

**3320 HISPANIC LITERATURE I** Introduction to Spanish literature,

with emphasis on Spain. Discussion/lecture. Prerequisite: SPAN 3300 or 3303 or consent of chair. On demand.

**3321 HISPANIC LITERATURE II** Literature of the Hispanic world, with emphasis on Latin America. Discussion/lecture. Prerequisite: SPAN 3300 or 3303 or consent of chair. On demand.

**3398 TRAVEL SEMINAR IN MEXICO** Cross-listed with history and sociology. Intensive study in Mexico on various levels. Classes in Spanish conversation, Mexican/Latin American history, culture, and literature. Living accommodations with Mexican families. May be offered for satisfaction of the BA foreign language requirement only if one other Spanish course is taken in residence. Prerequisite: SPAN 2320 or consent of chair. Summer only.

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

**4350 ADVANCED GRAMMAR AND PHONETICS** In-depth examination of the elements of Spanish grammar along with a study of the phonetic principles of the language. Discussion/lecture. Prerequisite: SPAN 3300 or 3303 or consent of chair. On demand.

**4360 SPANISH FOR MEDICAL PROFESSIONS** A topics course designed to provide intensive study of vocabulary, grammatical structures, interview techniques, and cultural information useful to health care professionals. Students will examine current issues related to serving the medical needs of the Hispanic population. The course will be tailored to one of the health professions. May not be presented as part of the Spanish major or minor requirements. Prerequisite: SPAN 2320 or consent of the chair. On demand.

**4395 ADVANCED HISPANIC LITERATURE** Theme course. Special studies in various genres, literary movements, or authors. May be repeated for credit under different topics. Discussion/lecture. Prerequisites: 3300 or 3303 and 3312 or 3321 or consent of chair. On demand.

**4396 HISPANIC STUDIES** Theme course. Special studies relating modern analytical essays and writings to sociological, political, cultural, and philosophical aspects and/or trends in the Spanish-speaking world. May be repeated for credit under different topics. Discussion/lecture. Prerequisites: 3300 or 3303 and 3313 or 3321 or consent of chair. On demand.

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

# GEOGRAPHY

**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 an academic discipline for understanding the patterns of human societies and physical environments on the surface of the earth. Fall, spring, summer.

**1315 INTRODUCTION TO PHYSICAL GEOGRAPHY** Required for majors and minors in geography, majors in environmental science, and minors in geographic information science. In a lecture and discussion format, this course is a topical assessment of the spatial diversity of the natural environment, including landforms, weather and climate, soils, vegetation, and water, along with their significance in terms of human occupation of the earth. Fall, spring, summer.

**1320 INTRODUCTION TO HUMAN GEOGRAPHY** Required for majors and minors in geography and minors in geographic information science. In a lecture and discussion format, this course examines the spatial variability of human characteristics across the surface of the earth. Topics include the geography of culture, population, language, religion, settlement, agriculture, urbanization, and political activities. Fall, spring, summer.

**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 investigated, the components and procedures of the daily weather forecasts are described, and the world's climates analyzed. Prerequisite: None. Fall.

**3361 GEOGRAPHY OF LANDFORMS** An upper-division elective. Using a lecture and laboratory format, this course examines the landforms of the earth's surface including those resulting from diastrophism, volcanism, plate tectonics, weathering, mass movement, running water, karst, glacial ice, periglacial environments, wind, and

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

**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.



**4160, 4260, 4360 SPECIAL PROBLEMS IN GEOGRAPHY** An elective for geography majors and minors. Independent readings, discussions, and writings are completed in specific areas of geography that are of particular interest to the student. Credit from one to three

semester hours may be earned in one semester. May be repeated for a total of six hours, but only three hours may be applied toward the major. Prerequisite: 12 semester hours in geography and consent of instructor. Fall, spring, summer.

# HISTORY

**Interim Chair and Associate Professor:** Dr. Jones, 450-3158  
**Professors:** Dr. Barnes, Dr. Brodman, Dr. Corcoran, Dr. Pouwels, Dr. Readnour, Dr. Schuyler, Dr. Taylor, Dr. Thompson  
**Associate Professors:** Dr. Hammond, Mr. Webb  
**Assistant Professors:** Dr. Gordy, Dr. Foote  
**Visiting Assistant Professors:** Dr. Bonhomme, Dr. Loar, Dr. McClelland-Nugent, Dr. Moyer, Dr. Sindelar (on leave 2000–2001)  
**Instructors:** Mrs. Carter, Mr. Gould

**Major in History ..... 36 hours**

Three hours of HIST 1310 or 1320 beyond the general education minimum; HIST 2301, 2302 (upper-division US history hours may be substituted with departmental approval); HIST 2320; HIST 4300; history electives, 21 hours (must include at least 6 hours from US history and 6 hours from world history courses excluding HIST 4310). At least 15 hours must be upper-division.

**Minor in History ..... 24 hours**

HIST 1310, 1320, 2301, 2302 (upper-division US history may be substituted with departmental approval); history electives, 12 hours excluding HIST 4310. At least 6 hours must be upper-division.

***Bachelor of Science***

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

**Major in History ..... 36 hours**

Three hours of HIST 1310 or 1320 beyond the general education minimum; HIST 2301, 2302 (upper-division US history hours may be substituted with departmental approval); HIST 2320; HIST 4300; history electives, 21 hours (must include at least 6 hours from US history and 6 hours from world history courses excluding HIST 4310). At least 15 hours must be upper-division.

**Minor in History ..... 24 hours**

HIST 1310, 1320, 2301, 2302 (upper-division US History may be substituted with departmental approval); history electives, 12 hours excluding HIST 4310. At least 6 hours must be upper-division.

***Bachelor of Science in Education in Social Studies, History Emphasis***

*Note: Teacher preparation programs in secondary education are currently under review. For information about teacher preparation programs or social study licensure requirements, contact the Chair of the Department of History (450-3158), the Chair of the Department of Curriculum and Instruction (450-3172), or the Director of Professional Field Services (450-3131).*

## PURPOSES

History is at the center of a liberal arts education. It provides us not only with a memory of the past—a sense of how people, groups, states, and nations arrived at where they are now—but also perspectives on other cultures and civilizations, past and present, and an appreciation for the varieties and ambiguities of the human experience. By educating students about their own past and the past of others, using evidence from different times and places, the Department of History seeks to prepare people for responsible citizenship at home and in the world community.

The department stresses the development of critical reading and thinking skills, reasoning, oral and written communication, and the analysis and interpretation of conflicting evidence. Above all, the history program emphasizes the cultivation of sensitivity to human differences and values. Historical study prepares students for careers in teaching, law, journalism, public history, local, state, and national service, business, and graduate study in history or in other disciplines.

## THE HONORS PROGRAM IN HISTORY

Upper-division students who are history or social studies majors and who are invited to study for honors in history should take HIST 3388 Tutorial Studies in American History or HIST 3389 Tutorial Studies in World History. Students who complete one of these courses and submit an honors thesis are eligible to graduate with honors.

## BACCALAUREATE DEGREES

### ***Bachelor of Arts***

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

## 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. Provides an understanding of the development of the American people beginning with the age of exploration and culminating with the Civil War/Reconstruction period. Lecture and discussion, critical analysis of documents, and writing. Fall, spring, summer I.

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

**2320 INTRODUCTION TO HISTORICAL RESEARCH** Required for BA/BS and BSE-Social Studies (history emphasis) majors. A hands-on course emphasizing the basic skills necessary for historical research, critical analysis of historical texts, and historical writing and discussion. Lecture, discussion and participation in classroom assignments. Fall.

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

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

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

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

**4301 AMERICAN ENVIRONMENTAL HISTORY** Upper-division elective. Examines the changing relationship between humans and their environment from the colonial period to the present. Lecture, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**4308 AMERICAN WOMEN'S HISTORY** Upper-division elective. Examines the history of American women from the colonial period to the present. Emphasis on class, race, and ethnic differences. Lecture, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**4311 AMERICAN COLONIAL AND REVOLUTIONARY HISTORY** Upper-division elective. Examines the age of exploration and colonization and developments leading to the American Revolution, 1492–1783. Emphasis on the contribution of the era to American political, social, and intellectual tradition. Lecture, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**4322 EARLY NATIONAL HISTORY, 1783–1850** Upper-division elective. Examines the winning of independence to the Compromise of 1850. Topics examined include the constitutional convention, the growth of political parties, territorial expansion, and sectional tensions. Lecture, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**4325 AMERICAN LIFE AND THOUGHT TO 1865** Upper-division elective. Examines political and social thought and cultural trends from the Puritan era to the Civil War period. Lecture, discussion, documentary analysis, writing. On demand.

**4326 AMERICAN LIFE AND THOUGHT SINCE 1865** Upper-division elective. Examines political and social thought and cultural trends since 1865. Lecture discussion, documentary analysis, writing. On demand.

**4327 THE AMERICAN WEST** Upper-division elective. Examines the influence of the frontier and of western expansion on the history of the United States. Lecture, discussion, documentary analysis, writing. On demand.

**4330 THE CIVIL WAR AND RECONSTRUCTION, 1850–1877** Upper-division elective. Examination of the sectional stress that split the Union in 1861 and led to the formation of the Southern Confederacy, its defeat, and the reunification of the nation. Lecture, discussion, documentary analysis, writing. Fall.

**4335 DIPLOMATIC HISTORY OF THE UNITED STATES** Upper-division elective. Students examine the diplomatic history of the Revolutionary period, the early national era, the Civil War, America's rise to world power, two world wars, and the Cold War. Lecture, discussion, documentary analysis, writing. On demand.

**4340 THE EMERGENCE OF MODERN AMERICA, 1877–1920** Upper-division elective. Students examine the conquest of the last western frontier, the rise of big business, progressivism, and the United States as a world power. Lectures, discussion, analysis of documents, writing. On demand.

**4345 THE SOUTH TO 1865** Upper-division elective. Minor in Southern and Arkansas studies. Students study the history of the old South with an emphasis on southern nationalism, slavery, politics, and social and intellectual developments. Lecture, discussion, analysis of documents, writing. On demand.

**4346 THE SOUTH SINCE 1865** Upper-division elective. Minor in Southern and Arkansas studies. Students study the re-integration of the South back into the Union, the problems faced by the region, and their legacy to the present. Lecture, discussion, analysis of documents, writing. On demand.

**4350 AMERICA SINCE 1920** Upper-division elective. Students examine twentieth-century political, social, economic, and intellectual developments. Topics include the twenties, the Depression, America in World War II, and the Cold War. Lecture, 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.

**4355 THE ROLE OF ARKANSAS IN THE NATION** Required for BSE; upper-division elective for history major. Students examine United States history as reflected in the history of Arkansas. Emphasis on the ways Arkansas reflects or departs from national trends. Lecture, discussion, analysis of documents, participatory classroom activities, writing. Fall, spring, summer on demand.

**4386 THE WAR IN THE PACIFIC, 1931–1945** Upper-division elective. Students critically evaluate Japanese-American relations, covering such topics as Asian nationalism, Western imperialism, and Japanese expansion. Counts as United States or world history. Lecture, discussion, analysis of documents, writing.

## *World History*

**1310 WORLD HISTORY I** Satisfies part of the general education world cultural traditions requirement. Satisfies BA, BS, BSE-Social Studies (history emphasis) major requirement for three hours of world history beyond general education requirement. Required for history and BSE-Social Studies (history emphasis) minor. Students examine major contributions to the advancement of global civilizations from ancient times to the early modern period (circa 1600). Lecture, discussion, analysis of documents, writing. Fall, spring, summer.

**1320 WORLD HISTORY II** Satisfies part of the general education world cultural traditions requirement. Satisfies BA, BS, BSE-Social Studies (history emphasis) major requirement for three hours of world history beyond general education requirement. Required for history and BSE-Social Studies (history emphasis) minor. Students examine development of modern industrial and urban society from its European base in the seventeenth century to its worldwide impact in the twentieth century. Lectures, discussion, analysis of documents, writing. Fall, spring, summer.

**3303 ASIAN CIVILIZATION I** Upper-division elective. Asian studies minor. Religious studies major. Introduces students to the traditional cultures of China, Japan, and South Asia to 1800. Lectures, discussion, analysis of documents, writing. Fall.

**3304 ASIAN CIVILIZATION II** Upper-division elective. Asian studies minor. Introduces students to the process of modernization as experienced in China, Japan, and South Asia in modern times. Lectures, discussion, analysis of documents, writing. Spring.

**3312 COMPARATIVE MODERN THIRD WORLD HISTORY** Upper-division elective. The course compares and contrasts the modern history of the Middle East, Africa, and Latin America through one “representative” country from each region. Lectures, discussion, analysis of documents, writing. On demand.

**3315 FROM COLUMBUS TO CASTRO: AN INTRODUCTION TO LATIN AMERICA** Upper-division elective. Latin American studies minor. Students study Latin American history from the pre-Columbian period to the present with special attention to the conditions that have shaped Latin American societies, economies, and politics. Lectures, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**3320 HISTORY OF CHRISTIANITY I** Upper-division elective. Religious studies major. Students examine the major themes and developments in Christianity from the first century to the eve of the Reformation. Lectures, discussion, analysis of documents, writing. On demand.

**3321 HISTORY OF CHRISTIANITY II** Upper-division elective. Religious studies major. Students examine the major themes and developments in Christianity from the Reformation to present times. Lectures, discussion, analysis of documents, writing. On demand.

**3351 ANCIENT CIVILIZATION** Upper-division elective. Students study the Near East, Greece, and Rome, with an emphasis on politics and culture, to 476 AD. Lectures, discussion, participatory classroom activities, analysis of documents, writing. On demand.

**3389 TUTORIAL STUDIES IN WORLD HISTORY** Upper-division elective. Directed reading in world history. Preparation for an honors thesis to be written during the student’s senior year. Discussions with instructor, research, writing. Prerequisite: Consent of instructor and department chair. On demand.

**4305 LATIN AMERICA THROUGH HISTORY, FILM, AND LITERATURE** Upper-division elective. Latin American studies minor. Students use historical readings, film, and literature to study major themes in the development of Latin American society. Topics range from authoritarianism and revolution to race relations, gender, and inequality. Lectures, discussions, films, participatory classroom activities, writing. On demand.

**4309 WOMEN IN EUROPEAN HISTORY** Upper-division elective. Students use a variety of primary and secondary sources to study the role of women and gender in European history. Lectures, discussion, analysis of documents, participatory classroom activities, writing. On demand.

**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, and intellectual development during the High Middle Ages. Lectures, discussion, analysis of documents, writing. On demand.

**4370 EUROPE, 1815–1914** Upper-division elective. Students examine Europe’s political and cultural development from the Vienna Congress to the eve of World War I. Lectures, discussion, analysis of documents, writing. Spring, even years.

**4371 HISTORY AND BIOGRAPHY** Upper-division elective. Students explore the place of biography in the writing of history, together with the development of biographical techniques. Lectures, discussion, analysis of documents, writing. On demand.

**4374 THE EUROPEAN RENAISSANCE AND REFORMATION** Upper-division elective. Students explore the major themes, subjects, and personalities of the early modern age in Europe. Lectures, discussion, analysis of documents, writing. On demand.

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

**4377 THE CONTEMPORARY WORLD** Upper-division elective. World War II, the Cold War, and other major chapters in modern civilization. Lectures, discussion, analysis of documents, writing. On demand.

**4378 ABSOLUTISM, ENLIGHTENMENT, AND REVOLUTION** Upper-division elective. Students explore major themes in European history in the seventeenth and eighteenth centuries concluding with the French Revolution. Lectures, discussion, analysis of documents, writing. On demand.

**4379 SPAIN: CRUSADE, COLUMBUS, AND EMPIRE** Upper-division elective. Students explore major factors in the rise and decline of Iberia during the early modern era, plus an examination of early exploration and colonialism. On demand.

**4380 CZARIST RUSSIA** Upper-division elective. Introduces students to major themes in Russian history from its beginning to 1917. Lectures, discussion, analysis of documents, writing. Fall.

**4381 MODERN CHINA** Upper-division elective. Asian studies minor. Students explore Chinese history in the nineteenth and twentieth centuries. Lectures, discussion, analysis of documents, writing. On demand.

**4382 RUSSIA SINCE 1917** Upper-division elective. Students examine Russian history from the revolutions of 1917 to the present, emphasizing topics such as the Revolution, the Civil War, the Great Purges, World War II, the post-Stalin era, and the collapse of the Soviet Union. Lectures, discussion, analysis of documents, writing. Spring.

**4383 MODERN JAPAN** Upper-division elective. Asian studies minor. Students explore the history of Japan since 1800, including such topics as the overthrow of feudalism, the Meiji Restoration, the struggle for representative government, imperialism, ultranationalism, militarism, and the “economic miracle.” Lectures, discussion, analysis of documents, writing. Fall, odd years.

**4385 FRENCH REVOLUTION AND NAPOLEON** Upper-division elective. Students examine the causes of the revolution and its impact on France and Europe with emphasis on social, political, and economic changes through revolution and the reforms of Napoleon. Lectures, discussion, analysis of documents, writing. On demand.

**4386 THE WAR IN THE PACIFIC, 1931–1945** Upper-division elective. Students critically examine Japanese-American relations covering such topics as Asian nationalism, Western imperialism, and Japanese expansion. Counts as either United States or world history. Lectures, discussion, analysis of documents, writing. On demand.

**4387 THE ISLAMIC MIDDLE EAST** Upper-division elective. Religious studies major. Students explore Islamic civilization and recent history of the Middle East. Emphasis on the development of Islam as

a major religion and total lifestyle and Islamic revisionism, Arab nationalism, revival of Islamic fundamentalism, and conflicting Arab-Israeli aspirations and claims. Lectures, discussion, analysis of documents, writing. On demand.

**4388 AFRICAN HISTORY** Upper-division elective. Students explore cultural changes and problems of African modernization. Lectures, discussion, analysis of documents, writing.

**4393 THE RISE OF GERMANY, 1648–1918** Upper-division elective. Students examine German history from the Thirty Years War to World War I, with special attention devoted to the German character and culture and to Bismarck, the man responsible for creating the modern German Reich. Lectures, discussion, analysis of documents, writing. On demand.

**4394 GERMANY SINCE 1918** Upper-division elective. Students examine German history since World War I, including the Weimar Republic, Third Reich, World War II, and the division and reunification of postwar Germany. Lectures, discussion, analysis of documents, writing. On demand.

## SPECIAL COURSES

**4300 SEMINAR** Required for history BA, BS, and BSE-Social Studies (history emphasis) majors. Emphasis on studying and practicing historical research, and writing. Students research and write a major paper on a topic of their choice. Discussion, research and writing assignments, oral presentations, analysis of documents and sources. Prerequisite: 21 hours in history. Fall, spring, summer.

**4310 TEACHING SOCIAL STUDIES** Required for BSE-Social Studies (history emphasis) An examination of the problems of teaching history and the related social studies in middle and secondary schools focusing on the curriculum and the methods and techniques used by successful teachers in both history and related social studies. Credit is given only when taken in lieu of ADSE 4300. Lectures, discussion, analysis of documents, writing, participatory classroom activities. Fall, spring.

**4191, 4192, 4193 TOPICS IN HISTORY** Upper-division elective. Students study special topics in history to be determined by the needs of students who enroll. This course can be repeated for credit and may be counted as either United States or world history. Lectures, discussion, analysis of documents, writing. On demand.

## INTENSIVE ENGLISH PROGRAM

### PURPOSE

The Intensive English Program (IEP) offers a series of language courses to non-native speakers of English at three different levels: low intermediate, high intermediate, and advanced. The multi-level, multi-skill program strives to enable students to function on a day-to-day basis in an English-speaking environment, prepare them to successfully complete academic work in regular university courses, and introduce them to American culture. TOEFL (Test of English as a Foreign Language) preparation skills are also emphasized, and the Institutional TOEFL is administered each semester.

The program provides training to

1. International undergraduate or graduate students applying for admission to a US college or university who must first improve their language skills.
2. International undergraduate or graduate students who have been admitted to UCA but require or desire further language preparation.
3. Community residents who wish to improve their language skills for personal or professional purposes.
4. International groups that require specialized language and cultural courses and activities.

### APPLICATION PROCESS

International applicants to the Intensive English Program must submit the following:

1. Application for admission.
2. Non-refundable application fee of US \$40.00 drawn from a US bank, or an international money order.
3. Evidence of sufficient financial support in the form of a certified bank statement from the applicant's financial sponsor proving the availability of a minimum of \$12,900.00 for one full academic year (9 months) of study. Tuition and fees must be paid in full at the beginning of each semester or summer session.
4. Original or certified copies of all secondary, college, and university academic transcripts, including certified English translations, if applicant is also applying for conditional admission to UCA in order to pursue an undergraduate degree after completing the IEP.
5. TOEFL score, if available, although it is not required for admission to the IEP.

Other applicants, including immigrants, permanent residents, citizens, and refugees must submit the following:

1. Application for admission.
2. Non-refundable application fee of US of \$40.00 drawn from a US bank, or an international money order.

- 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.
- 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.

### **Facilities and Services**

Offices are located in Irby Hall, and classrooms are located in Irby Hall, Mashburn Hall, and the Burdick Business Administration Build-

ing. IEP students have access to UCA's language, computer, and writing laboratories and all other UCA facilities and services.

### **Room and Board**

Incoming IEP students normally live on campus in university residence halls and eat in the university cafeteria.

## FURTHER INFORMATION

For more information regarding the Intensive English Program, contact:

Intensive English Program Coordinator  
 Department of Foreign Languages  
 207 Irby Hall  
 University of Central Arkansas  
 Conway, AR 72035 U.S.A.  
 Telephone: (501) 450-3168  
 Fax: (501) 450-5185  
 Email: phillipb@mail.uca.edu

## INTENSIVE ENGLISH PROGRAM COURSES (IEP)

**0310 LISTENING AND SPEAKING** Focuses on the sound system of English, listening discrimination, and aural comprehension in various situations including academic class work. Practices listening and comprehensive note-taking strategies. Emphasizes pronunciation, intonation, conversational techniques, oral discussions, and informal and formal speeches. Meets 5 hours per week. Three levels. Prerequisite: Admission to IEP.

**0320 GRAMMAR** Focuses on irregular and regular verbs, appropriate use of tenses, complex and compound sentence formation, and parallelism and complementation in the context of speaking and writing. Meets 5 hours per week. Three levels. Prerequisite: Admission to IEP.

**0330 READING** Focuses on content comprehension, including recognition and analysis of main and supporting ideas, and vocabulary development. Highlights reading techniques, including skimming and scanning. Introduces differentiating fact from fiction, inferring meaning, and recognizing point of view, tone, symbolism, and abstractions. Emphasizes materials of all lengths, including technical and non-technical subjects. Meets 5 hours per week. Three levels. Prerequisite: Admission to IEP.

**0340 WRITING** Focuses on development of simple sentence, paragraph, multi-paragraph and multi-page themes, reports, and research papers. Emphasizes vocabulary, complex sentence patterns, transitions, and organizational patterns. Introduces journal writing, letter writing, and outlining. Meets 5 hours per week. Three levels. Prerequisite: Admission to IEP.

# PHILOSOPHY AND RELIGION

**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  
**Instructor:** Ms. Winden Fey

## PURPOSES

The Department of Philosophy and Religion offers a degree program with a major in philosophy. Within this program students can emphasize religion, social and political philosophy, continental philosophy, or analytic philosophy. The department administers the interdisciplinary degree program in religious studies (see p. 162). The philosophy program serves all academic disciplines by the examination and analysis of the major ideas which have shaped our civilization and by the development of skills in critical thinking. The interdisciplinary religious studies program introduces students to the basic methods and subject matter of the critical study of religion. Philosophy and religion courses are designed both to contribute to a broad liberal education and to enrich more vocationally oriented programs. Both the major and minor in philosophy and religious studies are designed to provide the core of a liberal arts education for students interested in graduate, professional, or divinity school. They also provide broad, non-specialized degrees for those who desire career flexibility.

A student who majors in philosophy will acquire a fundamental understanding of philosophy, which includes an understanding of the central problems of philosophy, a comprehension of the various methods of philosophical inquiry and discourse, a knowledge of the historically significant philosophers and philosophical movements, a knowledge of the fundamental principles of logic and an understanding of the basic theories of ethics. A student who majors in philosophy will achieve a satisfactory level in the application of critical thinking skills and will be able to write a philosophical paper.

## THE HONORS PROGRAM IN PHILOSOPHY

Students who major in philosophy and who demonstrate exceptional ability may be asked to enter the philosophy honors program. This program is designed to prepare the student for graduate work in philosophy. In addition to the courses required for a major in the area, the student must elect PHIL 4301 Philosophy Honors Tutorial.

## BACCALAUREATE DEGREES: BACHELOR OF ARTS/ BACHELOR OF SCIENCE

The degree of Bachelor of Arts or Bachelor of Science, with a major in philosophy, 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 Philosophy ..... 33 hours

PHIL 2310 or 3310; 3320 or 3325; 3300; 3302; and two courses from 3301, 3303, 3304, 4305, and 4306; 4310 plus 12 hours of philosophy electives.

Only one of PHIL 1301, 2305, 2325, 2360, and RELG 1320 will count toward a major or minor.

## Minor in Philosophy ..... 21 hours

PHIL 2310 or 3310; 3320 or 3325; and three courses from 3300, 3301, 3302, 3303, 3304, 4305, and 4306; plus 6 hours of philosophy electives.

Only one of PHIL 1301, 2305, 2360, 2325, and RELG 1320 will count toward a major or minor.

## COURSES IN PHILOSOPHY (PHIL)

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

**2300 EXISTENTIAL PROBLEMS IN PHILOSOPHY** Critical introductory study of existential problems in philosophy. For students who want a more advanced introduction to philosophy. Combines lecture and discussion methods. On demand.

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

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

**2321 BUSINESS ETHICS** An elective for majors and minors in philosophy but also open to interested students, especially those majoring in business areas. An introduction to ethical issues in busi-

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 problem in philosophy or the works of individual philosophers or groups



of philosophers. Content changes on demand. May be repeated for credit. See semester schedule for description of content. On demand.

**4300 READINGS IN PHILOSOPHY** Independent study designed to deal in depth with specific problems and individuals in philosophy. Prerequisite: Consent 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, Sartre, Gadamer, Derrida, and Foucault. Combines lecture and discussion methods. Spring, even years.

**4306 TWENTIETH-CENTURY ANALYTIC PHILOSOPHY** One of the history of philosophy sequence. A study of empiricist metaphysics and epistemology in the twentieth century including philosophers such as Russell, Wittgenstein, Ayer, Lewis, Ryle, Quine, and Davidson. Combines lecture and discussion methods. Fall, even years.


**4310 SENIOR THESIS IN PHILOSOPHY** Individual research leading to the writing of a major philosophical paper. Required of all majors.


**4350 HEALTH CARE ETHICS** An elective designed primarily for students of the health sciences, physical therapy specifically, but also will count toward a major or minor in philosophy. A study of the issues and principles of ethics related to health care. Topics include ethical reasoning, bioethics, and individual case studies of problems arising within the practice of various health care fields. Prerequisite: One philosophy course or consent of the instructor. Spring.

## COURSES IN RELIGION (RELG)

**1320 WORLD RELIGIONS** A general education elective in the world cultural traditions area and encouraged for all students majoring or minoring in the religious studies program. This course introduces students to the study of great religions of the world—Hinduism, Buddhism, Islam, Judaism, Christianity, and others—by examining their history, beliefs, moral teachings, rituals, and practices. Combines lecture and discussion. Fall, spring.

**2301 INTRODUCTION TO RELIGIOUS STUDIES** A required course for all students majoring or minoring in religious studies, an elective for other interested students, and counts toward the major or minor in philosophy. Introduces students to the study of religion focusing on methodological approaches, forms of religious expression, perennial issues in religious world views, and issues facing religion in the modern world. Combines lecture and discussion. On demand.

 **2331 JEWISH BIBLE** An optional core course for all students majoring or minoring in religious studies, an elective for other interested students, and counts toward the major or minor in philosophy. Critically studies the major teachings of the Old Testament. Combines lecture and discussion. On demand.

 **2332 CHRISTIAN BIBLE** An optional core course for all students majoring or minoring in religious studies, an elective for other interested students, and counts toward the major or minor in philosophy. Critically studies the major teachings of the New Testament. Combines lecture and discussion. On demand.

**3315 RELIGION AND CULTURE** An elective course for all students majoring or minoring in religious studies, an elective for students in other programs who may have an interest in the topic, and counts toward the major or minor in philosophy. An examination of relationships between religious thought and experience and various other forms of cultural expression, such as the natural sciences, the human sciences, ethical, social, or political perspectives, or the arts. For any given semester one area of interest in religion and culture will be explored. Combines lecture and discussion. May be repeated for credit. Prerequisite: Consent of instructor. On demand.

## POLITICAL SCIENCE

**Chair (Geography, Political Science, and Sociology) and Professor:** Dr. Hy, 450-3164

**Professors:** Dr. Kelley, Dr. Veasey, Dr. Weekin, Dr. Whistler

**Associate Professors:** Dr. McInnis, Dr. J. Passé-Smith

**Laboratory Instructor:** Ms. M. Passé-Smith

### PURPOSES

The primary objective of the undergraduate political science program, located in the Department of Geography, Political Science, and Sociology, is to provide students with the conceptual and analytical tools for understanding political institutions and processes. The political science curriculum is designed to satisfy the needs of (1) those students desiring to major or minor in political science and (2) those

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

1. Major in political science, including public administration;
2. A minimum overall grade point average of 3.25 and a 3.40 grade point average in political science/public administration;
3. Enrollment in PSCI 4399 during first semester of senior year; and
4. Departmental approval of the honors research project prior to graduation.

### BACCALAUREATE DEGREES

#### *Bachelor of Arts/Bachelor of Science in Political Science*

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

#### **Major in Political Science ..... 33 hours**

All political science majors are required to take PSCI 2300, 2312, 2320, and 2340; six hours at the 3000 level or above from each of the "issue areas" (see below); and three hours at the 3000 level or above of political science electives. PSCI 1330 is a prerequisite for all junior- and senior-level classes.

#### **Minor in Political Science ..... 21 hours**

PSCI 2300, 2320, and 2340; three hours at the 3000 level or above from each of the "issue areas" (see below); and three hours at the 3000 level or above of political science electives. PSCI 1330 is a prerequisite for all junior- and senior-level classes.

#### **Issue Areas**

**American Government and Public Administration:** PSCI 3330, 3350, 3360, 3361, 3365, 3375, 4300, 4301, 4334, 4335, 4336, 4351, 4391.

**International Relations and Comparative Politics:** PSCI 3340, 3382, 4310, 4345, 4346, 4388, 4395.

**Political Theory and Methods:** PSCI 3313, 3370, 3371, 3372, 4331.

#### **Bachelor of Science in Public Administration**

The degree of Bachelor of Science, with a major in public administration, requires successful completion of 124 hours, including (1) the general education component, (2) MATH 1390 or 1395 and MATH 2311, and (3) the major listed below. No minor is required.

#### **Major in Public Administration ..... 60 hours**

**Core Requirements** (39 hours): PSCI 1330, 2340, 3360, 3361, 3365, 4391, 4610; ACCT 2310, 2311; ECON 2320, 2321; MGMT 3340.

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

**Public Management:** ECON 4344; MGMT 4345, 4348; FINA 3330; ACCT 3314, 4304; PSCI 4334.

**Public Policy:** PSCI 4300 or 4301, 4335, 4336, 4391.

**Planning:** PSCI 4336, 4351; GEOG 2302, 2340, 3305, 3371, 4313.

### COURSES IN POLITICAL SCIENCE (PSCI)

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

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

**2312 STATISTICAL METHODS FOR POLITICAL ANALYSIS** A requirement for the PSCI major and an elective for the minor (but not limited to majors and minors). An introduction to descriptive and inferential statistics, hypothesis testing, and displaying of data in various formats. Lecture and discussion. Prerequisite: PSCI 1330. Fall.

**2320 INTRODUCTION TO COMPARATIVE POLITICS** A requirement for the PSCI major and minor (but not limited to majors and minors). A study of the concepts and methods of comparative politics. Special emphasis is given to comparing the types and forms of political systems and the political processes they undergo. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

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

**3313 RESEARCH DESIGN** An elective for the PSCI major and minor (but not limited to majors and minors). An in-depth examination of strategies available for performing social science research. Includes experimental, quasi-experimental, non-experimental, and survey research designs. Lecture and discussion. Prerequisite: PSCI 2312. Spring, on demand.

**3330 POLITICAL PARTIES AND ELECTORAL PROBLEMS** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the roles, organization, and operation of American political parties as well as the role of partisanship and other variables in American electoral behavior. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

**3340 GOVERNMENTS OF EUROPE** An elective for the PSCI major and minor (but not limited to majors and minors). A comparative study of the political systems of selected European countries and the European Union. Lecture and discussion. Prerequisites: PSCI 1330 and 2300. Spring, on demand.

**3350 INTEREST GROUPS AND MONEY IN POLITICS** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the roles and practices of organized interest groups in the American political process, from the financing of candidates for public office through the influencing of decision-makers and of public policy. Special attention is given to how campaign donations structure officeholders, incentives. Lecture, discussion, and computer laboratory. Prerequisite: PSCI 1330. On demand.

**3360 PUBLIC ADMINISTRATION** An elective for the PSCI major and minor (but not limited to majors and minors). An introduction to the concepts, structures, and procedures of the bureaucratic process. Lecture and discussion. Prerequisite: PSCI 1330. Fall.

**3361 PUBLIC POLICY** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the public policy process with focus on various theories of public policy and specific policy areas. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

**3365 INTERGOVERNMENTAL RELATIONS** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the relationships among federal, state, and local government in the United States. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

**3370 POLITICAL THEORY I** An elective for the PSCI major and minor (but not limited to majors and minors). A study of Western political thought from the early Greeks to the nineteenth century. Lecture and discussion. Prerequisite: PSCI 1330. Fall.

**3371 POLITICAL THEORY II** An elective for the PSCI major and minor (but not limited to majors and minors). A descriptive analysis

of the normative and empirical aspects of political thought from the nineteenth century to the present. Lecture and discussion. Prerequisite: PSCI 1330. Spring.

**3372 POLITICAL BEHAVIOR** An elective for the PSCI major and minor (but not limited to majors and minors). A study of public opinion, electoral behavior, and other forms of political behavior. Various techniques of empirical analysis are applied to the understanding of these behaviors. Lecture and discussion. Prerequisites: PSCI 1330 and 3311. Spring, on demand.

**3375 THE AMERICAN JUDICIAL SYSTEM** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the US legal system with emphasis upon the structure of federal and state courts, court procedure, the role of lawyers and judges, and the political impact of court decisions. Lecture and discussion. Prerequisite: PSCI 1330. Fall, on demand.

**3382 POLITICS OF DEVELOPING NATIONS** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the causes and consequences of political and economic development in the "Third World." Lecture and discussion. Prerequisite: PSCI 1330. Every three semesters beginning fall 1999.

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

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

**4310 INTERNATIONAL POLITICAL ECONOMY** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the politics of international economic relations, with an emphasis on international institutions such as the World Bank Group and the International Monetary Fund. Lecture and discussion. Prerequisite PSCI 1330. Every three semesters beginning spring 2000.

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

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



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

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

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

**4345 POLITICAL SYSTEMS OF SUB-SAHARAN AFRICA** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the political systems in Sub-Saharan Africa with case studies of selected countries. Special problems of multi-racial and multi-cultural societies are examined. Lecture and discussion. Prerequisite: PSCI 1330 and 2300. Fall, even years.

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

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

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

**4395 WAR: THE POLITICS OF VIOLENCE** An elective for the PSCI major and minor (but not limited to majors and minors). A study of the phenomena of war. The history of war as well as its etiology and utility in the modern age will be the primary foci. Lecture and discussion. Spring, odd years.

**4610 INTERNSHIP IN PUBLIC ADMINISTRATION** An elective for the PSCI major and minor (but not limited to majors and minors). This course provides a structured, supervised learning experience in a government or public-related agency. Prerequisite: Completion of major requirements. Fall, spring.

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

## SOCIOLOGY

**Chair (Geography, Political Science, and Sociology) and Professor:** Dr. Hy, 450-3164

**Professors:** Dr. Fox, Dr. Shepherd

**Assistant Professors:** Dr. J. Cossman, Dr. Powers, Dr. Wilson

**Instructor:** Ms. Fletcher

### PURPOSES

The primary objective of the undergraduate sociology program, located in the Department of Geography, Political Science, and Sociology, is to provide students with conceptual and analytical tools for understanding the structure and variations of social interaction in human societies. The cultivation of students' abilities to apply what they learn to the practical resolution of social concerns in daily life,

as well as the development of their theoretical knowledge and capacity for scholarly objectivity are all goals of the sociology program.

### THE HONORS PROGRAM IN SOCIOLOGY

Junior or senior students with an overall grade point average of 3.0 or above may, at the invitation of the sociology faculty, be permitted to participate in the honors program in sociology. Successful completion of the program allows the student to graduate with honors in sociology and involves the following:

1. Completion of SOC 4390 taken in consultation with the advisor;
2. An overall grade point average of 3.0;
3. An oral examination conducted by three members of the depart-

- ment as stated in number four below; and
4. Completion of an acceptable research paper based upon reading and research done in SOC 4390 and submitted to three members of the sociology faculty. These three faculty members will conduct the oral examination, which will focus primarily on the research paper.

## **BACCALAUREATE DEGREES: BACHELOR OF ARTS/BACHELOR OF SCIENCE**

The degree of Bachelor of Arts or Bachelor of Science, with a major in sociology, 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 Sociology ..... 33 hours**

Students may declare a major in sociology only after they have completed SOC 1300 with a grade of C or better. All sociology majors are required to take SOC 1300, 2321, 3320, 4330, and 4360. In addition, students are required to take 18 hours as determined by their area of study.

#### **General Sociology**

Sociology electives (18 hours), as selected from the remaining sociology courses.

#### **Criminology Concentration**

Criminology concentration requirements (9 hours), SOC 3370, 3371, 4355. Sociology electives (3 hours minimum), as selected from the remaining sociology courses in consultation with an advisor. Interdisciplinary electives (6 hours maximum), PSCI 3375, PSCI 4300, PSCI 4301, H ED 4312, PSYC 4381.

#### **Medical Concentration**

Medical concentration requirements (9 hours), SOC 4334, 4343, 4335. Sociology electives (3 hours minimum), as selected from the remaining sociology courses in consultation with an advisor. Interdisciplinary electives (6 hours maximum), H ED 4300, H ED 4331, H ED 4312, MKTG 4360, PSYC 4320.

#### **Ethnic Studies Concentration\* (Bachelor of Arts only)**

Ethnic studies concentration requirements (9 hours), SOC 1302, 3310, 3315. Sociology electives (3 hours minimum), as selected from the remaining sociology courses in consultation with an advisor. Interdisciplinary electives (6 hours maximum), GEOG 2362\*\*, GEOG 3315, PSCI 2300, PSCI 2320, PSCI 3382, ECON 3320, ECON, 4320, PHIL 1320.

\*Students must minor in one of the following areas: Asian Studies, Latin American Studies, or African and African-American Studies. \*\*Asian Studies and African and African-American Studies minors must take GEOG 2362. Note that at the time of this bulletin's publication, the African and African-American Studies minor had not received final approval.

### **Minor in Sociology ..... 18 hours**

Eighteen hours of sociology, 9 hours of which must be upper-division.

## **COURSES IN SOCIOLOGY (SOC)**

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

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

**1325 SOCIAL PROBLEMS** An elective for majors and minors. Examination of contemporary social problems, their causes, and proposed solutions. Emphasizes the application of sociological theories to social problems related to the major systems and institutions in our society. Lecture and discussion. Summer, on demand.

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

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

**3310 MINORITY RELATIONS** A requirement for all ethnic studies concentration majors and an elective for other majors and minors. A study of racial and cultural diversity and the dilemmas posed by competing value-systems in complex social environments. Special attention will be given to differences and similarities between recognized racial and ethnic groups in the United States, and key components of the struggle for economic, political, and social survival of minorities will be analyzed. Lecture and discussion. Prerequisite: SOC 1300. Spring.

**3315 NATIVE AMERICAN CULTURES** A requirement for all ethnic studies concentration majors and an elective for other majors and minors. A study of the traditional lifeways of early Native American societies by culture area. Additional emphasis is placed on modern influences on tribal life resulting from treaties, pan-Indianism, and political activities. Lecture and discussion. Prerequisite: SOC 1302 or consent of instructor. Fall, odd years.

**3320 SOCIAL RESEARCH METHODS** A requirement for all majors and an elective for minors. The research methods used in sociology with particular emphasis on student development of a research proposal. Lecture and discussion. Prerequisites: SOC 1300. Fall, spring.

**3340 URBAN SOCIOLOGY** An elective for majors and minors. format The historical development and importance of cities in modern society, the consequences of rural-urban population movements, and the social problems of contemporary urban life. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

**3350 THE FAMILY** An elective for majors and minors. An exploration of common family forms and processes. The topical areas cover a range of family events including mate-selection, childrearing, and divorce. Special emphasis will be placed on family demography, history, research methods, theory, and policy evaluation. Lecture and discussion. Prerequisite: SOC 1300. Fall.

**3360 SELF AND SOCIETY** An elective for majors and minors. An examination of the relationship between the psychology of the self and the social situations in which people act, emphasizing the role that symbols and language play in identity formation and social interaction in everyday life. Lecture and discussion. Prerequisite: SOC 1300. Fall.

**3361 GENDER ROLES** An elective for majors and minors. An in-depth look at gender roles in American society. By examining the social processes by which male and female biology is transformed into culture (gender and/or gender roles), this course seeks to make sense of the continuing differences and inequalities between women's and men's lives. Lecture and discussion. Prerequisite: SOC 1300. Fall.

**3370 CRIMINOLOGY** A requirement for all criminology concentration majors and an elective for other majors and minors. A study of law-breaking behavior in complex social environments. Emphasis is placed on the definition and measurement of crime, methods of crime analysis, and theoretical explanations of crime. Additional emphasis is placed on legal and social policy regarding crime control and prevention. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall, spring, summer.

**3371 JUVENILE DELINQUENCY** A requirement for all criminology concentration majors and an elective for other majors and minors. A study of juvenile rule/status violating behavior. Emphasis is placed on the definition and measurement of delinquency and theoretical explanations for delinquent behavior. Additional emphasis is given to description and evaluation of delinquency control agencies. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall, spring, summer, on demand.

**3381 DEATH AND DYING** An elective for majors and minors. An examination of death and dying as social processes, including the rites, practices, and social meanings associated with death and dying in this society as well as cross-cultural observations of death practices. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall.

**3398 TRAVEL SEMINAR IN A SPANISH SPEAKING COUNTRY** An elective for majors and minors. Cross-listed with SPAN 3398. This course includes four weeks of intensive study with classes in Spanish conversation focusing on health-related issues as well as a sociological exploration of the Hispanic health culture. Students will tour health care facilities and observe medical practices while living with indigenous families. Three hours credit in sociology and three hours credit in Spanish. Prerequisites: SPAN 2320, SOC 1300 or 1302, or consent of instructor. Summer.

**4300 SOCIOLOGY OF RELIGION** An elective for majors and minors. An examination of religion as a social institution and its relationship to other institutions in American society, emphasizing the social development and consequences of religious beliefs and practices for both groups and individuals. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Spring.

**4301 SOCIAL MOVEMENTS AND SOCIAL CHANGE** An elective for majors and minors. An examination of the role played by social movements in bringing about or resisting change in times of social upheaval. Emphasis is placed on those factors that lead to the rise of new movements, as well as those that determine movements' success or failure in achieving their objectives. Lecture and discussion. Prerequisite: SOC 1300. Spring.

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

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

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

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

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

**4334 MEDICAL SOCIOLOGY** A requirement for all medical concentration majors and an elective for other majors and minors. This course examines the institution of medicine using sociological theories. Topics include 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 with H ED 4343/5353. Students will receive credit for only one of the courses. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Spring.

**4351 FAMILY STRUCTURE AND INTERACTION** An elective for majors and minors. A detailed exploration of family structure and function, this course is primarily concerned with family structure/practices as they vary over time and across cultures. Emphasis is also placed on the theoretical causes of structural change and the consequences these changes bring to society as a whole. Lecture and discussion. Prerequisite: SOC 1300. Summer, on demand.

**4355 VICTIMOLOGY** A requirement for criminology concentration majors and an elective for other majors and minors. This course focuses on the social and psychological impact of crime and the criminal justice system on crime victims, historical and current status of the crime victim movement, and policy alternatives for interactions between victims and the legal and social service agencies. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. Fall, spring, summer, on demand.

**4360 SEMINAR** A requirement for all majors. This course assists the student in the completion of a unique research project that was proposed in SOC 3320. Additional emphasis will be placed on research evaluation, resume construction, and career and educational opportunities for sociology graduates. Seminar. Prerequisites: 21 hours of sociology including SOC 2321, 3320 and 4330. Fall, spring.

**4370 INTERNSHIP IN SOCIOLOGY** An elective for majors and minors. A structured, supervised work experience. The student completes a minimum of 150 hours within the assigned agency during the term enrolled, maintains a log of activities, and provides the internship coordinator with a final paper. Prerequisites: 21 hours of sociology including SOC 2321, 3320, 4330; junior or senior standing; 2.5 GPA; consent of instructor. Fall, spring, summer.

**4395 CONTEMPORARY SOCIAL ISSUES** An elective for majors and minors. An in-depth investigation into a significant social issue, emphasizing an examination of competing ideological orientations toward the issue. The topic varies annually but is announced in the course schedule. Lecture and discussion. Prerequisite: SOC 1300 or consent of instructor. On demand.

**4190, 4290, 4390 SELECTED PROBLEMS IN SOCIOLOGY** An elective for majors and minors. Independent readings, discussions, and writings will be completed in specific areas of sociology that are of particular interest to the student. Prerequisite: Consent of instructor and department chair. On demand.

# COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

**Dean and Professor:** Dr. Ronald B. Toll, 450-3199

**Associate Dean and Associate Professor:** Dr. Stephen R. Addison, 450-3199

## MISSION

The College of Natural Sciences and Mathematics supports the mission of the University of Central Arkansas through the departments of biology, chemistry, computer science, mathematics, and physics and astronomy. The college mission is to provide current, superior learning opportunities for students of the university and for the public; to advance knowledge of our disciplines; and to furnish professional services locally, regionally, and nationally.

The College of Natural Sciences and Mathematics has as its central purposes

- To help students of the university develop life-long competencies in critical thinking, oral and written communication, quantitative reasoning, and problem-solving.
- To provide high quality, rigorous programs that prepare students to enter the work force as practitioners or teachers of mathematics, the natural sciences, or computer science and other professions; to further their education through graduate programs in mathematics, the natural sciences, computer science, and related disciplines; or to attend professional schools, in such fields as dentistry, engineering, medicine, optometry, pharmacy, or veterinary medicine.
- To provide opportunities for advanced studies in biology, mathematics, and science education through master's degree programs.
- To serve students majoring in other programs that require solid foundations in mathematics and the natural sciences, such as teaching and the health professions.
- To acquaint all students with the complexity and diversity of the contemporary world in the context of the mathematical and scientific branches of human learning and ways of knowing through general education courses.
- To provide, promote, and encourage professional growth opportunities for faculty and staff, including faculty and student scholarship that advances and disseminates knowledge of the disciplines.
- To serve the public, including consulting with schools, businesses, industries, and governmental agencies, delivering in-service training for teachers, making presentations to school children and the general public, and supporting professional organizations.

Students majoring in the College of Natural Sciences and Mathematics are encouraged to participate in research as undergraduates. Additional information about research opportunities can be obtained from the college or departmental offices.

## DEPARTMENTS

Biology  
Chemistry  
Computer Science  
Mathematics  
Physics and Astronomy

## PROGRAMS

Bachelor of Arts (BA), Bachelor of Science (BS) and Bachelor of Science in Education (BSE):

Biology (BS)  
Chemistry (BS)  
Computer Science (BS)  
Environmental Science (BS)  
General Science (BS)  
Mathematics (BA, BS, BSE)  
Physics (BS)

*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).*

Pre-professional studies (see Pre-Professional Studies in this bulletin):

Pre-Dentistry  
Pre-Engineering  
Pre-Medicine  
Pre-Optometry  
Pre-Pharmacy  
Pre-Veterinary Medicine

Master of Science (MS) and Master of Arts (MA):

Biology (MS)  
Mathematics (MA)



# BIOLOGY

**Chair and Professor:** Dr. Hamilton, 450-3146

**Professors:** Dr. Choinski, Dr. Culwell, Dr. Owen, Dr. Smith

**Associate Professors:** Dr. Dalske, Dr. Dussourd, Dr. Freiley, Dr. Mathis, Dr. McDonald, Dr. Moran, Dr. Runge, Dr. Zehr

**Assistant Professors:** Dr. Larson, Dr. Murray, Dr. Ruehle, Dr. Waggoner, Dr. Walker

**Lecturers:** Dr. Hirrel, Dr. Martin

## PURPOSES

A knowledge of biology relates directly to understanding contemporary human life and the natural world. The biology program aims to contribute this vital element to the liberal education of all students through required and elective courses in general education. Majors in biology are provided the basic foundation for pursuing careers in biological sciences. Majors can go into research, teaching, or professional positions in medicine, veterinary medicine, dentistry, optometry, environmental science, and various other applied and technical fields. Courses cover both the concepts and processes of biology as well as various groups of organisms. Advanced courses and individual research opportunities are available in numerous subdisciplines. Students in related degree programs, such as applied health sciences and education, obtain the biological component of their programs from fundamental and applied biology courses.

## THE HONORS PROGRAM IN BIOLOGY

Junior or senior students with a grade point average of at least 3.0 overall are allowed to participate in a program which, when successfully completed, will qualify them to graduate with honors in Biology. The program requires completion of all biology courses with a grade point of 3.25 or better, plus at least 3 additional hours of independent research (BIOL 3350) under the supervision of a department faculty member. An acceptable written report of this research must be submitted, and an oral presentation must be given to the Department of Biology or in another suitable public forum.

## BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

The baccalaureate degree described below requires successful completion of a minimum of 124 hours, including (1) the general education component; (2) BS degree requirements; (3) requirements in biological and physical science and in mathematics; and (4) a minor approved by both the major and the minor advisors.

**Major in Biology** ..... 40 hours

Minimum Requirements: BIOL 1440, 1441, 2490, 3402, 4403, plus 20 hours of electives chosen from the following and including at least 4

lab courses: BIOL 3360, 3380, 4311, 4351, 4360, 4400, 4401, 4402, 4404, 4405, 4410, 4415, 4430, 4435, 4440, 4445, 4450, 4460, 4461, 4470, 4525, 4530, 4540, and CHEM 4320, CHEM 1450, 1451, 2401, 3411; PHYS 1410, 1420; MATH 1390 and 1392, or 1580, and 2311.

**Minor in Biology** ..... 24 hours

Minimum Requirements: BIOL 1440, 1441, 2490, 3402, 4403, plus 4 elective hours chosen from 2405, 2406, 2407, 2411, 2420, 3370 and all courses listed for the major: CHEM 1450, 1451, 2401; PHYS 1410, 1420.

## TEACHING LICENSURE

A student with a Bachelor of Science degree in biology may obtain teaching licensure by completing the required licensure program. Interested students should consult the science education advisor in the College of Natural Sciences and Mathematics and the chair of the Department of Curriculum and Instruction (450-3172) or the director of Professional Field Services (450-3131) in the College of Education.

## MASTER'S DEGREE

See *Graduate Bulletin*.

## COURSES IN BIOLOGY (BIOL)

**1120 INTRODUCTORY BIOLOGY SEMINAR** This elective course counts toward the BS degree, but not as a biology elective. The course introduces the field of biological science by discussion and investigation of selected topics. Emphasis is placed on the diversity of career opportunities in biology and biology's relationships to allied sciences.

**1400 BIOLOGY FOR GENERAL EDUCATION** A general education course. This course introduces students to the structure and function of cells, organisms, and communities. Lecture and laboratory. Fall, spring, summer.

**1440 PRINCIPLES OF BIOLOGY I** A core course for majors. This course introduces students to the molecular and cellular basis of structure and function of organisms. Lecture and laboratory. Prerequisite: high school chemistry or CHEM 1301 or above. Fall, spring, summer.

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

**2405 HUMAN ANATOMY AND PHYSIOLOGY** A course primarily for health science majors. This course involves systematic study of body structure and function with an emphasis on homeostasis in the human body as a whole. Lecture and laboratory. Prerequisite: BIOL

1400 or 1440. Not open to those who have passed BIOL 2407. Fall, spring, summer.

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

**2407 STRUCTURE AND FUNCTION OF THE HUMAN BODY II** A course primarily for health science majors. This course is a continuation of BIOL 2406 and covers the endocrine, cardiovascular, respiratory, digestive, excretory, and reproductive systems. Laboratory emphasis on physiologic testing of students. Lecture and laboratory. Prerequisite: BIOL 2405 or 2406. Fall, spring.

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

**2420 HISTOLOGY FOR HEALTH SCIENCES.** A course primarily for health sciences majors. This course provides an introduction to the structure and function of tissues and explores how tissues contribute to the normal function of an organism. Prerequisites: BIOL 1440. Fall, summer.

**2490 GENETICS** A core course for majors. This course introduces students to the basic concepts of heredity and natural variation, including elements of classical, molecular, and population genetics. Lecture and laboratory. Prerequisite: BIOL 1441. Fall, spring, summer.

**3360 INTRODUCTION TO MARINE BIOLOGY** An elective course for biology majors. This course provides an introduction to the marine environment as habitat, to the biota of various marine communities, and to human impacts such as over-harvesting and pollution. Lecture only. Prerequisites: BIOL 1441, CHEM 1451, and PHYS 1410. Spring, alternate years.

**3370 INTRODUCTION TO NEUROSCIENCE** A course primarily for health science majors. This course examines the relationship between the human nervous system and behavioral output, including organizational features, sensory transduction, control of movement, and the circuits involved with emotions and rational thought. Lecture only. Prerequisites: BIOL 2405 or 2406, and CHEM 1402 or 1450. Fall, summer.

**3380 BIOLOGY OF HIV/AIDS** An elective course for biology majors. This course involves comprehensive study of HIV origins, cellular transmission mechanisms, biochemistry, immunology, opportunistic diseases, testing, treatments, vaccines, and animal models. Prerequisites: BIOL 1441. On demand.

**3402 CELL BIOLOGY** A core course for majors. This course examines cell structure and function with an emphasis on bioenergetics, protein function, and proteins, delivery of proteins to the various organelles found in eukaryotic cells. Lecture and laboratory. Prerequisites: BIOL 2490, MATH 1390 or above, CHEM 2401, and PHYS 1410. Fall, spring, summer.

**4311 PATHOPHYSIOLOGY** A course primarily for health science majors. This course involves discussion of disruptions in normal physiology, including the alterations, derangements, and mechanisms involved in these disruptions and how they manifest themselves as signs, symptoms, and laboratory findings. Lecture only. Prerequisites: BIOL 2405, 2407, 4460, or consent of instructor. Fall, summer.

**4340 SCIENCE FOR ELEMENTARY GRADES** A required course for elementary education majors. This course covers the place, practice, and content of science in the elementary school program. It emphasizes the learning of science content and combines the methods of teaching science with a summarization of science materials for these grades. Lecture/workshop format. Prerequisites: BIOL 1400 and PHYS 1400 or their equivalent and admission to teacher education. Fall, spring, summer.

**4351 GENERAL PHARMACOLOGY** A course primarily for health science majors. This course examines how the body handles drugs, and the effects of the various classes of drugs on body systems, including sites and mechanisms of action, therapeutic and side effects, and toxicology. Lecture only. Prerequisite: BIOL 2405, 2407, or 4460. Spring.

**4360 ENDOCRINOLOGY** An elective course for biology majors. This course involves study of the structure and functioning of endocrine glands and the brain of vertebrates in regard to growth, puberty, reproduction, metabolism, and stress. Lecture only. Prerequisite: BIOL 3402. On demand.

**4400 HISTOLOGY** An elective course for biology majors. This course surveys the microscopic anatomy of the vertebrate body. Lecture and laboratory. Prerequisite: BIOL 3402. Fall.

**4401 INVERTEBRATE ZOOLOGY** An elective course for biology majors. This course surveys the classification, functional morphology, and natural history of the invertebrate animals. Lecture and laboratory. Prerequisite: BIOL 1441. Spring, alternate years.

**4402 VERTEBRATE ZOOLOGY** An elective course for biology majors. This course surveys the classification, functional morphology, and natural history of the vertebrate animals. Lecture and laboratory. Prerequisite: BIOL 1441. Fall.

**4403 GENERAL ECOLOGY** A core course for biology majors. This course examines interactions between organisms and their environment. Includes one Saturday field trip. Lecture and laboratory. Prerequisites: BIOL 1441 and MATH 2311. Fall, spring.

**4404 PLANT TAXONOMY** An elective course for biology majors. This course involves the identification, nomenclature, and classification of vascular plants, dealing largely with Arkansas flora. Lecture and laboratory. Prerequisite: BIOL 1441. Fall.

**4405 DEVELOPMENTAL BIOLOGY** An elective course for biology majors. This course involves the basic principles of development at all levels of organization of the embryo. Lecture and laboratory. Prerequisite: BIOL 2490. Fall.

**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.

	<b>SCH</b>
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

405/505.....	Marine Ecology .....	3	420L/520L .....	Marine Phycology Lab .....	2
405L/505L .....	Marine Ecology Lab .....	2	421/521 .....	Coastal Vegetation .....	2
406/506.....	Fauna/Faunistic Ecology Tidal Marshes .....	1	421L/521L .....	Coastal Vegetation Lab .....	1
406L/506L .....	Fauna/Faunistic Ecology Tidal Marshes Lab .....	3	422/522 .....	Salt Marsh Plant Ecology .....	2
407/507.....	Marine Aquaculture .....	3	422L/522L .....	Salt Marsh Plant Ecology Lab .....	2
407L/507L .....	Marine Aquaculture Lab .....	3	423/523.....	Marine Mammals .....	3
408/508.....	Marine Ichthyology .....	3	423L/523L .....	Marine Mammals Lab .....	3
408L/508L .....	Marine Ichthyology Lab .....	3	430/530.....	Comparative Histology of Marine Organisms.....	3
409/509.....	Marine Microbiology .....	3	430L/530L .....	Comparative Histology of Marine Organisms Lab .	3
409L/509L .....	Marine Microbiology Lab .....	2	490/590.....	Special Problems in Marine Science .....	TBA
420/520.....	Marine Phycology .....	2			

## CHEMISTRY

**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

### 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.

### 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 general education component, (2) degree requirements, (3) major requirements in chemistry listed below, and (4) a minor worked out with the student's minor advisor.

#### Major in Chemistry (ACS-certified) ..... 42 hours

Minimum requirements: CHEM 1450, 1451, 2401, 3111, 3150, 3411, 3520, 4112, 4290, 4380, 4385, 4450, 4460, plus two credit hours of research (may be begun as early as the sophomore year); CHEM 3300 and 4301 are excluded; MATH 1591, 2561, 3321; PHYS 1441 and 1442.

#### Major in Chemistry (Non-ACS certified) ..... 36 hours

Minimum requirements: CHEM 1450, 1451, 2401, 3111, 3411, 3520, 4112, 4290, 4450, 4460; chemistry electives: 3 hours at the 3000-level or above (CHEM 3300 and 4301 are excluded); MATH 1591, 2561, and 3321; PHYS 1441, 1442.

#### Minor in Chemistry ..... 24 hours

CHEM 1450, 1451, 3520, and 11 hours of chemistry electives at the 2000-level or above (CHEM 3300 and 4301 are excluded).

#### Major in General Science ..... 48 hours

BIOL 1440, 1441, and 2490; CHEM 1450 and 1451, and either 2401 or 3520; PHYS 1410 and 1420 (or 1441 and 1442), and either 1401 or 2430\* (or 2443)\*; and Option A or B\*.

*Option A:* 4 hours of biology electives from the 3000-level or higher, 4 hours of chemistry electives from the 3000-level or higher, and an additional 4 hours of either biology or chemistry electives from the

3000-level or higher. BIOL 4340, CHEM 4112, CHEM 4290, and CHEM 4301 are excluded. Completion of MATH 1396 or MATH 1591.

*Option B\**: 4 hours of chemistry electives from the 3000-level or higher, 4 hours of physics electives from the 3000-level or higher, and an additional 4 hours of either chemistry or physics electives from the 3000-level or higher. CHEM 4112, 4290, 4301; PHYS 4301; PHYS 4302 and 4360 are excluded. Completion of MATH 1591 and MATH 2561.

\*Students selecting Option B must complete PHYS 2430 or PHYS 2443.

**Minor in Physical Science.** See Department of Physics and Astronomy.

## TEACHER LICENSURE

A student with a BS degree in chemistry or general science may obtain recommendation for teacher licensure by completing the required licensure program. Interested students should consult their major advisor and the science education advisor in the College of Natural Sciences and Mathematics and the chair of the Department of Curriculum and Instruction (450-3172) or the director of Professional Field Services (450-3131) in the College of Education.

## COURSES IN CHEMISTRY

**1301 FUNDAMENTAL CHEMISTRY** The purpose of this course is to provide the background necessary for subsequent study in chemistry. Basic concepts of chemistry for students with limited or no previous chemistry instruction. Lecture, small-group work, and laboratory demonstrations are used in the course. CHEM 1301 may not be used to satisfy any chemistry requirement in conjunction with CHEM 1402 or 1450. Prerequisite: Consent of instructor. Fall, spring.

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

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

**1450 COLLEGE CHEMISTRY I** A required course for chemistry and biology majors, the biological and chemical physics tracks, and pre-pharmacy, pre-medicine, pre-dental, and pre-veterinarian study. Recommended for pre-physical therapy. Principles of general chemistry with emphasis on their theoretical and quantitative aspects and ap-

plications. Lecture, small-group work, and laboratory instruction are used. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: C grade or better in high school chemistry (full-year course or equivalent) and 2 units of high school algebra, or C grade or better in CHEM 1301. Fall, spring, summer I.

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

**2100, 2200 UNDERGRADUATE RESEARCH** Research collaboration with a chemistry faculty member. Open to sophomores. Prerequisite: CHEM 1451. Fall, spring.

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

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

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

**3111 ORGANIC SPECTROSCOPY** Required for a chemistry major. Students are introduced to modern methods of molecular structure determination including mass spectroscopy, infrared spectroscopy, and NMR spectroscopy. Students gain practice in the integration of diverse experimental information toward the correct identification of molecular structures. Two hours of lecture per week. Corequisite: CHEM 3411. Prerequisite: Grade of C or better in CHEM 2401. Spring.

**3150 ADVANCED INORGANIC LABORATORY** Required course for the ACS-certified BS degree and an elective in the non-ACS certified chemistry BS degree. Draws from and complements topics covered in CHEM 4380. Focuses on experimental methods common to inorganic chemistry, including inert atmosphere syntheses, specific characterization techniques, and affiliated instrumentation. Some attention given to experiments in computational chemistry and in materi-

als science. Three hours of laboratory per week. Pre- or corequisites: CHEM 3411, 3520, 4380. Fall.

**3300 PRINCIPLES OF BIOCHEMISTRY** Survey of concepts in biochemistry including structure and metabolism of biological molecules with applications to nutrition and clinical problems. Three hours of lecture per week. Does not count towards a major or minor in chemistry. Prerequisite: CHEM 2450 or 3411. Fall, spring.

**3360 INTERMEDIATE INORGANIC CHEMISTRY** Extension of principles of chemical structure, periodicity, and applications of inorganic systems to industrial, environmental, and biochemical processes. Three hours of lecture per week. Does not count towards a chemistry major; does count towards a chemistry minor or a general science major. Prerequisite: grade of C or better in CHEM 1451. Fall.

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

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

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

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

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

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

**4152 ENVIRONMENTAL CHEMISTRY LABORATORY** Upper-division elective for chemistry majors and minors and a required course for those in the biology and chemistry tracks of the environmental science program. Uses a laboratory format emphasizing sampling, analysis, and data reduction techniques for multicomponent environmental samples. Three hours of laboratory per week. Pre- or corequisite: CHEM 4351. Spring.

**4290 CHEMICAL LITERATURE** Required upper-division course for chemistry majors. Use of chemistry abstracts, journals, references

and electronic information and data retrieval. Seminar presentations. Two hours of lecture per week. Prerequisite: CHEM 3411. Fall.

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

**4320 BIOCHEMISTRY** A survey of the structure and functions of important classes of biomolecules. Metabolism, processing of genetic information, and current topics in biochemistry will be addressed. Three hours of lecture per week. Prerequisite: CHEM 3411. Fall.

**4335 BIOCHEMISTRY II** Continuation of CHEM 4320. Three hours of lecture per week. Prerequisite: CHEM 4320 with a grade of C or better. Spring.

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

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

**4385 TOPICS IN ADVANCED CHEMISTRY** Required course for the ACS-certified chemistry BS degree and an elective in the non-ACS certified chemistry BS degree. Advanced topics in chemistry based on the quantum mechanical and other concepts of modern physical chemistry. Three hours of lecture per week. Prerequisite: CHEM 4460. Spring.

**4450 PHYSICAL CHEMISTRY I** Required upper-division course for chemistry majors. Modern theoretical chemistry with laboratory applications. Serves as a prerequisite class for advanced chemistry courses. Designed to challenge students to think of chemistry primarily from a molecular and mathematical basis. Topics covered are predominately those relating to quantum chemistry, spectroscopy, and chemical kinetics. Significant amount of computer simulation using modern mathematical software. Three hours of lecture and

three hours of laboratory per week. Prerequisites: 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

details for each method. Two hours of lecture and 6 hours of laboratory per week. Prerequisite: CHEM 3520. Spring.

**4460 PHYSICAL CHEMISTRY II** Required course for the ACS-certified chemistry BS degree and an elective in the non-ACS certified chemistry BS degree. The lecture covers classical thermodynamics, statistical mechanics, chemical equilibria, thermochemistry, and solutions. The laboratory component includes experiments illustrating principles of calorimetry, thermodynamics, and multicomponent systems. Three hours of lecture and 3 hours of laboratory per week. Prerequisite: CHEM 4450. Fall.

## COMPUTER SCIENCE

**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 1440, and one sequence of CHEM 1450 and 1451, PHYS 1410 and 1420, or PHYS 1441, 1442; one course from BIOL 1440, 1441, CHEM 1450, 1451, 2401, PHYS 1410, 1420, 1441, 1442, 2447.

#### Minor in Computer Science ..... 20 hours

CSCI 1470, 1480, 2350, 3320, 3370, and 3 hours of any other upper-division CSCI course.

### COURSES IN COMPUTER SCIENCE (CSCI)

**1110 INTRODUCTION TO ELECTRONIC SPREADSHEET** A service course for non-majors. This course is an introductory course in electronic spreadsheet using commercially available spreadsheet packages. Fall, spring, summer.

**1115 INTRODUCTION TO DATABASES** A service course for non-majors. This course is an introductory course to database technol-

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** A required course for majors. File processing concepts and terminology, physical characteristics of external storage devices, external data representation, sequential files, linked lists, trees, networks, file organizations, indexed-sequential files, file control systems, and utility routines. Prerequisite: CSCI 3320. Fall.

**3370, PROGRAMMING LANGUAGES** A required course for majors and minors. Evolution of programming languages, language translators, programming paradigms, syntax and semantics, abstraction and structure, data types and data structures, statements, operators and expressions, control structures, abstract data types, subprograms, and discussion of popular programming languages with each paradigm. Prerequisite: CSCI 3320. Spring.

**3390 INTRODUCTION TO SOFTWARE ENGINEERING** A required course for majors. Introduction to the basic principles of software engineering, including requirement analysis, specification design, testing, and software maintenance; group projects involve the development of a non-trivial computer system from initial concept to a working system. Prerequisite: CSCI 3320. Taking CSCI 3370 and 3350 in advance is suggested. Fall.

**4300 OPERATING SYSTEMS** A required course for majors. Introduction to operating systems, historical development, serial batch systems, multiprogramming systems, time-sharing systems, real-time systems, control programs, job control language, job management, task management, data management, interrupt handling, and concepts of telecommunication. Prerequisites: CSCI 3300, 3350. Spring.

**4320 COMPILER CONSTRUCTION** An elective for majors. Mathematical foundations of compilers, grammars, trees, parsing fundamentals, finite-state automata, top-down parsing, bottom-up parsing, syntax-directed translation, symbols tables, run-time machine models, object code generation, and optimization techniques. Prerequisite: CSCI 3370. Spring or fall.

**4330 COMMUNICATIONS SYSTEMS** An elective for majors. Communications concepts, structure and organization of communications systems, communications media, speed disparity problems, commu-



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; however, this computer science credit may not be used to meet any major or minor requirements. Prerequisites: CSCI 2350, 3320. Fall, spring, summer.

**4380 COMPUTER ARCHITECTURE** An elective for majors. Topics include arithmetic and logic unit, control unit, memory system, I/O system, instruction format, instruction implementation, and program flow control. Prerequisite: CSCI 3300. Fall.

**4381 OBJECT-ORIENTED PROGRAMMING WITH JAVA** An elective for majors. This course introduces object-oriented programming in Java. It covers the Java programming basics, building Java applets, multimedia handling, network programming techniques, and multi-thread programming techniques in Java language. The emphasis of this course is object-oriented programming techniques and network-related programming techniques. Prerequisites: CSCI 3320, 3350. Spring.

**4385 ARTIFICIAL INTELLIGENCE** An elective for majors. Introduces the elements of artificial intelligence covering knowledge representation and pattern matching, search techniques, natural language processing, logic and inference, machine learning, problem solving, expert systems, and programming in PROLOG/LISP. Prerequisite: CSCI 3320. Spring.

**4390 THEORY OF COMPUTATION** An elective for majors. Introduces the elements of theory of computing covering basics of automata theory, formal languages, and Turing machines. Prerequisites: CSCI 3320 and MATH 2330. Fall or spring.

**4195, 4295, 4395 WORKSHOP** An elective for majors. Credit from 1 to 3 hours may be earned in a semester. May be repeated with a change in content for a maximum of 6 semester hours. Only 3 hours can be used for the 12 hour electives requirement. Prerequisite: Consent of instructor.

## 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 measurement, 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 introduction to calculus and will include differentiation and integration of polynomial, exponential, and logarithmic functions, solutions of simple differential equations, and the application of these techniques to solve physical problems particularly in the life sciences such as biology. Prerequisite: MATH 1390 or equivalent. Fall, spring.

**1580 ALGEBRA AND TRIGONOMETRY** May be used to meet the general education requirement in mathematics and is designed for students who plan to study calculus. Includes the study of concepts of algebra and trigonometry essential to the study of calculus. Technology such as the graphics calculator is used extensively. Meets five days a week in a lecture setting. Not open to students who al-

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
<b>TOTAL</b>	<b>65</b>

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
<b>TOTAL</b>	<b>72</b>

**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's home page on the UCA website.

Physics hours required:	33
Mathematics hours required:	19
Chemistry hours required:	29
<b>TOTAL</b>	<b>81</b>

**Mathematical Physics Track**

The mathematical physics track is intended for those students who are particularly interested and strongly motivated both in physics and in mathematics. It offers an excellent preparation for graduate study in theoretical physics, mathematical physics, computational physics, applied mathematics and engineering. This track does not require a minor.

For the courses required in addition to the core and for a suggested sequence of physics and mathematics courses, please contact the department chair or visit the department's home page on the UCA website.

Physics hours required:	42
Mathematics hours required:	37
<b>TOTAL</b>	<b>79</b>

### **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
<b>TOTAL</b>	<b>62</b>

### **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
<b>TOTAL</b>	<b>58</b>

### **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
<b>TOTAL</b>	<b>79</b>

### **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.

## TEACHER LICENSURE

A student with a BS degree in physics may obtain recommendation for teacher licensure by completing the required licensure program. Interested students should consult their major advisor and the science education advisor in the College of Natural Sciences and Mathematics and the chair of the Department of Curriculum and Instruction (450-3172) or the director of Professional Field Services (450-3131) in the College of Education.

## COURSES IN PHYSICS (PHYS)

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

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

**1402 PHYSICAL GEOLOGY** A lower-division elective. Introduces the student to the nature and properties of materials composing the earth, the distribution of those materials, the processes by which they are formed, transported, and distorted, and the nature and development of the landscape. Lecture and laboratory.

**1405 APPLIED PHYSICS** For health science students. Introduces the student to forces, energy, fluids, sound, heat, light, electricity, and radioactivity, with applications to the health sciences. (Not open to students who have completed PHYS 1410 or 1441 unless specifically required for major. May not be applied toward a major or minor together with PHYS 1410, 1420, 1441, or 1442.) Prerequisite: High school or college algebra. Spring, summer.

**1410 COLLEGE PHYSICS 1** For biology, health science, pre-medical, pre-dental, and other students needing a basic introduction to physics. Forms a two-semester sequence with College Physics 2. Introduces the student to mechanics (kinematics, force, work, energy, momentum, rotational motion, elasticity, fluids), heat, and thermodynamics. Lecture and laboratory. Prerequisite: High school trigonometry and grade of C or better in MATH 1390 or equivalent. Fall, spring, summer.

**1420 COLLEGE PHYSICS 2** Continuation of College Physics 1. Introduces the student to simple harmonic motion, waves, sound, electricity, magnetism, and light. Lecture and laboratory. Prerequisite: PHYS 1410. Fall, spring, summer.

**2311 STATICS** For pre-engineering students. A study of stresses, strains, and equilibrium in a plane and in space; analysis of structures, friction, centroids, and moments of inertia. Problem oriented with applications emphasized. Lecture. Prerequisite: PHYS 1441. Co- or prerequisite: MATH 2561.

**2421 OBSERVATIONAL ASTRONOMY** A lower-division elective.

Field work with telescopes and other equipment; methods for making celestial observations. Prerequisite: PHYS 1401.

**4301 CONCEPTS OF PHYSICAL SCIENCE 1** For elementary, junior-high, and high school teachers. Forms a two-semester sequence with Concepts of Physical Science 2. Introduces the student to the basic concepts of physical science. Laboratory format. Prerequisite: Consent of instructor.

**4302 CONCEPTS OF PHYSICAL SCIENCE 2** Continuation of PHYS 4301. Laboratory format. Prerequisite: Consent of instructor.

## COURSES FOR DEPARTMENT MAJORS (PHYS)

**1100 PROJECTS IN PHYSICS** A lower-division elective. Introductory physics projects involving laboratory work, library research, and/or problem solving. Written reports and oral presentations may be required. Prerequisite: Consent of department. Fall, spring, summer.

**1441 UNIVERSITY PHYSICS 1** Part of the major core. Forms a three-semester calculus-based survey of physics sequence with University Physics 2 and 3. Introduction to mechanics. Integrated lecture, discussion, workshop, laboratory format. Pre- or corequisite: MATH 1591. Fall.

**1442 UNIVERSITY PHYSICS 2** Part of the major core. Continuation of PHYS 1441. Introduction to waves, thermodynamics, and electromagnetism. Integrated lecture, discussion, workshop, laboratory format. Prerequisite: PHYS 1441. Pre- or corequisite: MATH 2561. Spring.

**2430 COLLEGE PHYSICS 3** For physics majors with a College Physics background. Continuation of PHYS 1420. Introduction to wave optics, the special theory of relativity, the foundations of quantum theory with examples and applications, atomic structure, and subatomic physics. Lecture and laboratory. Prerequisite: PHYS 1420; pre- or corequisite: MATH 2561.

**2443 UNIVERSITY PHYSICS 3** Part of the major core. Continuation of PHYS 1442. Introduction to optics, the special theory of relativity, the foundations of quantum theory with examples and applications, atomic structure, and subatomic physics. Lecture and laboratory. Prerequisite: PHYS 1442; pre- or corequisite: MATH 3321. Fall.

**3110 JUNIOR LABORATORY 1** Part of the major core. A laboratory course that includes, but is not confined to, experiments related to upper-division physics courses such as Mechanics, Electromagnetism, and Optics. Selection of experiments is adapted to the needs and program of the individual student. Involves student presentations. Requires attendance at department seminar. Prerequisite: PHYS 2443 or 2430. Fall.

**3120 JUNIOR LABORATORY 2** Part of the major core. A laboratory course that includes, but is not confined to, experiments related to upper-division physics courses such as Mechanics, Electromagnetism, and Optics. Selection of experiments is adapted to the needs and program of the individual student. Involves student presentations. Requires attendance at department seminar. Prerequisite: PHYS 2443 or 2430. Spring.

**3341 MATHEMATICAL METHODS IN PHYSICS** A study of vector



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. Lecture. Prerequisite: PHYS 3360. Spring, even years.

**4110 SENIOR LABORATORY** Part of the major core. A laboratory course that offers diverse laboratory experiences that are more specialized than those of Junior Laboratory. Selection of experiments is adapted to the needs and program of the individual student. Involves student presentations. Requires attendance at department seminar. Prerequisites: PHYS 3110, 3120. Fall.

**4341 ADVANCED MATHEMATICAL PHYSICS** Tensor analysis, integral transforms, solutions to non-linear differential equations, introduction to chaos, and other special topics in mathematical physics. Lecture. Prerequisite: PHYS 3341. Fall, odd years.

**4350 TOPICS IN THEORETICAL PHYSICS** Content will vary, depending on interests of faculty and students. Examples: acoustics, astrophysics, atomic physics, condensed matter, cosmology, elementary particles, fluid mechanics, nuclear physics. May be repeated with different content. Lecture. Prerequisite: Consent of instructor.

**4351 COMPUTATIONAL PHYSICS** An introduction to computational techniques of solving physics problems. Lecture. Prerequisite: Consent of instructor.

**4360 PHYSICS FOR SECONDARY TEACHERS** Introduction to secondary-level teaching materials and laboratory techniques. Integrated lecture, discussion, workshop, laboratory format. Prerequisite: Consent of instructor.

**4103, 4203, 4303 SPECIAL PROBLEMS IN PHYSICS** May consist of problem solving, library research, and/or laboratory work. Student may register for 1 to 4 hours each semester. May be repeated with change of content. Fall, spring, summer.

**4104, 4204, 4304 SPECIAL PROBLEMS IN ASTRONOMY** May consist of problem solving, library research, and/or laboratory work. Student may register for 1 to 4 hours each semester. May be repeated with change of content. Fall, spring, summer.

# INTERDISCIPLINARY PROGRAMS

# ASIAN STUDIES MINOR

**Coordinator and Associate Professor:** Dr. Cohen (Art), 450-5791

## PURPOSE

The objective of the Asian studies minor is to provide students with an overview of and orientation to topics related to Asia and will serve as a foundation upon which they may plan graduate study or other careers such as international business.

**Minor in Asian Studies ..... 18 hours**

The minor in Asian studies requires successful completion of the requirements listed below.

1. ART 2325, HIST 3303, PHIL 3352, FLAN 2315 (when Asian theme is offered).
2. Six (6) hours of electives from the following: ART 3385, 3395; HIST 3304, 4381, 4383; JAPN 1310, 1320; ECON 4380; ENGL 3325 (when Asian theme is offered).

# ENVIRONMENTAL SCIENCE

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

**Biology Track Advisor:** Dr. Mathis, 450-5933

**Chemistry Track Advisor:** Dr. Draves, 450-5961

**Planning and Administration Track Advisor:** Dr. Allender, 450-5641

## PURPOSES

Since Rachel Carson published *Silent Spring* in 1962, there has been an increasing awareness about environmental issues and expansion of environmental protection and regulation efforts. UCA's Environmental science program is designed to help provide the growing number of trained environmental specialists required by businesses and government agencies. The projected yearly increase in manpower needs of many environmental specialties in the 21st century is substantial: planning (3%–9%), environmental education and communication (5%–10%), water quality management (9%), solid and waste management (13%), hazardous waste management (18%), and air quality management (25%). Importantly, many of the problems faced in these positions will require individuals with broader training than is provided by traditional academic programs. Thus, academic programs designed to train these specialists must have a strong interdisciplinary component.

## BACCALAUREATE DEGREE: BACHELOR OF SCIENCE

The bachelor of science degree, with a major in environmental science, requires successful completion of a minimum of 124 hours, including (1) the general education component, (2) BS degree requirements, and (3) major requirements listed below. A minor is not required.

## ***Common Core for All Environmental Science Majors (38 hours)***

BIOL 1440	Principles of Biology I
BIOL 1441	Principles of Biology II
CHEM 1450	College Chemistry I
CHEM 1451	College Chemistry II
GEOG 1315	Introduction to Physical Geography

one of the following four courses in statistical methods:

MATH 2311	Statistical Methods I or
PSCI 2312	Statistical Methods for
	Political Analysis or
PSYC 2330	Psychological Statistics or
SOC 2321	Social Statistics
GEOG 2302	Conservation and Land Use
ENVR 3410	Introduction to Environmental Science
ECON 3330	Environmental Economics
PSCI 3320	Environmental Policy and Regulation
ENVR 4310	Environmental Practicum

## ***Biology Track (44 hours)***

The biology track emphasizes the use of organisms as indicators of environmental stress. Students are instructed in biological specialties that allow them to determine if an area has been impacted significantly through the actions of humans. The biology track also requires additional courses in chemistry because information from the non-living environment often is needed to explain biological observations.

**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).

# RELIGIOUS STUDIES

**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.

## 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

**Major in Religious Studies ..... 33 hours**

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 3315; SOC 4300, 3315.

Courses taken as core requirements cannot satisfy elective requirements. Majors and minors are encouraged to take RELG 1320 to satisfy their general education requirement in world cultural traditions.

**Minor in Religious Studies ..... 21 hours**

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.

2. Six (6) hours of electives from the following list: ART 2325, 3385; ENGL 4341; HIST 3320, 3321, 3303, 4387; PHIL 3301, 3303, 3331, 3352; RELG 3315; SOC 4300, 3315. Courses taken as core require-

ments cannot satisfy elective requirements. Majors and minors are encouraged to take RELG 1320 to satisfy their general education requirement in world cultural traditions.

## SOUTHERN AND ARKANSAS STUDIES MINOR

**Coordinator and Associate Professor:** Dr. Jameson (Geography), 450-5637

### PURPOSE

The minor in southern and Arkansas studies is an interdisciplinary program designed to provide students with a broad understanding of the heritage, life, and culture of this unique region of the United States. Combining course work from English, geography, history, and political science, the program will also draw upon the rich resources available locally, including the Ozark Folk Center and the Ozark Heritage Institute.

**Minor in Southern and Arkansas Studies ..... 21 hours**

The minor in southern and Arkansas studies requires successful completion of the requirements listed below:

1. Nine core hours selected from the following: ENGL 3343; HIST 4345, 4346, 4355; GEOG 3380; PSCI 2340.
2. Nine elective hours from the courses remaining from the above core courses or from the following: ENGL 4380, GEOG 3320, HIST 3353, HIST 3354, HIST 4330.
3. A capstone course such as an independent study or a topics seminar from the following: HIST 4391, SOC 4390, GEOG 4360, ENGL 4304 when a southern or Arkansas topic is offered, or an internship at Ozark Heritage Institute, Old State House Museum, or Ozark Folk Center.

# PRE-PROFESSIONAL PROGRAMS

## PRE-CARDIO-RESPIRATORY CARE

**Advisor:** Dr. Jerome (Health Sciences), 450-5578

### REQUIREMENTS

Students pursuing a career in respiratory therapy should complete general education requirements, plus BIOL 2405, BIOL 2411, 8 hours

of chemistry, 4 hours of physics, and 3 hours of basic computer fundamentals/applications at UCA. Students should then contact the respiratory therapy program they plan to attend for specific information about degree requirements.

## PRE-DENTAL HYGIENE

**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

and then transfer to a dental hygiene department for two years to complete the professional education. Students should contact the dental hygiene program they plan to attend for specific information about degree requirements.

The following courses should be completed at UCA (65 hours total):

WRTG 1310 and 1320, SPCH 1300, HIST 1310 or 1320, PSCI 1330 or HIST 2301 or HIST 2302, SOC 1300, PSYC 1300, ART 2300 or MUS 2330 or SPTH 2300, CHEM 1402\*, BIOL 1400, 1430, and 2411, MATH 1390, CSCI 1300, humanities course (3 hours). Electives (all 3000- or 4000-level courses: 13 hours).

\*A high school chemistry course or CHEM 1301 is a prerequisite.

Apply to the dental hygiene clinical program during the spring semester of the sophomore year. The dental hygiene program at UAMS will only start a candidate in its program at the beginning of the fall semester.

## PRE-DENTISTRY

**Advisor:** Dr. Moran (Biology), 450-5927

Dental schools are currently admitting applicants with three years of college as well as those who have completed a baccalaureate degree. UCA will award the bachelor's degree to students admitted after three years of college and after successful completion of the first year of dental school. These "3 + 1" students must follow a carefully designed curriculum while at UCA and are urged to receive counseling from the pre-dental advisor before starting their first semester at UCA. "3 + 1" students will major in general science, and approved course work at UCA must total 96 hours.

Four-year students will be able to choose a major in one of several areas, including biology, and must complete all of the requirements for their chosen major.

The following courses are commonly required by dental schools in Tennessee, Louisiana, Missouri, Oklahoma, and Texas, each of which admits a specified number of students from Arkansas.

General education, 47 hours; BIOL 1440, 1441, 3402, and 4460 (4400 suggested); CHEM 1450, 1451, 2401, 3411; PHYS 1410, 1420; MATH 1390 or 1396.



# PRE-ENGINEERING

**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, chemistry, and physics requirements at UCA. Students interested in this program should contact the advisor, who will lay out a complete plan of study.

UCA also enjoys transfer agreements with Mississippi State University, Texas A&M University, and the University of Missouri-Columbia. Under those agreements, students satisfactorily completing general education and pre-engineering courses stipulated by the agreement and specified by the pre-engineering advisor will be able to transfer those courses.

## CORE CURRICULUM

Students interested in an engineering program other than the above should complete a core curriculum including the following courses:

CHEM 1450 College Chemistry I  
CHEM 1451 College Chemistry II  
CSCI 1470 Computer Science I  
MATH 1591 Calculus I  
MATH 2561 Calculus II  
MATH 3321 Calculus III  
MATH 3331 Differential Equations  
PHYS 1441 University Physics 1  
PHYS 1442 University Physics 2  
PHYS 2443 University Physics 3  
FACS 2375 Computer Aided Drafting

In addition to these courses, a student should complete WRTG 1310, WRTG 1320, and humanities and/or social science electives. Before selecting elective courses, the student should investigate the requirements of the engineering school the student expects to attend after completing work at UCA.

# PRE-LAW

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.

2. *Analytical and problem-solving skills.* An important part of the lawyer's work is problem-solving. Creative and analytical thinking requires the development of skills in research, use of facts, deductive and inductive reasoning, critical analysis, and the systematic formulation of principles and concepts.
3. *An understanding of and interest in human institutions and values.* Lawyers are not just engaged in a process like that of a worker changing a tire on a car; rather, they are forces in the operation and shaping of the institutions and values with which humankind is concerned. The work lawyers do can have a tremendous impact on a human life and even a whole community. A broad background in history, government, philosophy, economics, and the arts is, therefore, quite important.

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

## PRE-MEDICINE

**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 semester hours) of undergraduate college work, but almost all expect that students will complete a four-year program leading to a baccalaureate degree. Although many medical schools do not require specific courses or a specific major, most students who are successful in matriculating in a college of medicine and completing the course of study major in biology or chemistry.

The Medical College Admission Test (MCAT) is required of applicants for admission to most colleges of medicine. Admission to medical school depends greatly on the scores achieved on this test. Areas covered by the exam are verbal reasoning, writing, biological sciences, and physical sciences. Electives should be selected to improve in areas of weakness.

Minimum requirements for admission to the School of Medicine at the University of Arkansas for Medical Sciences (UAMS) are as follows:

**Biology:** The committee strongly recommends the following as a minimum foundation in biology: BIOL 1440 Principles of Biology I, BIOL 1441 Principles of Biology II, BIOL 2490 Genetics, BIOL 3402 Cell Biology.

**Chemistry:** General, two semesters: CHEM 1450 College Chemistry I, CHEM 1451 College Chemistry II; Organic, two semesters: CHEM 2401 Organic Chemistry I, CHEM 3411 Organic Chemistry II.

**Physics:** Two semesters: PHYS 1410 College Physics 1, PHYS 1420 College Physics 2.

**Mathematics:** Two semesters (MATH 1390 and above).

**English/Writing:** Three semesters.

Courses in the humanities are also required, but this requirement is satisfied by completion of the UCA general education program. UAMS suggests that the following courses, though not required, would be useful: statistics, computer science, calculus, sociology, general psychology, abnormal psychology, and speech.

## PRE-OPTOMETRY

**Advisor:** Dr. Murray (Biology), 450-5923

Optometry is a profession of specialists who diagnose and correct defects in vision. The Doctor of Optometry degree requires a four-year program of study in an optometry school, preceded by at least 90 hours of college courses. The majority of the required courses are common to most optometry programs. However, some optometry schools require more mathematics than others. A very few schools require only college algebra and trigonometry, but most require analytical geometry, differential calculus, integral calculus, and statistics. Students entering optometry school before having completed a UCA bachelor's degree might be able to complete the requirements for a UCA degree with their optometry school course work, provided they have completed

96 credit hours of prescribed course work at UCA. However, most optometry schools prefer applicants who acquire a bachelor's degree before entry. The American Optometric Association has organizations in all 50 states and the District of Columbia.

Required courses for most optometry schools would include at least the following courses: BIOL 1440, 1441, 2405, and 2411 or 4525; CHEM 1450, 1451, 2401, 3411; PHYS 1410, 1420; English/Writing, 12 credit hours; MATH 1390 plus 1392, or 1580 (most schools require 1591, 2561, 2311); social sciences, 6 credit hours; PSYC 1300.

The course of study at UCA should be adjusted to suit the admissions requirements of the optometry school(s) desired.

## PRE-PHARMACY

**Advisor:** Dr. Krause (Chemistry), 450-5940

The educational program for students planning to obtain a degree in pharmacy involves a 65 credit hour pre-professional course of study which includes basic science and mathematics courses as well as humanities courses.

The pre-professional program is a minimum of two years and can be obtained at UCA. A four-year professional program is available at the University of Arkansas for Medical Sciences (UAMS) School of Pharmacy in Little Rock. The successful student will receive a Doctor of Pharmacy (PharmD) degree.

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](mailto: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.

**4320 HONORS COLLEGE THESIS PROJECT** Work on Honors College thesis project. The completed project requires an oral presentation and is evaluated by two faculty members and the director or his designee. Consent of the Honors College director. Fall, spring, summer.

### *Honors College Graduation Requirements*

To complete the Honors College minor in honors interdisciplinary studies, a student must take 9 hours of honors seminars and the Oxford tutorial and complete an Honors College thesis project with an oral presentation.

# 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.

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**TERI HIGGINBOTHAM** Lecturer in Speech, MA University of Arkansas at Little Rock, BA University of Arkansas at Little Rock

**MARC HIRRELL** Lecturer in Biology, PhD University of Illinois at Urbana, MS University of Illinois at Urbana, BS California State University at Long Beach

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**ROBERT HOLDEN** Assistant Professor of Music, DMA Temple University, MM Boston Conservatory, BM Keene State College

**CLAYTON HOLMES** Assistant Professor of Physical Therapy, EdD University of Arkansas at Little Rock, MS Purdue University, BS University of Texas Medical Branch

**JAN HORAN** Clinical Instructor of Kinesiology, MEd Arkansas Tech University, BSE University of Central Arkansas

**JOSEPH HORTON** Professor of Economics, Dean, College of Business Administration, PhD Southern Methodist University, BA New Mexico State University

**DEBORAH HOWELL-CRESWELL** Associate Professor of Kinesiology and Physical Education, Chair, Department of Kinesiology and Physical Education, PhD Louisiana State University, MSE University of Central Arkansas, BSE Southern Arkansas University

**LINDA HSU** Assistant Professor of Music, DMA Eastman School of Music, MM Eastman School of Music, BS Yale University

**JOAN HUANG** Lecturer, Music, DMA Eastman School of Music, MM Temple University, BM Temple University

**BETTY HUBBARD** Professor of Health Sciences, EdD University of Arkansas, MSE University of Central Arkansas, BSE University of Central Arkansas

**LAWRENCE RUSSELL HUFF** Professor of Mathematics, PhD Montana State University, MA University of South Dakota, BS University of South Dakota

**WILLIAM HUGHES** Clinical Instructor of Kinesiology and Physical Education, MS Southwest Missouri State University, BS East Central Oklahoma University

**BILLY R. HUMPHREY** CPA, Professor of Accounting, PhD University of Arkansas, MBA University of Arkansas, BA Hendrix College

**MAUREEN HURD** Instructor of Music, MMA Yale University, MM Yale University, BM Iowa State University

**RONALD JOHN HY** Professor of Political Science, Chair, Department of Geography, Political Science, and Sociology, PhD Miami University of Ohio, MS Central Michigan University, BS Central Michigan University

**I**

**GLENN IRION** Associate Professor of Physical Therapy, PhD Temple University School of Medicine, EDM Temple University, BS University of Central Arkansas

**JEAN IRION** Assistant Professor of Physical Therapy, MEd Temple University, BS West Virginia University

**JIMMY H. ISHEE** Professor of Kinesiology and Physical Education, Associate Dean, College of Health and Applied Sciences, PhD Florida State University, MSE Delta State University, BSE Delta State University

**LORI ISOM** Assistant Professor of Chemistry, PhD Georgia Institute of Technology, BSc University of Oklahoma

**J**

**DAWN JAKUBOWSKI** Assistant Professor of Philosophy, PhD University of Kansas, MA University of Kansas, BA Hamline University

**TERRY JAMES** Professor of Curriculum and instruction, Interim Chair, Department of Curriculum and Instruction, EdD University of Missouri, MEd University of Missouri, BSE University of Missouri

**W.C. JAMESON** Associate Professor of Geography, PhD University of Oklahoma, MS University of Oklahoma, BS University of Texas-EI Paso

**FRANCIE JEFFERY** Assistant Professor of Writing, EdD University of Arkansas at Little Rock, MSE University of Central Arkansas, BA University of Central Arkansas

**GARLAN F. JENKENS** Instructor of Art, Director of Baum Gallery of Fine Arts, MFA University of North Texas, BFA University of North Texas

**KAREN JENKINS** Clinical Instructor of Nursing, MSN Southern Illinois University, BSN Southern Illinois University

**PAUL H. JENSEN** CPA, Assistant Professor of Accounting, DBA University of Memphis, MBA Augusta College, BA Wheaton College

**SARAH JEROME** Clinical Instructor of Health Sciences, PhD Louisiana State University School of Medicine, MS Louisiana State University, BS Northwestern State University (Louisiana)

**ELLEN S. JOHNSON** Assistant Librarian, MLS Vanderbilt University, BS University of Texas

**JENNIFER JOHNSON** Instructor of Occupational Therapy, MA Texas Woman's University, BS University of Central Arkansas

**SHANNON JOHNSON** Instructor of Writing, MA Henderson State University, BA Henderson State University

**W. CLINT JOHNSON** Professor of Economics, PhD Texas Tech University, MA Vanderbilt University, BA Rice University

**DONALD G. JONES** Associate Professor of History, Interim Chair, Department of History, PhD University of Kansas, MA Northeast Louisiana University, BA Northeast Louisiana University

**K**

**TERRANCE B. KEARNS** Professor of English, PhD Indiana University, BA College of the Holy Cross

**CAROLYN KELLEY** Clinical Instructor of Curriculum and Instruction, MA Southeast Missouri State University, BS Southeast Missouri State University

**MICHAEL A. KELLEY** Professor of Political Science, PhD University of South Carolina, MA University of South Carolina, BA Rhodes College

**SUSAN D. KHALILI** Assistant Librarian, MLS University of North Texas, BA Texas Woman's University

**DAVID KIM** Assistant Professor of Marketing, PhD Texas Tech University, MBA Texas A & M University, BA Lafayette College

**LORETTA KNUTSON** Associate Professor of Physical Therapy, PhD University of Iowa, MA University of Iowa, BS University of Pennsylvania

**LAURETTA A. KOENIGSEDER** Associate Professor of Nursing, PhD University of Texas at Austin, MSN University of Central Arkansas, BS University of Central Arkansas

**WILLIAM F. KORDSMEIER** Associate Professor of Economics, PhD Texas A & M University, MA University of Arkansas, BA University of Dallas

**KAY KRAEFT** Professor of Music, DM Indiana University, MME Indiana University, BM Lawrence University

**PAUL F. KRAUSE** Associate Professor of Chemistry, PhD University of Iowa, BS University of Dubuque

**L**

**PAULA LADD** Assistant Professor of Information Systems, EdD University of Tennessee-Knoxville, MSE Arkansas State University, BSE Arkansas State University

**JACKIE LAMAR** Associate Professor of Music, DMA University of North Texas, MME University of North Texas, BME University of Central Arkansas

**JANE W. LAMMERS** Professor of Health Sciences, EdD University of Utah, MSE University of Central Arkansas, BSE University of Central Arkansas

**WILLIAM LAMMERS** Associate Professor of Psychology and Counseling, PhD Bowling Green State University, MA Bowling Green State University, BA San Diego State University

**DONNA LAMPKIN-STEVENS** Lecturer in Journalism, ME University of Arkansas at Little Rock, BA University of Arkansas

**JAMES LAMPKIN** Instructor of Military Science, Chair, Department of Military Science, MS Troy State University, BS Arizona State University

**REBECCA LANCASTER** Assistant Professor of Nursing, PhD University of Texas at Austin, MSN University of Central Arkansas, BS University of Central Arkansas

**DEE LANCE** Assistant Professor of Speech Language-Pathology, PhD University of Tennessee, MSE University of Central Arkansas, BS University of Central Arkansas

**STEVEN LANCE** Instructor of Writing, PhD University of Tennessee, MA University of Central Arkansas, BSE University of Central Arkansas

**DWIGHT LANGSTON** Associate Professor of Foreign Languages, PhD Tulane University, BA Furman University

**PATRICK LARSEN** Professor of Art, MFA Stephen F. Austin State University, MA Stephen F. Austin State University, BBA Lamar University

**KATHERINE LARSON** Assistant Professor of Biology, PhD Northern Arizona University, MS Oregon State University, BS University of Oklahoma

**MAURICE A. LEE** Professor of English, Dean, College of Liberal Arts, PhD University of Wisconsin-Madison, MA Oklahoma State University, BA Oklahoma State University

**JOHN LEONARD** Assistant Professor of Economics, PhD University of California, Santa Barbara, BS Oregon State University

**PAULETTE LEONARD** Associate Professor of Psychology and Counseling, PhD University of Illinois, Chicago, MA University of Illinois, Chicago, BS University of Illinois, Chicago

**GARY LEWERS** Associate Professor of Health Sciences, PhD University of Utah, ME Memphis State University, BS Memphis State University

**ART LICHTENSTEIN** Assistant Librarian, MSLS Simmons College, MSEA University of Southern Maine, BA Colgate University

**CAROL LOAR** Visiting Assistant Professor of History, PhD Northwestern University, MS University of Oregon, BS University of Nebraska

**ROBERT J. LOGAN** Associate Professor of Speech-Language Pathology, PhD Florida State University, MS Florida State University, BS Florida State University

**VENITA LOVELACE-CHANDLER** Professor of Physical Therapy, Chair, Department of Physical Therapy, PhD Texas A & M University, MACT University of North Carolina, Chapel Hill, BS University of Texas, Health Science Center

**ROBERT E. LOWREY** Professor of English, PhD Louisiana State University, MA Texas A & M University, BA Texas A & M University

**PATRICIA LUCY** Clinical Instructor of Nursing, MSN University of Arkansas for Medical Sciences, BSN University of Arkansas for Medical Sciences

## **M**

**RUTH MCCLELLAND-NUGENT** Visiting Assistant Professor of History, PhD Dalhousie University, MA Dalhousie University, BA Franklin College

**KATHY MCDANIEL** Clinical Instructor of Speech-Language Pathology, MSE University of Central Arkansas, BS Hendrix College

**MARY VICTORIA MCDONALD** Associate Professor of Biology, PhD University of Florida, MS Virginia Polytechnic Institute and State University, BA Wake Forest University

**JOSEPH MCGARRITY** Assistant Professor of Economics, PhD George Mason University, MA George Mason University, BA George Mason University

**MARGARET MCGEE** Clinical Instructor of Physical Therapy, MS University of Central Arkansas, BS Stephen F. Austin University

**JEAN J. MCGEHEE** Assistant Professor of Mathematics, PhD University of Texas at Austin, MS University of North Texas, MEd Georgia State University

**JANE MCHANEY** Professor of Elementary Education, Dean, College of Education, EdD Mississippi State University, MEd Mississippi State University, BS David Lipscomb University

**TOM N. MCINNIS** Associate Professor of Political Science, PhD University of Missouri-Columbia, MA University of Missouri-Columbia, BA Chadron State College

**JIMMIE J. MCKIM** Assistant Professor of Mathematics, MA Louisiana State University, MSE University of Central Arkansas, BSE University of Arkansas

**AGNES MCKINNEY** Clinical Instructor of Academic Technologies and Educational Leadership, MEd University of Arkansas, MLS Texas Woman's University, BA University of Arkansas at Monticello

**ROY MCLEAN** Assistant Professor of Economics, PhD University of South Carolina, BA University of North Carolina at Charlotte

**AMY MCMILLAN** Assistant Professor Physical Therapy, MS University of North Carolina, BS University of Delaware

**ELAINE MCNIECE** Professor of Speech-Language Pathology, Dean, Graduate Studies, Associate Provost, EdD University of Arkansas, MS Memphis State University, BSE University of Central Arkansas

**JAMES C. MAINORD** Professor of Special Education, PhD Southern Illinois University, MSE University of Central Arkansas, BSE University of Central Arkansas

**JERALD M. MANION** Professor of Chemistry, PhD University of Mississippi, BS Harding University

**TINA MANKEY** Clinical Instructor of Occupational Therapy, MS University of Central Arkansas, BS University of Central Arkansas

**TWALA MARESH** Clinical Instructor of Physical Therapy, BS University of Central Arkansas

**SCOTT MARKHAM** Professor of Marketing, EdD University of Arkansas, MBA Louisiana State University, BS Louisiana Tech University

**MICHAEL S. MARTIN** Lecturer in Biology, MD Louisiana State University School of Medicine, BS McNeese State University

**ALICE MARTIN-WATSON** Assistant Professor of Nursing, MSN University of Arkansas for Medical Sciences, BSN University of Arkansas for Medical Sciences

**BRYAN W. MASSEY, SR.** Professor of Art, MFA Louisiana State University, BFA East Carolina University

**MICHAEL MATHIS** Associate Professor of Biology, PhD University of Arkansas, MS Southwest Texas State University, BS Southwest Missouri State University

**JULIE MEAUX** Clinical Instructor of Nursing, MSN University of Arkansas for Medical Sciences, BS University of Southwestern Louisiana

**PETER MEHL** Associate Professor of Philosophy and Religion, Director of General Education, PhD University of Chicago, MA University of Chicago, MA Ohio University, BA Ohio University

**RAHUL MEHTA** Associate Professor of Physics and Astronomy, PhD North Texas State University, MSc Banaras Hindu University, BSc Banaras Hindu University

**BONNIE MELCHIOR** Professor of English, DA University of Oregon, MA University of California at Los Angeles, BA Stanford University

**BRUCE MENDELSON** Assistant Professor of Physical Therapy, PhD University of Oregon, BS University of Pennsylvania

**LISA MONGNO** Instructor of Writing, MA University of Arkansas at Little Rock, BA University of Arkansas at Little Rock

**DANA M. MOODY** Instructor, Department of Family and Consumer Sciences, MS University of Tennessee, BS University of Southern Mississippi

**AMANDA MOORE** Assistant Librarian, MSLS Simmons College, MTS Harvard University, BA Hendrix College

**LINDA MOORE** Clinical Instructor of Speech-Language Pathology, MSE University of Central Arkansas, BS University of Central Arkansas

**P. MICHAEL MOORE** CPA, CMA, Professor of Accounting, PhD University of Arkansas, MBA University of Arkansas, BA Ouachita Baptist University

**MIKE MORAN** Associate Professor of Biology, PhD University of Maryland, MS California State University at Hayward, BS Southern Oregon College

**MARGARET M. MORGAN** Associate Professor of Writing, PhD, Ohio State University, MA Ohio State University, BA Ohio State University

**ANNA MOSBO** Clinical Instructor of Curriculum and Instruction, MA Ball State University, BA University of Northern Colorado

**JOHN A. MOSBO** Professor of Chemistry, Provost, PhD Iowa State University, BA University of Northern Colorado

**MARY H. MOSLEY** Associate Professor of Childhood Education, EdD North Texas University, MA Northwestern State University of Louisiana, BA University of Southern Mississippi

**SUSAN A. MOSS-LOGAN** Associate Professor of Speech-Language Pathology, Chair, Department of Speech-Language Pathology, PhD University of Illinois, MS Western Illinois University, BS Western Illinois University

**JOHN J. MURPHY** Assistant Professor of Psychology and Counseling, PhD University of Cincinnati, MEd University of Cincinnati, BA Thomas Moore College

**JAMES A. MURRAY** Assistant Professor of Biology, PhD University of Washington, BS Cornell University

**N**

**DAVID L. NAYLOR** Professor of Special Education, EdD University of Northern Colorado, MSE State College of Arkansas, BSE State College of Arkansas

**JAMES BYRON NELSON** Assistant Professor of Psychology and Counseling, PhD University of Vermont, MA University of Vermont, BS University of Central Arkansas

**NELDA F. NEW** Clinical Instructor of Nursing, MSN University of Central Arkansas, BSN University of Central Arkansas

**WAYNE E. NIX** CPA, Assistant Professor of Accounting, DBA Mississippi State University, JD Mississippi College of Law, MT Georgia State University, BS University of Southern Mississippi

**O**

**CHUDI OBJEKWU** Assistant Professor of Psychology and Counseling, EdD Tennessee State University, MS Tennessee State University, BA Philander Smith College

**WOLFGANG OESTE** Assistant Professor of Music, DMA Northwestern University, MA Northwestern University, BA University of Manitoba, Canada

**MARK OLIVER** Clinical Instructor of Health Sciences, MS University of Central Arkansas, BSE University of Central Arkansas

**THOMAS H. OXNER** CPA, Professor of Accounting, Chair, Department of Accounting, PhD University of Georgia, MBA University of Georgia, BS Campbell University

**WILBUR B. OWEN** Professor of Biology, PhD University of Arkansas, MS University of Arkansas, BS University of Central Arkansas

**P**

**JAMES PACKER** Associate Professor of Finance, DBA Louisiana Tech University, MBA Northeast Louisiana University, BBA Northeast Louisiana University

**JENNIFER PARRACK** Assistant Professor of Spanish, PhD University of Pennsylvania, MA University of Pennsylvania, AB Dartmouth College

**JOHN PASSÉ-SMITH** Associate Professor of Political Science, PhD University of Arizona, MA University of Arizona, BA Virginia Commonwealth University

**SUZANNE PATTERSON** Instructor of Writing, MA University of Arkansas at Little Rock, BA University of Arkansas at Little Rock

**GEORGE S. PAUL** Professor of Chemistry, PhD Iowa State University, BS Coe College

**DAVID R. PETERSON** Professor of Mathematics, Director, Ozark Heritage Institute, PhD Michigan State University, BA Ripon College

**PAUL E. PETERSON** Professor Academic Technologies and Educational Leadership, EdD University of Akron, MSE Clarion University, BS Clarion University

**SUSAN PETERSON** Associate Professor and Interim Director of the Center for Academic Excellence, PhD University of Akron, MEd Clarion State College, BSE Clarion State College

**PATRICIA PHELPS** Associate Professor of Curriculum and Instruction, EdD East Texas State University, MEd Northeast Louisiana University, BA Northeast Louisiana University

**HELEN EVANS PHILLIPS** Professor of Art, MFA University of Florida, BS Memphis State University

**ARMAND PICOU** Associate Professor of Finance, PhD Florida Atlantic University, MBA Nichols State University, BS Louisiana State University

**DWIGHT PIERCE** Associate Professor of Health Sciences, PhD University of Iowa, BS Iowa State University

**CAROLYN L. PINCHBACK** Associate Professor of Mathematics, PhD University of Texas at Austin, MEd Texas A & M University, College Station, BS University of Texas at Austin

**PAUL POJMAN** Visiting Assistant Professor of Philosophy, PhD Indiana University, MA Indiana University, MA University of Mississippi

**FRANK PORTER** Adjunct Clinical Instructor of Radiography, RT American Registry of Radiologic Technologists

**JOEL B. POWELS** Associate Professor of Foreign Languages, PhD Michigan State University, MA Michigan State University, BA Albion College

**RANDALL POWELS** Professor of History, PhD University of California, Los Angeles, MA Duquesne University, BA University of Wisconsin

**EDWARD L. POWERS** Assistant Professor of Sociology, PhD University of North Carolina-Chapel Hill, MA University of North Carolina-Chapel Hill, BA University of Tulsa

**R**

**JACQUIE RAINEY** Associate Professor of Health Sciences, PhD University of South Carolina, MS University of Central Arkansas, BSE University of Central Arkansas

**LYNN R. RAMAGE-SCHAFFER** Instructor, Intensive English Program, MEd Boston University, BA Southern Methodist University, BFA Southern Methodist University

**HARRY W. READNOUR** Professor of History, PhD University of Virginia, MA George Washington University, BA Oklahoma State University

**NANCY REESE** Associate Professor of Physical Therapy, PhD University of Arkansas for Medical Sciences, MS University of Arkansas at Little Rock, BS University of Central Arkansas

**GERALD L. REYNOLDS** Associate Professor of Geography, PhD Southern Illinois University, MS Southern Illinois University, BSF Stephen F. Austin State University

**DANIEL ROCHE** Assistant Professor of Writing, MS University of Iowa, MS Ohio State University, BS University of Dayton

**SALLY A. RODEN** Professor of Speech, Dean, Undergraduate Studies, Associate Provost, EdD University of North Texas, MS University of North Texas, BS Texas Woman's University

**HENRY N. ROGERS, III** Professor of English, PhD Rice University, MA Rice University, BA University of Arkansas





**JOHN ROSCIGNO** Assistant Professor of Music, MM University of Illinois, BM University of Arizona

**BYRON ROSS** Clinical Instructor of Speech-Language Pathology, MS University of Central Arkansas, BS University of Central Arkansas

**GAYLON ROSS** Associate Professor of Physics and Astronomy, Interim Chair, Department of Physics and Astronomy, PhD University of Notre Dame, MS University of Notre Dame, BS University of Central Arkansas

**SHARON ROSS** Clinical Instructor of Speech-Language Pathology, MS University of Arkansas for Medical Sciences, BSE University of Central Arkansas

**KEVIN ROWELL** Assistant Professor of Psychology and Counseling, PhD Texas A & M University, MA Louisiana Tech University, BS Louisiana Tech University

**SELVIN ROYAL** Professor of Academic Technologies and Educational Leadership, Chair, Department of Academic Technologies and Educational Leadership, PhD Florida State University, AdvMS Florida State University, MA Texas Woman's University, EdS Central Missouri State University, MA Central Missouri State University, BA College of the Ozarks

**JO ANN ROYSTER** Lecturer in Mathematics, ME University of Arkansas, BS Henderson State University

**MICHAEL J. RUBACH** Assistant Professor of Management, PhD University of Nebraska-Lincoln, JD Creighton University Law School, MBA University of Nebraska, BA Union College

**JON RUEHLE** Assistant Professor of Biology, PhD University of California-Davis, BA University of California-Berkeley

**STEVEN RUNGE** Associate Professor of Biology, PhD Ohio State University, BS University of Wisconsin-Green Bay

**NEIL RUTMAN** Assistant Professor of Music, DMA Peabody Conservatory of Music, Johns Hopkins University, MM Eastman School of Music, University of Rochester, BM San Jose State University

**RENEE RYBURN** Clinical Instructor of Family and Consumer Sciences, MS University of Arkansas, BS University of Arkansas

## S

**SHARYL SAIN** Clinical Instructor of Nursing, MSN University of Central Arkansas, BSN Saint Xavier College

**IRA SALTZ** Associate Professor of Economics, Associate Dean, College of Business Administration, Associate Dean, Graduate School of Management, Leadership, and Administration, PhD University of California at Berkeley, BA Cornell University

**MICHAEL SCHAEFER** Associate Professor of English, PhD University of North Carolina, MA North Carolina State University, BA University of North Carolina

**NORBERT O. SCHEDLER** Professor of Philosophy, Director of Honors College, PhD Princeton University, MPhil Washington University, MDiv Concordia Seminary, BA Concordia College, St. Louis

**GEORGE W. SCHUYLER** Professor of History, PhD Stanford University, MA Johns Hopkins University, BA Yale University

**MICHAEL T. SCOLES** Associate Professor of Psychology and Counseling, PhD Northern Illinois University, MA Northern Illinois University, BA State University of New York at Cortland

**CORAKEITA SCOTT** Instructor of Writing and Rhetoric, MA University of Akron, BA University of Arkansas at Pine Bluff

**RICHARD I. SCOTT** Professor of Sociology, PhD University of Nebraska, Lincoln, MA University of Nebraska, Lincoln, BS Indiana State University

**CHARLES J. SEIFERT** Professor of Mathematics, PhD Kent State University, MA Kent State University, BS Kent State University

**BONITA SELTING** Assistant Professor of Writing, PhD Purdue University, MA University of Colorado at Denver, BA University of Colorado at Colorado Springs

**GAYLE SEYMOUR** Professor of Art, PhD University of California, Santa Barbara, MA University of California, Santa Barbara, BA University of California, Santa Barbara

**LINDA SHALIK** Associate Professor of Occupational Therapy, Chair, Department of Occupational Therapy, PhD University of Florida, MEd University of Florida, BS Ohio State University

**ALMA SHEARIN** Assistant Professor of Childhood Education, PhD University of Arkansas, MS Johns Hopkins University, BA University of Maryland

**JIM SHELTON** Professor of Philosophy, Chair, Department of Philosophy and Religion, PhD University of Kansas, MPhil University of Kansas, BA University of Tulsa

**GORDON SHEPHERD** Professor of Sociology, PhD State University of New York at Stony Brook, MA State University of New York at Stony Brook, BA University of Utah

**BRYANT D. SHERMAN** Instructor of Military Science, MS University of Northern Colorado, BS University of Nebraska at Omaha

**BRENT SHIRES** Instructor of Music, MM Northern Illinois University, BM State University of New York at Potsdam

**MELISSA SHOCK** Associate Professor of Family and Consumer Sciences, PhD Oklahoma State University, MSE University of Central Arkansas, BS University of Arkansas

**JEFFREY SHOWELL** Professor of Music, Chair, Department of Music, DMA Yale University, MMA Yale University, MM Eastman School of Music, BM Eastman School of Music

**CONRAD SHUMAKER** Professor of English, PhD University of California, Los Angeles, MA University of Arizona, BA University of Arizona

**ARLENE SINDELAR** Visiting Assistant Professor of History, PhD University of Mississippi, MA University of Iowa, BA Concordia Teachers' College, AA St. John's College

**DAVID J. SKOTKO** Professor of Psychology and Counseling, Chair, Department of Psychology and Counseling, PhD Wayne State University, MA Wayne State University, BA Cleveland State University

**JACK SLENTZ** Instructor of Art, MFA University of Memphis, MA University of Arkansas at Little Rock, BA University of the Ozarks

**BILLY LEE SMITH** Professor of Psychology and Counseling, PhD University of Mississippi, MS University of Mississippi, BA Northeast Louisiana University

**D. DERALD SMITH** Professor of Biology, PhD University of Texas, MS University of Oklahoma, BS University of Oklahoma

**DONNA S. SMITH** CMA, Assistant Professor of Accounting, MBA Louisiana Tech University, BBA Southern Arkansas University

**JOHN W. SMITH** Assistant Professor of Psychology and Counseling, Vice President for Administrative and Financial Services, EdD Mississippi State University, MEd West Georgia College, BS Berry College

**TERESA SMITH** Associate Professor of Psychology and Counseling, PhD University of Mississippi, MA University of Mississippi, BA Southeastern Louisiana University

**PAMELA A. SPIKES** CPA, Associate Professor of Accounting, PhD University of Mississippi, MS University of Arkansas, BS University of Arkansas

**CONRAD STANITSKI** Professor of Chemistry, Chair, Department of Chemistry, PhD University of Connecticut, MS University of Northern Iowa, BS Bloomsburg State College

**ELLEN POWERS STENGEL** Instructor of Writing, PhD Duke University, MA Duke University, BA Smith College

**WAYNE B. STENGEL** Professor of English, Interim Chair, Department of English, PhD Duke University, MA New York University, MA University of Louisville, BA Grinnell College

**DONNA STEPHENS** Lecturer in Mass Communications, MA University of Arkansas at Fayetteville, MEd University of Arkansas at Little Rock, BA University of Arkansas at Fayetteville

**STACY STEPHENS** Clinical Instructor of Physical Therapy, MS University of Arkansas, BA University of Arkansas

**MIKE STEVENSON** Instructor of Military Science, BS State University of New York

**DAVID STRICKLAND** Clinical Instructor of Kinesiology and Physical Education, MS University of Wisconsin-La Crosse, BS New Mexico State University

**SHEILA STROMAN** Assistant Professor of Nursing, PhD University of Memphis, MSN University of Central Arkansas, BS University of Central Arkansas

**LORNA STRONG** Clinical Instructor of Kinesiology and Physical Education, MS University of Central Arkansas, BA Rice University

**YVONNE STURDIVANT** Instructor, Child Study Center, BSE University of Central Arkansas

**R. DAVID SUMPTER** Assistant Professor of Childhood and Special Education, PhD Peabody College of Vanderbilt University, MS Arkansas State University, BS Arkansas State University

**TRACY D. SWANK** Assistant Librarian, MLIS University of Oklahoma, BS Northeastern Oklahoma State University

## T

**DONNA KAYE TALLEY** Assistant Librarian, MSE University of Central Arkansas, MS Louisiana State University, BSE University of Central Arkansas

**THEMAN RAY TAYLOR** Professor of History, PhD University of California, Santa Barbara, MA Loyola University of Los Angeles, BA California State University, Dominguez Hills, AA Compton Junior College

**WILLIAM S. TAYLOR** Associate Professor of Chemistry, PhD Louisiana State University, BS Hendrix College

**RITA TEKIPPE** Lecturer in Art, PhD Ohio State University, MA Ohio State University, MFA Georgia State University, BA Benedictine College

**KAREN THESSING** Lecturer in Computer Science, MS University of Arkansas at Little Rock, BBA University of Central Arkansas

**WINFRED L. THOMPSON** Professor of History, President of the University, PhD University of Chicago, LLM George Washington University, JD George Washington University, MA University of Chicago, BA University of Arkansas, Fayetteville

**GLENDA THURMAN** Associate Professor of Academic Technologies and Educational Leadership, PhD University of Colorado, MA University of Colorado, BS University of Colorado

**JAMES E. THURMAN** Associate Professor of Speech-Language Pathology, EdS University of Northern Colorado, MCH Brigham Young University, MSE University of Central Arkansas, BS State College of Arkansas

**LARRY WAYNE TITLOW** Professor of Kinesiology and Physical Education, PhD Texas A & M University, MEd University of Houston, BSE University of Houston

**RONALD B. TOLL** Professor of Biology, Dean, College of Natural Sciences and Mathematics, PhD University of Miami, BA Rutgers University, AA Union College

**DAMBER SINGH TOMER** Associate Professor of Computer Science, DA University of Illinois, MS University of Illinois, Chicago, MS University of Agra, India, BS University of Agra, India

## V

**JOHN VANDERSLICE** Instructor of Writing and Rhetoric, PhD University of Louisiana at Lafayette, MFA George Mason University, BA University of Virginia

**STEPHANIE VANDERSLICE** Assistant Professor of Writing, PhD University of Southwestern Louisiana, MFA George Mason University, BA Connecticut College

**KEN VAUGHN** Assistant Professor, Director of Field Services, EdS University of Arkansas, MSE Henderson State University, BSE Henderson State University

**R. LAWSON VEASEY** Professor of Political Science, DA Idaho State University, MPA Idaho State University, MA Stephen F. Austin University, BA Louisiana Tech University

## W

**BEN WAGGONER** Assistant Professor of Biology, PhD University of California, Berkeley, BA Tulane University, BS Tulane University, New Orleans

**REBECCA WALKER** Clinical Instructor of Nursing, MSN University of Arkansas for Medical Sciences, BSN Vanderbilt University

**RICHARD WALKER** Instructor of Music, MM University of Illinois, BM University of Northern Kentucky

**THOMAS MATTHEW WALKER** Assistant Professor of Biology, PhD Virginia Polytechnic Institute and State University, BS Virginia Polytechnic Institute and State University

**LYN B. WALLACE** Associate Professor of Art, MFA Fort Hays State University, BA Fort Hays State University

**PAULETTE H. WALTER** Instructor of Journalism, MS Ohio University, BA University of Alaska, Fairbanks

**SHARON WARD** Adjunct Clinical Instructor of Nuclear Medicine Technology, MA Webster University, BS University of Central Arkansas

**KAREN C. WEAVER** Assistant Professor of Chemistry, PhD Ohio University, BS Marietta College

**MAURICE WEBB** Associate Professor of History, PhA University of Arkansas, Fayetteville, MBA Columbia University, BA Hendrix College

**ERIC C. WEIG** Assistant Librarian, MLIS University of Iowa, BA University of Iowa

**KATHY WEILER** Clinical Instructor of Speech-Language Pathology, MSE University of Central Arkansas, BSE University of Central Arkansas

**GARY D. WEKKIN** Professor of Political Science, PhD University of British Columbia, MA University of British Columbia, BA University of Wisconsin-Madison

**JAMES C. WELLER** Assistant Professor of Quantitative Methods, MBA West Texas State University, BS West Texas State University

**CRAIG A. WESOLOWSKI** Assistant Professor of Chemistry, PhD University of Iowa, BA University of Wisconsin-La Crosse

**DONALD E. WHISTLER** Professor of Political Science, PhD Southern Illinois University, MS Iowa State University, BA Buena Vista College

**KATHRYN WHITE** Instructor of Occupational Therapy, MHSA University of Arkansas at Little Rock, BS University of Central Arkansas

**MARY WHITE** Assistant Librarian, MLS University of North Texas, BA University of Arkansas-Fayetteville

**ROY WHITEHEAD, JR.** Associate Professor of Business Law, LLM University of Arkansas, JD University of Arkansas, BS Arkansas Tech University

**ROBERT H. WILLENBRINK, JR.** Professor of Theatre, Chair, Department of Speech, Theatre, and Mass Communication, PhD Bowling Green University, MA Morehead State University, BA Morehead State University

**MARC S. WILLEY** Assistant Professor of Occupational Therapy, PhD University of Arkansas, MOT Texas Woman's University, BSE Stephen F. Austin State University

**BARBARA G. WILLIAMS** Professor of Nursing, Chair, Department of Nursing, PhD University of North Texas, MS Texas Woman's University, BS University of Central Arkansas

**REBECCA WILLIAMS** Associate Professor of English, PhA University of Arkansas, MA University of Arkansas, BSE University of Arkansas

**ROBERT D. WILLIAMS** Professor of Psychology and Counseling, PhD University of Mississippi, MA Stephen F. Austin University, BS North Texas State University

**JANET WILSON** Assistant Professor of Sociology, PhD University of Nebraska, MS University of Central Arkansas, BS University of Central Arkansas

**DENIS WINTER** Professor of Music, DMA University of North Texas, MM New England Conservatory, BM Ohio University

**ANN WITCHER** Associate Professor of Curriculum and Instruction, EdD University of Arkansas, EdS University of Central Arkansas, MSE University of Arkansas, BSE University of Kansas

**HEATHER WOOLVERTON** Associate Professor of Physics and Astronomy, PhD Texas A & M University, BS University of Southern Colorado

**TERRY A. WRIGHT** Professor of Writing, MFA Bowling Green State University, MA University of Arkansas, BA Morningside College

**HUI WU** Lecturer in Writing, PhD Texas Christian University, MA Jiangxi University, BA Nanchang College

## Y

**JEFFRY YOUNG** Assistant Professor of Art, PhD University of North Texas, MA University of North Texas, BFA Texas Tech University

## Z

**RETA ZABEL** Assistant Professor of Physical Therapy, PhD Texas Woman's University, MS University of Central Arkansas, BS University of Texas Health Science Center

**JAIME ZAMBRANO** Associate Professor of Foreign Languages, PhD University of Missouri, MA University of Missouri, BS Universidad de Colombia

**DAVID ZEHR** Associate Professor of Biology, PhD Medical University of South Carolina, MS North Carolina State University, BA Dartmouth College

# ATHLETIC STAFF

**HENRY BRISCOE** Strength Coach, BS University of Southwestern Louisiana, MS US Sports Academy

**CLINT CONQUE** Head Football Coach, BS Nicholls State University

**KEVIN FOUQUIER** Assistant Football Coach, BA University of Southwestern Louisiana

**TONY GILBERT** Assistant Football Coach, MA Southwest Missouri State University, BS Southwest Missouri State University

**HOLLY HARRIS** Women's Soccer Coach, MS University of Central Arkansas, BS Arkansas Tech University

**JOEL HARRISON** Men's Soccer Coach, BS West Texas A & M University

**CHARLES HERVEY** Head Basketball Coach, MSE University of Central Arkansas, BSE University Central Arkansas

**BROOKS HOLLINGSWORTH** Assistant Football Coach, MSE University of Central Arkansas, BSE University of Central Arkansas

**CRAIG KOPPELMAN** Assistant Men's Basketball Coach, MS Arkansas State University, BA University of Michigan

**MICHELLE KOPPELMAN** Volleyball Coach, MS University of Memphis, MA University of West Alabama, BS Arkansas State University

**WILLIAM E. LIDE** Athletic Director, PhD Ohio State University, MEd University of North Carolina—Charlotte, BS Johnson C. Smith University

**RICHARD MARTIN** Women's Cross-Country Coach, MSE University of Central Arkansas, BSE University of Central Arkansas

**RONALD MARVEL** Head Women's Basketball Coach, Women's Tennis Coach, MSE University of Arkansas, BSE University of the Ozarks

**ROB RICHARDSON** Assistant Football Coach, BA University of Alabama

**CENDEY ROBERTS** Women's Tennis Coach, BA University of Central Arkansas (Physical Education and Psychology), BS University of Central Arkansas (Physical Therapy)

**CHECOLA SEALS** Assistant Women's Basketball Coach, MAT University of West Alabama, BSE University of Central Arkansas

**NATALIE SHOCK** Women's Softball Coach, MSE University of Central Arkansas, BSE University of Central Arkansas

**DARRELL WALSH** Compliance Officer, MS University of Central Arkansas, BSE University of Central Arkansas

**TOBY WHITE** Baseball Coach, MSE University of Central Arkansas, BS Louisiana College

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