PREFACE

This catalog provides information about the academic programs of Cameron University. It also contains information concerning admissions, academic offerings and requirements, services available to students, academic offerings and a list of the administrative officers and faculty of the University. While every effort has been made to make this catalog as complete and accurate as possible, changes may occur at any time in requirements, deadlines, fees, curricula and courses listed in this catalog. All such changes are effective at such time as the proper institutional authorities determine and may apply not only to prospective students but also to those who are already enrolled in the University. This catalog should not be construed as a contract between Cameron and any person.

The courses listed in a curriculum are required, but the display of a curriculum does not in any way indicate the length of time required for a student to finish degree requirements. Rather, this display is intended as a guide to indicate the preferred order for completion of degree requirements. Exceptions to certain requirements may be petitioned through proper academic channels.

Because this catalog was prepared well in advance of its effective date, the course descriptions may differ in some instances from actual content taught in some courses, due to advancements in the discipline or decisions to change the scope of the course. Thus, the descriptions that follow are not provided in the nature of a contractual obligation. Some of the newer courses and changes in courses are included in this catalog pending their approval by the Oklahoma State Regents for Higher Education. Consequently, students should consult the appropriate departmental advisor and refer to the class schedule for the offerings in any given academic session.

ACADEMIC CALENDARS

Cameron University’s academic calendar is approved by the President or his/her designee and submitted annually to the State Regents. The academic calendar shall describe any alternative schedules. Submission is due by January 1 prior to the summer semester to which the proposed calendar applies.

The uniform academic calendar for institutions in The Oklahoma State System of Higher Education consists of the fall and spring semesters and a summer term defined as follows:

A. The summer session begins about the last week in May or the first week in June and ends late July or early August.
B. The fall semester begins mid- to late August or early September, closing just prior to the Christmas vacation period.
C. The spring semester begins following the Christmas vacation in January and ends prior to the first of June.
D. Academic terms shorter than a traditional semester or summer session, generally referred to as “intersessions,” may be conducted between semesters or between the summer session and spring and fall semesters. Block or alternative course schedules may also occur within the dates set forth for a semester or summer session.

The approved calendar is distributed to all departments and is included in the Enrollment Schedule each semester and summer session.

OUTCOMES ASSESSMENT

Cameron University's comprehensive outcomes assessment program, mandated by the Oklahoma State Regents for Higher Education, consists of entry level assessment, general education assessment, program outcomes assessment, and student satisfaction assessment. Participation by students may be required as a condition of enrollment, continued enrollment, or graduation.
Cameron University is accredited by THE HIGHER LEARNING COMMISSION, A COMMISSION OF THE NORTH CENTRAL ASSOCIATION OF COLLEGES AND SCHOOLS, 30 North LaSalle, Suite 2400, Chicago, Illinois 60602-2504.

The undergraduate and graduate degree programs offered by the School of Business are accredited by the ASSOCIATION OF COLLEGIATE BUSINESS SCHOOLS AND PROGRAMS (ACSBP), 7007 College Boulevard, Suite 420, Overland Park, Kansas 66211. The School of Business is also a member of the AACSB-THE INTERNATIONAL ASSOCIATION FOR MANAGEMENT EDUCATION, 600 Emerson Road, Suite 300, St. Louis, Missouri 63141-6762.

The Teacher Education programs at Cameron University are accredited by the State, OKLAHOMA COMMISSION FOR TEACHER PREPARATION, 4545 N. Lincoln Boulevard, Suite 275, Oklahoma City, Oklahoma 73105-3418 and by the NATIONAL COUNCIL FOR THE ACCREDITATION OF TEACHER EDUCATION (NCATE), 2010 Massachusetts Avenue, NW, Suite 500, Washington, D.C. 20036-1023. Approved graduates are recommended for teaching licenses in the elementary and secondary schools of Oklahoma.

The Bachelor of Arts in Music and Bachelor of Music Degrees offered by the Department of Music are accredited by the NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC, 11250 Roger Bacon Drive, Suite 21, Reston, Virginia 20190.

The Computer Aided Design Drafting (A.A.S. Degree) curriculum is certified by the AMERICAN DESIGN DRAFTING ASSOCIATION, 105 E. Main Street, Newbern, Tennessee 38059.

The Medical Technology curriculum is accredited by the NATIONAL ACCREDITING AGENCY FOR CLINICAL LABORATORY SCIENCES (NAACLS) in cooperation with the COMMISSION ON ACCREDITATION OF ALLIED HEALTH EDUCATION PROGRAMS, 35 East Wacker, Suite 1970, Chicago, Illinois 60601-2208.

Cameron University is committed to the principles of equal opportunity and affirmative action and promotes an environment of awareness and understanding of culturally diverse groups in our society. The University strives to maintain a campus climate of mutual respect and tolerance that is free from discrimination. Discrimination is unlawful and undermines the freedom of students, faculty, and staff to productively learn and work at the University.

To obtain information about applicable laws or to file a complaint of discrimination, including harassment, on the basis of race, color, national origin, sex, age, religion, disability, or status as a veteran, contact Dr. Sylvia Burgess, Equal Opportunity Office, 415 N. Shepler, 2800 W. Gore Blvd., Lawton, Oklahoma 73505, or you may call (580) 581-2946.
DEGREE PROGRAMS

Cameron University offers curricula leading to master's, bachelor's and associate degrees. The following bachelor's degrees are offered: Bachelor of Arts (B.A.), Bachelor of Music (B.M.), Bachelor of Science (B.S.), Bachelor of Accounting (B.Acc.,) and Bachelor of Fine Arts (B.F.A.). Associate of Science (A.S.) and Associate of Applied Science (A.A.S.) degrees are also offered. Associate and bachelor's degree programs include a general education requirement and a major or concentration. Bachelor's degree programs also include a minor (or major-minor) and electives. Development of expertise in a discipline occurs in the major courses; a minor broadens the student's education. General education provides the common experience and knowledge that characterize the academically educated person. Electives afford the opportunity for both exploration and continued study in areas of particular interest.

Students are responsible for meeting all degree requirements. It is essential that each student (1) become familiar with the requirements for the degree being pursued, (2) formally request substitutions or waivers of courses necessary to meet degree requirements, and (3) verify each enrollment to ensure the courses apply toward degree requirements, satisfy a prerequisite, or meet some mandated institutional requirement.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Major</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Master of Science</td>
<td>Behavioral Science</td>
<td>Alternate</td>
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<td>Psychology</td>
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<td>Educational Leadership</td>
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<td>Entrepreneurial Studies</td>
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<td>Master of Education</td>
<td>Education</td>
<td>Elementary Education</td>
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<td>Secondary Education</td>
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<td>Teaching and Learning</td>
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<tr>
<td>Bachelor of Science</td>
<td>Agriculture</td>
<td>Agriculture Mechanization</td>
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<tr>
<td></td>
<td>Agriculture Business Management</td>
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<td>Agronomy</td>
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<td></td>
<td>Animal Science</td>
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<td></td>
<td>Environmental Science</td>
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</tbody>
</table>

*See the Graduate School Catalog for details regarding masters degree programs at www.cameron.edu/graduate.

Undergraduate Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Major</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<td>Music</td>
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<td>Political Science</td>
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<td>International Languages</td>
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<td>Romance Languages Education</td>
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<td>Social Studies Education</td>
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<tr>
<td>Communication</td>
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<td>Speech Communication</td>
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<td>Radio/Television</td>
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<td></td>
<td></td>
<td>Journalism</td>
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<td></td>
<td>Public Relations/Organizational Communication</td>
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<tr>
<td>Theatre Arts</td>
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<tr>
<td>Bachelor of Science</td>
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<td>Agriculture Mechanization</td>
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<td>Chemistry Education</td>
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<tr>
<td>Computer Information Systems</td>
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<tr>
<td>Computer Science</td>
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<tr>
<td>Criminal Justice</td>
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<td>Electronic Engineering Technology</td>
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<td>Early Childhood Education</td>
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<tr>
<td>Elementary Education</td>
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<tr>
<td>Engineering Design Technology</td>
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<tr>
<td>Health Physical Education</td>
<td>Physical Education &amp; Health</td>
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<td>Sport/Fitness Management</td>
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<tr>
<td>Human Ecology</td>
<td>Family Science</td>
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<td>Information Technology</td>
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<td>Interdisciplinary Studies</td>
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<tr>
<td>Medical Technology</td>
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<tr>
<td>Multimedia Design</td>
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<td>Natural Science</td>
<td>Biology</td>
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<td>Sociology</td>
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## Technology

### Undergraduate Specialty Degrees

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<tr>
<td>Bachelor of Accounting</td>
<td>Accounting</td>
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</tr>
<tr>
<td>Bachelor of Business Administration</td>
<td>Business Administration</td>
<td>Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing</td>
</tr>
<tr>
<td>Bachelor of Fine Arts</td>
<td>Art</td>
<td>Graphic Design</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>Music</td>
<td>Composition, Instrumental Music, Education (Pre-certification), Instrumental Performance, Piano, Vocal, Vocal/Keyboard</td>
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### Undergraduate Associate Degrees

<table>
<thead>
<tr>
<th>Degree</th>
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</thead>
<tbody>
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<td>Associate in Science</td>
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<tr>
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<td>Interdisciplinary Studies</td>
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<tr>
<td>Associate in Applied Science</td>
<td>Applied Technology</td>
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<tr>
<td></td>
<td>CAD Drafting</td>
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<td>Computer Information Systems</td>
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<td></td>
<td>Criminal Justice</td>
<td>Corrections, Law Enforcement</td>
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<tr>
<td></td>
<td>Early Child Education &amp; Care</td>
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<td></td>
<td>Electronic Engineering</td>
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<tr>
<td></td>
<td>Information Technology</td>
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<td></td>
<td>Multimedia Design</td>
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<td></td>
<td>Respiratory Care</td>
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</tbody>
</table>

## NON DEGREE PROGRAMS

Pre-Professional Programs. Cameron University offers course work at the pre-professional level for such fields as medicine, dentistry, law, pharmacy, veterinary medicine and engineering.

The requirements for admission to specific professional schools vary considerably. Students should therefore consult the catalog of the professional school to which they plan to apply for admission for guidance in course selection. Departmental chairs at Cameron are familiar with the requirements of most professional schools and can assist in appropriate selection of courses.

### PROGRAM

- Architecture
- Dentistry
- Engineering
  - Aero Space
  - Chemical
  - Civil
  - Electrical
  - Industrial
  - Mechanical
- Law
- Medicine
- Pharmacy
- Veterinary Medicine

### ADVISEMENT DEPARTMENT

- Computing and Technology
- Biological Sciences/Physical Sciences
- Computing and Technology
- Physical Sciences
- Computing and Technology
- Computing and Technology
- Computing and Technology
- Criminal Justice and Sociology
- Biological Sciences/Physical Sciences
- Biological Sciences/Physical Sciences
- Agriculture/Biological Sciences/Physical Sciences
THE HONORS PROGRAM

Cameron University's Honors Program (CUHP) supports and rewards academically advanced students by providing them with exceptional opportunities for learning both inside and outside the traditional classroom setting. CUHP students dramatically enrich their undergraduate experience by enrolling in team-taught courses, participating in frequent field trips, exploring subjects from interdisciplinary perspectives, conducting independent research for presentation at conferences and/or publication, benefitting the community through service-learning projects, and discovering how to work collaboratively to define and resolve specific problems appropriate to their interests and areas of expertise. The CUHP also provides a central focus for the pursuit of academic excellence on the Cameron campus.

The CUHP offers honors sections of numerous courses that meet general education requirements; the program also works with faculty and interested students to set up honors options for many traditional courses. Additionally, all CUHP students must complete one interdisciplinary upper division honors seminar as well as two core colloquia (Great Works I and Great Works II) that are taught by multiple faculty from different departments.

These courses and honors options are open to students with high levels of talent, preparation, and/or motivation. All students who have scored 25 or higher on the ACT are automatically eligible for admission into the CUHP and are encouraged to apply. Students whose test scores do not make them automatically eligible but who nevertheless want to make the most of their academic experience at Cameron are invited to apply to the program director for provisional admission. Typically, honors courses are small, discussion-based classes, and they are often augmented by field trips, museum visits, guest lectures, and technological enhancements. Full listings of honors course offerings are published regularly by the CUHP office. Honors course offerings are structured to encourage students to complete a significant portion of their general education requirements in honors courses and to encourage students to reconsider the interrelationship between disciplines and careers. The CUHP also encourages the development of high quality undergraduate research, honors capstone projects, and the development of honors degree tracks in the major disciplines. Successful completion of individual honors courses and/or comprehensive honors program tracks will be acknowledged on the Cameron transcript.

The program also coordinates the activities of the Cameron honor societies and works to increase their visibility and to maximize their roles as hubs of academic leadership in the Cameron campus community. Membership in Cameron’s honor societies is acknowledged each year during Convocation.

The aim of the CUHP is to produce graduates who have gone farther, learned more, and become more capable of leadership both in the community and in a chosen field of study.

DIPLOMAS AND TRANSCRIPTS

Cameron University views the diploma as a “ceremonial” document, suitable for display purposes. The document officially verifying completion of degree requirements is the transcript issued by the Registrar’s Office.

GENERAL INFORMATION

HISTORY

The history of Cameron University corresponds to the history of the area it serves in Southwest Oklahoma. It was founded by the Oklahoma Legislature in 1908 as Cameron State School of Agriculture, one of six agricultural high schools in the state and placed under the jurisdiction of the State Commission of Agriculture and Industrial Education. The institution was named for E. D. Cameron, first State Superintendent of Schools.

Cameron added junior college work in 1927 when local needs demanded access to higher education. With the changed function came the name Cameron State Agricultural College. It became solely a college in 1941 when the Oklahoma State System of Higher Education was formed, and joined the group of institutions governed by the Board of Regents for Oklahoma A&M Colleges.

Baccalaureate degrees were authorized in 1966 by the Oklahoma State Regents for Higher Education, following action by the Legislature. In May of 1970, the first bachelors degrees were awarded. The institution’s name was changed to Cameron College in 1971, and was further amended to Cameron University in 1974.

In 1988, the State Regents expanded Cameron’s functions to include offerings at the masters degree level. This change in function was the first granted to an Oklahoma institution since Cameron was given authority to offer bachelors degrees more than 20 years earlier. The first masters degrees were awarded to forty-one graduates in May of 1990.

In recognition that Cameron’s mission had become significantly more complex and predominantly urban, on June 1, 1992, the governance of the University was transferred by the Oklahoma Legislature to the governing board for the University of Oklahoma, the Board of Regents of the University of Oklahoma (“Board of Regents”). With the transfer of governance came new affiliations between Cameron and the University of Oklahoma, which have broadened and strengthened academic offerings by both institutions.

WHO WE ARE

Cameron University is a regional, public university serving Southwest Oklahoma and a global learning community. The University is governed by The Board of Regents of The University of Oklahoma within a state system coordinated by the Oklahoma State Regents for Higher Education. Cameron University offers associate, baccalaureate, and masters degree programs.

MISSION STATEMENT

Cameron University provides a diverse and dynamic student body access to quality educational opportunities; fosters a student-centered academic environment that combines innovative classroom teaching with experiential learning; prepares students for professional success, responsible citizenship, life-long learning, and meaningful contributions to a rapidly changing world; and is a driving force in the cultural life and economic development of the region.

INSTITUTIONAL PURPOSES

In pursuit of its mission, the University has established three areas of commitment and service: education for effective living, education for specialized fields of endeavor, and education through community service.

1. Education for Effective Living

Cameron University's program of education for effective living is designed to provide common experiences needed by all citizens. The program's objectives are to encourage the student to think clearly, creatively, and critically about those problems confronting the individual and society; to stimulate the student to seek more knowledge, develop more tolerance, and to acquire greater awareness of the world community; to assist the student in making contributions to the groups of which society is composed; and to foster within the student the desire to continue the pursuit of knowledge whereby a better understanding of self and society is afforded. The University seeks to facilitate these objectives through required general education courses in communications, mathematics, natural sciences, American history and political science, humanities, behavioral sciences, economics, physical activities, and through a program of student services.

2. Education for Specialized Fields of Endeavor

The purpose of specialized education is to develop the technical and professional competencies of individuals in order that they meet the demands and requirements of modern professions. The University is committed to specialized education in four realms:
Baccalaureate Degree Programs

Baccalaureate degree programs provide for a comprehensive background and concentrated investigation in one or more disciplines. These curricula prepare the student for entrance into professions, for further professional training, or for graduate study. The University seeks to facilitate such objectives by offering curricula leading to the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Specialty.

Associate Degree Programs

The University recognizes that educational and occupational preparation in post-secondary programs having less than a baccalaureate objective is an essential part of meeting the objectives of the University and the needs of individuals and society. The University seeks to facilitate such objectives by offering curricula culminating in Associate in Applied Science Degrees and Associate in Science Degrees.

Teacher Education

The purpose of the teacher education program is to assist in the development of effective members of the teaching profession. The University seeks to facilitate this objective by offering both course work and practical experiences in professional teacher education curricula and in specialized programs in Early Childhood Education, in Elementary Education, Secondary Education, and Elementary-Secondary Education. Students who have successfully completed these programs and have passed the state certification examinations, may be recommended to the State Department of Education for Oklahoma state teaching credentials at the early childhood, elementary, secondary, or elementary-secondary level.

Graduate Degree Programs

The Graduate degree programs are designed to offer opportunities for advanced learning, professional preparation, economic enhancement, and personal development through concentrated and detailed study and research in any of several academic disciplines appropriate to persons living in Southwest Oklahoma. Cameron University facilitates such objectives by offering curricula leading to masters’ degrees. For more information refer to the Graduate Studies Catalog at www.cameron.edu/graduate.

3. Education Through Community Service

The University serves individuals, businesses, industries, and professions in the service area by making available, on campus and in the community, facilities and personnel who organize, promote and participate in both credit and non-credit conferences, institutes, workshops and vocational and extension courses. In addition, individual University personnel serve as resource persons for the community. The University also provides facilities and personnel for lectures, musical and dramatic productions, art exhibits and intercollegiate athletics. The University supports research projects appropriate to the University and outside agencies.

UNIVERSITY FUNCTIONS

The following functions are assigned to Cameron University by the State Regents for Higher Education:

-- To provide the educational programs of a senior college for the people living in the eleven counties of Southwest Oklahoma.
-- To provide a program of general education for all students designed to provide common experiences which are needed by all citizens if they are to live productively.
-- To provide programs of instruction in the liberal arts and sciences culminating in the awarding of Bachelor of Arts, Bachelor of Science or Bachelor of Specialty degrees.
-- To provide programs, involving both course work and practical experiences, designed to assist in the development of effective early childhood, elementary, secondary and elementary-secondary teachers.
-- To provide pre-professional course work and advisement for students planning to complete professional programs at other colleges and universities.
-- To provide post-secondary programs having less than a baccalaureate objective in technical and occupational education culminating in the awarding of Associate in Science and Associate in Applied Science Degrees.

-- To provide community services including programs of continuing education, both for credit and non-credit, cultural productions and special events designed to improve the intellectual, cultural, social, physical, moral, economic and occupational capacities of the people of Southwest Oklahoma.
-- To provide programs of instruction for military personnel, including those persons stationed at Fort Sill and other military installations in the region and those who desire to pursue Reserve Officers' Training programs.
-- To provide facilities, encouragement and financial support for faculty development and for faculty, student and constituent research projects.
-- To provide graduate level programs designed to offer opportunities for advanced learning, professional preparation, economic enhancement, and personal development culminating in Master's Degrees.

SERVICEMEMBERS’ OPPORTUNITY COLLEGE

Cameron University has been designated as a SERVICEMEMBERS' Opportunity College. Sponsored by the American Association of State Colleges and Universities, the SERVICEMEMBERS’ Opportunity College Project (SOC) represents a commitment to education for the military. This network of institutions with similar admissions, transfer and residence requirements and policies allows service members to move from random educational activities into program-completion efforts. It allows maximum coordination of opportunities among institutions. Students with a SOC agreement must complete the degree requirements within seven years from issue date.

The four-year degree areas offered through Cameron University are: Accounting, General Business, Marketing, Management, Computer Information Systems, Computer Science, Criminal Justice, Communications Electronic Systems, Electronic Engineering Technology, English, History, Mathematics, Psychology, Sociology, Political Science and Interdisciplinary Studies.

The two-year degrees are: Criminal Justice, Computer Information Systems, Electronic Engineering Technology, Computer Aided Design Drafting, and Interdisciplinary Studies.

This program is coordinated through the Admissions Office.

FINANCIAL INFORMATION

All students are charged a general fee which includes charges for registration, library and classroom and laboratory instruction. Special fees are charged for other services which are made available to students. The rates for both general and special fees are set by the Oklahoma State Regents for Higher Education and are subject to periodic review and revision.

Refer to the current Enrollment Schedule or contact the University Business Office for current fees and refund policies.

FINANCIAL ASSISTANCE

Cameron has assistance programs in the form of scholarships, grants, loans, and employment. Students intending to apply for financial assistance should contact the Office of Financial Assistance well in advance of the time to enter CU. Application materials may be obtained from the Financial Assistance Office or by going to the following website: http://www.cameron.edu/financial_aid/apply.html.

SCHOLARSHIPS

Each year a variety of scholarships are awarded to Cameron students. The scholarships are made available by the State of Oklahoma, Cameron University, and private organizations through Cameron.

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Each year a variety of scholarships are awarded to Cameron students. The scholarships are made available by the State of Oklahoma, Cameron University, and private organizations through Cameron.
Scholarships are awarded on a competitive basis and are based upon scholastic ability, financial need, demonstrated talent in individual studies, leadership, athletics or fine arts.

For additional information, applicants should contact the Financial Assistance Office, the Director of Admissions, or Chair of the department in the area in which the scholarship is desired.

PRESIDENTIAL LEADERS/UNIVERSITY SCHOLARS (PLUS)

A limited number of PLUS Scholarships are awarded to entering freshman students who have demonstrated a high degree of leadership and scholarship ability. The PLUS Scholarship is a four year tuition waiver and room scholarship available to residents of the State of Oklahoma. Interested applicants should fill out the Cameron University Scholarship application form available in the Admissions Office of Cameron University. Deadline date for consideration is February 1.

NATIVE AMERICAN TRIBAL SCHOLARSHIPS/GRANTS

Individual native American tribes provide annual scholarship grants to Indian students to attend college. In order to qualify students should contact their tribal office for instructions and availability of grants. Most tribal offices will then require students to make application through the University for a need analysis. It is recommended that students desiring assistance contact their tribal office as early as possible for information and deadline dates.

REHABILITATION SCHOLARSHIPS

The Vocational Rehabilitation Office offers tuition and book scholarships to students with mental, physical or emotional disabilities. The local office is located at 1324 NW 53rd, Lawton, Oklahoma. Their telephone number is (580) 353-8300. If you are interested, you should call and make an appointment with them to find out if you qualify.

PRIVATE ORGANIZATION SCHOLARSHIPS

Students should explore the availability of scholarships offered by their home town civic, service and fraternal organizations.

ARMY ROTC SCHOLARSHIP PROGRAM

*Four-, three-, and two-year Army Reserve Officers’ Training Corps scholarships are available and awarded on a competitive basis to help outstanding young people pay for their college education while completing requirements for a commission in the United States Army.

A U.S. Army ROTC scholarship will provide financial assistance toward college tuition and educational fees. Additionally, students receive funds to purchase textbooks, classroom supplies and equipment. Army ROTC scholarship winners also receive a tax-free subsistence allowance each month for up to 10 months a school year and are paid while attending the ROTC Leader Development and Assessment Course.

During the period of their scholarship, recipients may, if qualified, receive any portion of the Montgomery GI Bill/Army College Fund or Veterans Educational Assistance Program (VEAP) benefits they earned while on active duty.

*Cameron University non-scholarship students who participate in the Army Reserve Officers’ Training Corps Simultaneous Membership program (Reserve/National Guard) are eligible to earn tuition assistance from the Army Reserves/National Guard.

*Additional smaller scholarships that awarded to students enrolled in the ROTC program include:

- Armed Forces Communication and Electronic Association
- General Creighton Abrams
- General Melvin Zais
- Pentagon Federal Credit Union
- United Services Automobile Association and SPRINT
- Colonel Jack Wolfson

Further information is available at the Military Science Department.

Additional scholarship information can be found on the University Financial Assistance website: www.cameron.edu/financial_aid/scholarships.

STUDENT EMPLOYMENT

Cameron University offers employment to a limited number of students each year in the campus laboratories, offices, residence halls and library.

Employment eligibility is determined by financial need. Students seeking employment on campus should fill out a financial aid application (FAFSA). Vacancy listings of on-campus jobs are available at www.cameron.edu/financial_aid/workstudy.html. Off-campus job vacancies are listed in the Career Services Center.

GRANTS

Federal and state funds are available through Cameron University in the form of educational grants (Pell, SEOG, ACG, SMART and OTAG) to help students with exceptional financial need to pursue a course of undergraduate study. The student must be enrolled or have been accepted for enrollment and must show the ability to maintain good academic standing.

The grant amounts vary depending on (1) financial need and (2) amount of assistance provided from non-federal grants, scholarships, loans and student employment. The student must be enrolled in an eligible program leading to a degree or certificate. Applications may be obtained from the Office of Financial Assistance, Cameron University, Lawton, Oklahoma 73505, or at the following website: http://www.cameron.edu/financial_aid/apply.html.

LOANS

Cameron University is a participant in the Federal Stafford Student Loan Program. If all federal requirements are met, an applicant who is an undergraduate or a graduate student in an eligible program can borrow money for educational expenses. Applicants must be enrolled or be accepted for enrollment on at least a half-time basis and show evidence of ability to maintain satisfactory academic progress. Repayment and interest requirements will depend upon the type of loan applied for and current federal guidelines.

For detailed information about each loan and the required application form, please contact the Office of Financial Assistance.

VETERANS BENEFITS

Cameron University is certified by the Oklahoma State Accrediting Agency to the Veterans Administration (VA) as an approved training institution for certain veterans, eligible dependents or survivors and active service members who qualify for federally-enacted education benefits administered by the VA.

Cameron University's Veterans Affairs Office (VAO) provides assistance and information on application for benefits, available programs, admission and enrollment, general advisement and counseling and special tutorial services. A primary function of VAO is the certification of student enrollment and attendance to the VA. Eligible students are encouraged to use VAO services in matters pertaining to school and related VA benefits.

Initiation and continuation of VA education benefits are accomplished by eligible students through the Veterans Affairs Office. Students must submit paperwork indicating an intent to enroll at Cameron University and a request for assistance with veterans benefits at least ten weeks prior to the beginning of each semester. It is the responsibility of the student to report to the Office of Veterans Affairs prior to each semester.
ADMISSIONS

Requirements for admission to Cameron University are established by the Oklahoma State Regents for Higher Education.

For admission requirements for Graduate Studies, contact the Office of Admissions at 580-581-5533 or www.cameron.edu/graduate.

**Associate of Science and Baccalaureate Degree Admission Requirements:** Minimum admissions requirements are as follows:

- graduate of an accredited high school or possess a GED (student's high school class must have graduated) minimum composite ACT of 20 or SAT of 890 OR rank in the top 50 percent of high school graduating class and have a high school (4 years) grade point average of at least 2.7.
- meet the minimum high school curricular requirements:
  - 4 years of English (grammar, composition, literature)
  - 3 years of mathematics (Algebra I and higher level mathematics)
  - *2 years of lab science (may not include general science)
  - 3 years of history and citizenship skills (including 1 year of American History and 2 additional years from the subjects of history, economics, geography, government, non-western culture)
  - *3 years of other (additional subjects previously mentioned or selected from computer science, foreign language)
- *Effective Fall 2010, students will be required to complete 3 years of lab science and 2 years of other subjects previously mentioned or selected from computer science, foreign language.

Graduates of unaccredited high schools or home study programs, whose high school class has graduated, may satisfy admissions requirements by taking the ACT or SAT and achieving a minimum ACT score of 20 or SAT of 890 and satisfying the curricular requirements as certified by the school or for home study, the parent.

Individuals meeting these criteria are eligible for admission to baccalaureate, associate of science, or associate of applied science degrees.

**Associate in Applied Science Admissions Requirements:** Minimum admissions requirements are as follows:

- graduate of an accredited high school or possess a GED (student's high school class must have graduated)
- completed the ACT or SAT test

Students lacking curricular requirements may be required to take remedial/developmental courses. These courses must be completed within the first 24 semester hours attempted, with a grade of "C" or higher and prior to taking courses in the discipline. To transfer to an associate of science or baccalaureate degree program the student must meet both the curricular and performance admission requirements.

**Non-Degree Seeking Student:** A student who does not plan to pursue a degree may enroll in a maximum of nine semester hours without submitting academic credentials or meeting the academic curricular or performance requirements. Enrollment in mathematics and English courses will be determined by placement tests. Enrollment beyond nine hours will require formal admission.

**Alternative Admission:** This admission category is for those individuals who do not meet the performance or curricular requirements, but (1) have a reasonable chance for academic success, (2) have unusual talent or ability in art, drama, music, sports, and the like, or (3) are educationally or economically disadvantaged and show promise of being able to succeed in a program or curriculum at Cameron. Students applying for admission under this section should contact the Admissions Office for additional information.

**Adult Admission:** Students who are 21 years of age or older or active duty military who have graduated from high school or have a GED are eligible for admission to Cameron. Adult students with curricular deficiencies must clear these by (1) successfully completing zero-level courses, (2) achieving a satisfactory score on the ACT or other appropriate examination in each area of deficiency, (3) exhibiting the ability to succeed in college-level course work as determined by placement testing, or (4) receiving a positive evaluation of his/her education and experience.

**Opportunity Admission Category:** Students who have not graduated from high school whose composite standard score on the American College Test places them at the 99th percentile of all students using Oklahoma norms or whose combined verbal and mathematical score on the Scholastic Aptitude Test places them at the 99th percentile of all students using national norms may apply for admission to Cameron. Admission will be based on the test scores, evaluation of the student's level of maturity and ability to function in the adult college environment, and whether the experience will be in the best interest of the student intellectually and socially.

**International Students and Students for Whom English is a Second Language Admission:** International students are required to meet the equivalent academic performance standards listed above. Additionally, students for whom English is a second language will be required to present evidence of proficiency in the English language prior to admission. Applicants for first-time admission (less than 24 semester hours at a regionally accredited U.S. institution of higher education) at the undergraduate level must present a score of 500 or higher on the TOEFL test or a score of 173 or higher on the computer-based TOEFL in order to meet the standards for unqualified admission to Cameron. Contact Admissions Office for additional information.

**Concurrent Enrollment of High School Students:** A senior student enrolled in an accredited Oklahoma high school may be admitted provisionally if the following criteria are met. The student must:

- Earn an ACT composite score of 20 or higher or have a high school grade point average of 3.0 and rank in the top 50% of senior class.
- Provide a signed statement from the high school principal stating the senior high school student will be able to satisfy high school graduation requirements (including curricular requirements for college admission) no later than the spring semester of the senior year.
- Provide a letter of recommendation from high school counselor.
- Provide written permission from parent(s) or legal guardian stating the high school senior may enroll concurrently.
- Be enrolled in less than a full-time load (fewer than six courses per semester) at the high school as attested by the high school principal.
- Meet ACT subscore requirements for enrollment (no secondary testing is permitted).

An eleventh grade student enrolled in an accredited high school may be admitted provisionally if the following additional criteria are met. The student must:

- Earn an ACT composite score of 23 or higher or have a high school grade point average of 3.5.

A student receiving high school level instruction at home or from an unaccredited high school may be admitted provisionally if the following criteria are met:

- Student is 17 years of age or older and meets the requirements of the 50th percentile on standardized test (ACT/SAT).
- Student is 16 years of age and meets the requirements of the 72nd percentile on standardized test (ACT/SAT).

Maximum load, including high school and college courses, for concurrently enrolled students is 19 semester hours. One high school course is equivalent to three semester hours. Contact the Admissions Office for complete information on the concurrent program.
Transfer Admission

Transfer applicants must submit official transcripts from ALL colleges attended. An undergraduate student with more than six attempted semester hours, excluding zero-level courses or pre-college work and excluding credit hours accumulated by concurrently enrolled high school students is considered a transfer student.

Transfer From Other Oklahoma State System Institutions: A student may transfer to Cameron from another State System institution under the following conditions:

1. The student originally met both the high school curricular requirements and academic performance standards for admission to Cameron and has a grade point average high enough to meet Cameron's retention standards, or
2. The student originally met the high school curricular requirements but not the academic performance standards for admission to Cameron and has a grade point average high enough to meet Cameron's retention standards based on at least 24 attempted semester hours of regularly graded (A, B, C, D, F) college work, or
3. The student originally met the performance but not the curricular requirements for admission to Cameron and has removed curricular deficiencies, or
4. The student originally met neither the curricular nor the academic performance requirements for admission to Cameron, but has a grade point average high enough to meet Cameron's retention standards based on at least 24 attempted semester hours of regularly graded (A, B, C, D, F) college work and has removed curricular deficiencies.

Transfer From an Out-of-State Institution: In addition to meeting Cameron’s entrance requirements, out-of-state transfers must meet the following:

1. Be in good standing in the institution from which s/he plans to transfer.
2. Have made satisfactory progress (an average grade of “C” or better or met Cameron’s retention standards, whichever is higher) in the institution from which s/he plans to transfer.
3. Students transferring from institutions not accredited by a regional association may have credits transferred by meeting the Oklahoma State Regents for Higher Education requirements.

Admission of Students Suspended From Other Institutions: A student suspended for academic reasons from other institutions may appeal for admission to Cameron. Information regarding this policy and appeal procedures may be obtained from the Admissions Office.

Transfer Probation: Students who do not meet the academic criteria including curricular requirements as stated above under the transfer categories, but who have not been formally suspended, may be admitted as “transfer probation” students. If grade point average (GPA) is less than 2.0, student will be admitted as a “transfer probation” student. Students seeking admission in this category must meet with an Admissions Officer regarding procedures and enrollment conditions.

Admission of Oklahoma State System Associate of Arts and Associate of Science Graduates: Students who have completed the requirements for an Associate of Arts or Associate of Science degree at an Oklahoma State System institution will be accepted as having fulfilled the general education requirements for bachelor of arts or bachelor of science degrees. Additional requirements will be required when (1) prerequisites for upper division courses are lacking, (2) grade levels required by Cameron have not been attained, or (3) professional licensing or certifying agencies requirements exceed the junior college general education requirements.

Re-Admission: Any former Cameron student who did not attend Cameron during the previous academic year must apply for re-admission.

Placement Tests

Cameron University uses ACT scores to determine placement in English, mathematics, reading and science courses for first-time entering freshmen. Students with an ACT score of less than 19 in English, mathematics, or reading are required to take a remedial course in the subject area or be approved for placement in a collegiate level course based on performance on computerized placement tests (CPT). Students with an ACT of less than 19 in science will be required to remediate any mathematics or reading performance deficiencies prior to taking a science course and will be required to complete three science courses to meet baccalaureate degree requirements.

CPT’s are required to place adult students in English and mathematics courses and to recommend placement in reading courses.

Remedial courses used to remove performance deficiencies are not college level courses; therefore, they do not apply toward any degree requirement. A special fee is assessed for these courses in addition to normal tuition and fees.

Falsification and Ownership of Records

Falsification of any admission record, whether by change, omission, or untrue statement will be grounds for permanent denial of admission to the University or suspension from the University with forfeiture of any credit earned.

All records required for admission (ACT/SAT scores, GED and transcripts) become the property of Cameron University.

Name Change

A student who has legally changed his/her name must provide appropriate documentation to substantiate the change. This documentation is to be submitted to the Registrar’s Office. All transcripts are issued under the student’s legal name as recorded in the Registrar’s Office.

ADMISSIONS RESIDENCE STATUS

Definitions

1. Resident of Oklahoma -- A resident of Oklahoma is one who has lived continuously in Oklahoma for at least 12 months duration and whose domicile is in Oklahoma. A person’s domicile is his/her true, fixed, permanent home or habitation. It is the place where he/she intends to remain and to which he/she expects to return. A person can have more than one residence, but only one domicile. Domicile has two components—residence and the intention to remain. When these two occur there is a domicile.
2. Independent Person -- An independent person (for admissions purposes) is one whose majority privileges (or is legally emancipated from the parental domicile) and who is responsible for his/her own care, custody, and support. (This definition does not apply to financial aid.)
3. Dependent Person -- A dependent person (for admissions purposes) is one who is under the care, custody, and support of a parent or other legally sanctioned parental surrogate.
4. Full-Time Student -- A full-time undergraduate student is one enrolled in a minimum of 12 credit hours per semester in an academic year or a minimum of 6 credit hours in a summer session. A full-time graduate student is one enrolled in a minimum of 9 credit hours per semester in an academic year or a minimum of 4 credit hours in a summer session.

Independent Persons (definition for admissions purpose—does not apply to financial aid)

If a person enjoying majority privileges and who is independent of parental domicile can provide adequate and satisfactory proof of his/her having come to Oklahoma with the intention of establishing domicile, he/she may be granted resident student classification at the next enrollment occurring after expiration of 12 months following the establishment of domicile in Oklahoma. The spouse of such person must establish proof of domiciliary status on a separate basis.
Dependent Persons (definition for admissions purpose)

The legal residence of a dependent person is that of his/her father; or that of his/her mother if his/her father be not living or if the parents are separated and the dependent person habitually resides with the mother; or, if both parents are dead, that of his/her legally appointed guardian or anyone else with whom he/she habitually resides in the absence of formal legal designation. A dependent person may become emancipated (freed from his/her parental domicile) through marriage, formal court action, abandonment by parents, or positive action on his/her own part evidential of his/her alienation of parental domicile. To qualify under the latter category, a dependent person must have completely separated himself/herself from the parental domicile and have proved that such separation is complete and permanent. Mere absence from the parental domicile is not proof of its complete abandonment. If an applicant can provide adequate and satisfactory proof of complete emancipation and his/her having come to Oklahoma with the intention of establishing domicile, he/she may be granted resident student classification at the next enrollment occurring after expiration of 12 months following establishment of domicile in Oklahoma.

Foreign Nationals

An individual who is not a United States national may become eligible for classification as an Oklahoma resident provided that he/she holds "permanent resident status" as defined by the Immigration and Naturalization Service, evidenced by whatever documents may be required under applicable Federal law, who has resided in Oklahoma for at least 12 consecutive months and who meets the criteria for establishment of domicile as set forth in the policy of the State Regents for Higher Education.

Military Personnel

A student attending an institution while on full-time active duty in the armed forces is considered as having a temporary residence in the state in which s/he is attending school; therefore, a student neither gains nor loses resident status solely by such military service. Members of the armed services stationed in Oklahoma, their spouses and dependent children shall be admitted without the payment of non-resident tuition so long as they continue to be stationed in the state in the full-time military service and under military orders.

Proof of Residence

The burden of proof of establishing Oklahoma residence or domicile shall be upon the applicant. Some of the various types of evidence that may serve as proof of one's residence status as defined by the Immigration and Naturalization Service, evidenced by whatever documents may be required under applicable Federal law, who has resided in Oklahoma for at least 12 consecutive months and who meets the criteria for establishment of domicile as set forth in the policy of the State Regents for Higher Education.

Reclassification

In addition to the aforementioned criteria, an independent person seeking to be reclassified as a resident of Oklahoma must meet the following criteria for the current and immediately preceding year:
1. The person must not have been claimed as an exemption for state and federal tax purposes by his/her non-resident parents.
2. The person is self-supporting as evidenced by having provided the majority of funds for his/her own upkeep.
3. The person must have maintained a continuous residence in Oklahoma for the period set forth above.

ACADEMIC REGULATIONS

1. Requirements for Graduation.
   • Completion of the specified degree requirements with a minimum retention/graduation grade point average of 2.0 and a minimum retention/graduation grade point average of 2.0 in all work taken at Cameron University.
   • Baccalaureate degree candidates must satisfactorily complete a minimum of 30 semester hours in residence at Cameron University. At least 15 of the final 30 hours applied toward the degree or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at the awarding institution.
   • Associate degree candidates must complete a minimum of 15 semester hours in residence at Cameron University.
   • Baccalaureate degree candidates must complete a minimum of 60 semester hours, excluding physical education activity courses, at a baccalaureate degree-granting institution, 40 semester hours of which must be upper-division excluding physical education activity courses.
   • Baccalaureate degrees must include a liberal arts and science component as follows: bachelor of arts, 80 semester hours minimum; bachelor of science, 55 semester hours minimum; and bachelor of specialty, 40 semester hours minimum.
   • Note: Some degrees have requirements in addition to these University requirements. Consult the specific degree for a listing of any such requirements.

2. Grade Point Averages.
   Cumulative Grade Point Average. The ratio of total grade points to the total grade point earning hours attempted throughout a student's undergraduate career excluding remedial/developmental courses. It is calculated by dividing the total grade points earned by the total grade point earning hours attempted. Credit hours to which an "F", "W", "S", "U", "AU", "P", or "AW" has been assigned are not grade point earning hours.
   Retention/Graduation Grade Point Average. The ratio of grade points earned to the total grade point earning hours attempted excluding remedial/developmental courses, "forgiven" courses, "reprieved" courses, and physical education activity courses.

3. Graduation Under a Particular Catalog. Curricular requirements for baccalaureate and associate degrees can be changed for students who complete those degrees within six years of the first date of enrollment at Cameron only to the extent that such changes do not delay graduation or add additional hours to the program.

4. Major Requirements. A minimum of one-half of the upper-division credits required for a major must be earned in residence at Cameron University. The dean of the school responsible for the major, acting upon a written request from the student accompanied by a statement from the student's advisor and the chair of the department responsible for the major, may approve an exception to this regulation. The applicability of major courses, taken before the major was declared, is determined by the dean of the school responsible for the major.

5. Transfer Credit from Regionally Accredited Colleges and Universities. Semester hours transferred from accredited colleges and universities are equated on a one-to-one basis. Quarter hours are equated on the basis of three quarter hours to two semester hours. The maximum number of lower division hours transferred from non-baccalaureate degree granting institutions which may be applied toward baccalaureate degree requirements is equal to the total hours required for the degree less 60. Responsibility for determining the applicability of transfer credits to meet major or minor requirements rests with the dean of the school offering the major or minor. This responsibility may be delegated to department chairs or faculty members under the supervision of the dean. The Vice President for Academic Affairs is ultimately responsible for determining the applicability of transfer credits to meet general education requirements. The Vice President for Academic Affairs may designate faculty members or admissions personnel to assist with this function.

6. Concurrent Enrollment. A student seeking a degree at Cameron who desires to earn credits concurrently at another institution or through correspondence, must secure approval from the dean of the school (at Cameron) responsible for the major prior to taking the course if the credits are to be used to meet degree requirements.
7. **Correspondence Credit.** Credit earned through correspondence offered by regionally accredited institutions may be applied toward degree requirements upon recommendation by the student's advisor with approval of the department chair of the student's major and the dean responsible for the major.

8. **Second Baccalaureate Degree.** A student may receive a second baccalaureate degree upon completion of (1) a minimum of 30 semester hours beyond the first degree with at least 15 of the hours in residence at Cameron, (2) a total of at least 30 semester hours in residence at Cameron, (3) the requirements for an additional major, and (4) the U.S. History and American Government requirements.

9. **Second Associate Degree.** A student may receive a second associate degree upon completion of a minimum of 15 semester hours in residence at Cameron University in addition to the hours required for the first degree, provided the requirements for the degree are met.

10. **Double Majors.** Students may have more than one major listed on their transcripts, provided they complete all of the requirements for each of the majors. A student seeking two majors must designate one of the majors as the "first major." The degree awarded will be determined by the designated "first major." Students fulfilling all of the requirements of a "second major" are not required to complete a minor.

11. **Duplicative Use of Courses.** Credits earned in a particular course may not be used to fulfill the requirements of two different majors or of both a major and a minor. Should the same course be required in each of a student's majors or in both his major and minor (See "Double Majors"), a student will be expected to complete an additional elective course in the discipline in which the duplication occurs.

12. **Graduation Application.** Each candidate for a degree shall file a graduation application with the Office of the Registrar the semester or summer session prior to the session in which the student expects to graduate.

13. **Presence at Commencement Exercises.** An annual commencement exercise is conducted at the end of the spring semester. Students who complete graduation requirements that semester or at the end of the preceding fall semester and those who apply to graduate at the end of the following summer session or fall semester, are invited and encouraged to attend. Students who have not completed graduation requirements by the end of the spring semester must file a notice of intention to graduate and pay the required fee in order to be included in the program of the commencement.

14. **Recognition of Honor Graduates.** Graduating baccalaureate and associate degree candidates with superior academic records are accorded special recognition by the University. A student who has achieved a cumulative grade point average of 4.00 graduates "summa cum laude," one whose cumulative grade point average is less than 4.00 but is 3.80 or above and is in the top five percent of the graduating class graduates "magna cum laude," and one whose cumulative grade point average is between 3.60 and 3.80 and is in the next ten percent of the graduating class graduates "cum laude." These honors are listed on official Cameron University transcripts, and honor graduates are formally recognized at the commencement.

15. **Academic Load.** Academic load includes all courses (concurrent enrollment, day, evening, workshops, off-campus) in which a student is enrolled.
   - The normal academic load for a regular semester is 16 semester hours and for a summer or eight-week session is 8 semester hours.
   - The maximum load that a student will normally be permitted to carry is 18 semester hours during a regular semester or 9 semester hours during a summer or eight-week session.
   - A student who has attained an overall grade point average of 3.00 and has completed a minimum of 15 semester hours will be permitted to enroll in 21 semester hours during a regular semester or 10 semester hours during a summer or eight-week session.
   - All other overloads must be recommended by a student's faculty advisor and approved by the dean of the school responsible for the student's major.
   - The credit hour load that may be approved for a regular semester, summer session, eight-week session, or short course can never exceed one and one-half times the number of weeks in the semester, summer session, eight-week session, or short course.

16. **Full-Time Student.** A student who enrolls in 12 or more hours during a regular semester or 6 or more hours during a summer or eight-week session is classified as a full-time student.

17. **Classification of Students.** Freshmen are those students who have less than 30 semester hours of credit; sophomores, those with 30 or more semester hours, but less than 60; juniors, those with 60 or more semester hours, but less than 90; and seniors, those with 90 or more semester hours who have not received a degree. Students who are non-degree seeking at Cameron University are classified as "special students."

18. **Enrollment.** Students may enroll for courses during designated times which are listed in the **Enrollment Schedule** published each semester and summer session. To receive credit for a course, a student must enroll prior to taking the course.

19. **Late Enrollment.** Enrollment after the first full week of classes in any semester, summer or eight-week session or proportionate period of a special schedule is a late enrollment. Late enrollments require permission from the dean(s) responsible for the course(s) in which a student wishes to enroll. Any student enrolling late will be responsible for making up all work of the classes in which s/he enrolls.

20. **Changing Course Schedules.** Student schedule changes are processed in the Registrar's Office or departmental offices.
   - **Adding Courses.** The first day of the second week of classes of a regular semester, summer or eight-week session or proportionate period of a special schedule is the last day a course may be added.
   - **Dropping Courses.** Courses dropped during the first week of a regular semester, summer or eight-week session or proportionate period of a special schedule, will not be recorded on a student's academic record. Courses dropped after the first week and prior to the end of the twelfth week of a regular semester or proportionate period of other sessions will be recorded on a student's academic record with a course status symbol of "W."

21. **Auditing.** A student may enroll in a credit course as an auditor on a non-credit basis with the permission of the instructor teaching the course. Enrollment is done in the normal manner with the individual responsible for the work expected of regular students and receive no grade or credit for the course. Test participation is the prerogative of the instructor. A student who audits a course agrees that s/he will not petition or ask in any way for the privilege of taking an examination to obtain credit after auditing the course. A student enrolled as an auditor may change the enrollment from audit to a credit enrollment within the first week of a regular semester, summer or eight-week session or proportionate period of a special schedule, with the permission of the instructor. A student enrolled for credit may change the enrollment to audit within the first eight weeks of a regular semester or proportionate period of other sessions only, with the permission of the instructor.

22. **Attendance.** A student is responsible for the content of each course in which s/he is officially enrolled. At the beginning of each course the instructor will define and quantify attendance standards, procedures for verifying unavoidable absences, and methods of dealing with missed assignments and examinations. Instructions for dropping courses without an entry on a student's academic record (see regulation 20) will be stated in writing and distributed to students prior to the end of the period. It is a student's responsibility to note these instructions and follow them consistently and carefully.

23. **Withdrawing from the University.** Non-attendance or ceasing to attend a class does not constitute withdrawing from the University. A student who has completed less than 60% of a semester's work and does not officially withdraw from the University by the published deadline will be recorded with a "W." A student who is required to withdraw from the University under the Student Conduct Code for violating University policy will receive a "W." Students who are administratively or judicially withdrawn from the University must complete all regular semester, summer session, and eight-week session work prior to withdrawing. Students are not permitted to withdraw from a course after the fourteenth week of a regular semester or proportionate period of other sessions. Students who are administratively withdrawn from the University for the violation of the Student Conduct Code will receive a "W." Students who are judicially withdrawn from the University for violation of the Student Conduct Code will receive an "F." Students who withdraw from a course for any reason must complete all regular semester, summer session, and eight-week session work prior to withdrawing.

24. **Prerequisites.** Enrollment in some courses is restricted to students who have taken certain other courses, who have attained a particular class standing, who have obtained the consent of the
27. **Grading System.** Academic performance is evaluated using the marks shown in the following table.

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<tr>
<th>GRADES USED IN CALCULATING GRADE POINT AVERAGE</th>
<th>GRADES NOT USED IN CALCULATING GRADE POINT AVERAGES</th>
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<td>INCOMPLETE</td>
<td>W</td>
<td>WITHDRAWAL</td>
</tr>
<tr>
<td>AW</td>
<td>ADMINISTRATIVE WITHDRAWAL AUDIT</td>
<td>NR</td>
<td>GRADE NOT REPORTED</td>
</tr>
<tr>
<td>X</td>
<td>THESIS IN PROGRESS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**“S” and “U” Grades.** The grades of S (satisfactory) and U (unsatisfactory) may be used in grading certain courses at the discretion of the instructor offering the course, with prior approval of the department chairman. When a course is selected for S-U grading, the entire class must be graded on the same basis. The grade of “S” also will be used to indicate passing in a credit course transferred to Cameron in which no letter grade has been assigned, and to designate awarded advanced standing credits.

**“W” Symbol.** A “W” may be awarded only if the student initiated and completed withdrawal from a course.

**“AW” Symbol.** An “AW” is assigned by the Vice President for Academic Affairs to indicate that the student was administratively withdrawn for disciplinary or financial reasons or inadequate attendance.

**“I” Symbol.** An incomplete may be given (at an instructor's discretion) to a student whose grade average is passing, but who did not complete a course at the end of a term. Students who receive an “I” will have no more than one year from the end of the semester in which the course was taken to complete the required work for the course. The instructor shall record the conditions and time limit for removing the “I” on the grade roster that is filed with the Office of the Registrar.

28. **Changing an “I”.** It is the responsibility of the student to satisfy the requirements specified by the instructor at the time of the assignment of the “I”. It is the responsibility of the instructor to submit a “Grade Correction” form to the Registrar. Students who receive an “I” will have no more than one year from the end of the semester in which the course was taken to complete the required work for the course. During that year, the student is not permitted to re-enroll in the course. If by the end of the year no change in grade has been submitted, the grade of “I” will become permanent. After a grade of “I” has become permanent, a student may re-enroll in the course. In no case will an “I” be changed to a grade of “F” after a student has graduated.

29. **Changing Grades Reported in Error.** The only reason to change a grade is to correct a grade reported in error. The instructor who submitted final grades may make such a change by submitting to the Registrar a “Grade Correction” form signed by his/her chair and dean. In the event of the instructor's absence, death, or disability, the grade may be changed by someone authorized by the President of the University with the advice of the Academic Appeals Committee to act in the instructor's behalf.

30. **Repeating Courses.** Repeating a course does not remove the previous grade from the student’s record. However, repeated course credit hours may not be counted toward graduation requirements unless a course is so identified in the course description.

31. **Scholastic Requirements for Continued Enrollment.**

**Retention Standards.** A retention grade point average of 1.7 or greater during the first 30 attempted semester hours and a retention grade point average of 2.0 or greater after 30 attempted semester hours.

**Good Academic Standing.** A student who meets the University's retention standards is in good academic standing.

**Academic Notice.** Freshmen students, 30 or fewer semester hours, with a retention GPA of 1.7 to less than 2.0 will be placed on academic notice and may be required to participate in special academic support activities as a condition of continued enrollment. Academic notice is not recorded on the transcript.

**Academic Probation.** A student who fails to meet the retention standards will be placed on academic probation and will remain on probation until the applicable retention standard is met or he/she is placed on academic suspension. Students on academic probation may be required to participate in special academic support activities as a condition of continued enrollment. Academic probation is recorded on the transcript.

**Academic Suspension.** Academic suspension will occur at the end of any semester during which a student who is on academic probation fails to meet the applicable retention standard or fails to earn a semester GPA of at least 2.0 in regularly graded work, not to include activity or performance courses. Suspended students may not be reinstated until one regular semester (fall or spring) has elapsed. Academic suspension is recorded on the transcript.

**Suspension of Seniors.** A student with 90 or more semester hours in a specified degree program who has failed to meet the retention standard for continued enrollment and has failed to earn a semester GPA of 2.0, which would allow continued enrollment, may enroll in an additional 15 semester hours in a further attempt to achieve the requirements for retention. A student will be afforded this extension one time only.

**Academic Suspension Appeals and Re-admission.** A student who has been academically suspended from the University for the first time may apply for re-admission after one regular semester (fall or spring) or appeal the suspension and apply for immediate reinstatement with the understanding the reinstatement does not remove the record of suspension.

(1) Appeals of academic suspension due to “extraordinary personal circumstances” will be considered by the Academic Appeals Committee. Students reinstated on this basis will be readmitted on probation and must maintain a 2.0 GPA each semester or summer session while on probation or raise their retention GPA to the retention standard.

(2) Students suspended at the end of a spring semester may appeal to enroll in the summer session. Students in this category are automatically reinstated upon review and approval of a student’s summer enrollment schedule by a designated member or members of the Academic Appeals Committee. Approved summer schedules will be limited to core academic courses that meet general education or degree requirements. To continue in the fall semester these students must make at least a 2.0 GPA in the summer session. Students who do not raise their cumulative GPA to retention standards in the summer session will be enrolled on probation in the fall semester. Students who fail to achieve a 2.0 or higher GPA in the summer session will remain suspended and may not be reinstated until after one regular semester.
Should a reinstated student be suspended a second time, s/he cannot return to the University until such time as s/he has demonstrated, by attending another institution, the ability to succeed academically by raising her/his GPA to retention standards.

Copies of appeals procedures and the conditions and procedures for readmission may be obtained from the Office of Admissions.

32. Transcripts. A student may obtain a copy of his/her transcript from the Office of the Registrar at no charge.

33. Minimum Class Size. The minimum enrollment required to offer a course is as follows: 20 enrollees for a lower division course and 10 enrollees for an upper division course.

34. Substitution and Waiver of Courses. Petitions to substitute or waive courses that are designated as necessary to fulfill general education requirements must be approved by the Vice President for Academic Affairs. The dean of the school offering the major or minor is ultimately responsible for approving course substitutions and waivers for major or minor program requirements. This responsibility may be assigned to department chairs or faculty members under the supervision of the dean. Approved substitutions or waivers of major or minor requirements must be documented (by signature and date) on the degree requirements check sheet which is forwarded to the Registrar's office during the degree check and graduation application process. Permission for any other exception to stated requirements must be initiated through the dean responsible for the student's major program and approved by the Vice President for Academic Affairs.

35. Advanced Standing Credit. Extramural learning is defined as learning that is attained outside the sponsorship of accredited postsecondary institutions. Cameron awards advanced standing credit for Extramural learning under policies and procedures designed to assure that reliable and valid measures of learning outcomes are or have been applied. A maximum of 64 semester hours of credit earned by advanced standing may be applied toward the requirements for a baccalaureate degree, and a maximum of 45 semester hours of credit earned by advanced standing may be applied toward the requirements for an associate degree. Advanced Standing Credit may only be awarded in those academic disciplines taught at Cameron University, and must be validated by successful completion of 12 or more semester hours of academic work at Cameron before being placed on the student's transcript. Active duty military personnel are exempt from the 12 hour validation requirements, and may have advanced credits placed on the transcript upon completion of one enrollment. The neutral grade of satisfactory (S) will be utilized to award Advanced Standing Credit. Credit recorded at an institution in the Oklahoma State System of Higher Education, is transferable on the same basis as if the credit had been earned through regular study at the awarding institution. Information about the policy, procedures, costs and various methods for receiving Advanced Standing Credit may be obtained from the University Testing Center.

36. Honors Courses. Academically talented students and those with superior preparation and strong motivation can find challenging and rewarding honors experiences in honors courses at Cameron University. Such courses are taught in a number of departments. The Honors Program also circulates full listings of honors offerings prior to the enrollment period for each semester. Honors courses are discussion-oriented and are augmented by features such as field trips, guest lectures, and technological enhancements. Core honors program courses are taught and offer an interdisciplinary approach to the subject matter. The aim of these courses is to carry well-prepared, motivated students deeper into the material of the course. All honors courses are designated as such on the transcript.

37. Academic Advisors. Cameron students pursuing an associate or baccalaureate degree will be assigned an academic advisor for assistance in course selection, exploration of college majors and careers, and planning of programs of study to achieve educational goals.

38. Academic Forgiveness Policy. The policy provides a means for classifying courses as either "rerieved", "renewed", or "forgiven" and for excluding them from retention/graduation grade point average calculation. A copy of the policy may be obtained from the Registrar's Office.

Forgiven Course. A course in which a student made a "D" or "F" and subsequently repeated, which has been approved for exclusion from retention/graduation grade point average calculation under the provisions of the Forgiveness Policy.

Reprieved Course. A course taken during a semester for which academic reprise has been granted under the provisions of the Forgiveness Policy.

39. Remedial/Developmental Course. A course to prepare students for college level work. The course cannot be used to meet degree requirements.

40. Academic Transcript. A full and accurate accounting of the facts of a student's academic life. All courses, including those classified as remedial/developmental, reprieved, and forgiven, are recorded on the academic transcript.

41. Appeal of Final Grade. The only basis for a formal appeal of a final grade is whether the student's final grade was assigned fairly within the grading system adopted by the faculty member. The Grade Appeal Policy is published in the Student Policies Handbook and the Faculty Handbook. A formal request for appeal of a final grade must be filed prior to the end of the first regular semester following the semester during which the course was taken.

42. The Dean's and President's List. The Dean's List, published each semester, includes all full-time Cameron University students whose semester grade point average is 3.0 or better; while only those full-time students earning a 4.0 grade point average are on the President's List.
STUDENT PROGRAMS AND SERVICES

A variety of University programs and services provide assistance to students. These programs and services are described in the following sections.

Admissions Recruiters

Admissions Recruiters maintain contact with area schools and residents to inform them of the educational opportunities that exist at Cameron University. The office is responsible for the University’s recruiting program. Campus tours may be arranged through this office. This office provides scholarship applications and related information. The deadline for applications is February 1.

Orientation

All students entering Cameron with less than 15 earned semester credit hours and who are seeking a degree at Cameron University are required to attend an orientation session. The orientation introduces the student to the campus and provides information about resources, services, and activities. Contact the Office of Admissions (581-2230) to register for an orientation or to request additional information.

Office of Financial Assistance

The office of Student Financial Assistance provides financial counseling, administers scholarships, grants, loans and student employment. Interested students should reference the Financial Information section of this catalog. Students can also contact the Financial Assistance Office (581-2293) for further information on application procedures or access Cameron’s website at www.cameron.edu/financial_aid/.

On-Campus Housing

Living on campus provides the opportunity for involvement within a living-learning community of like-minded students. Cameron University provides two great options for on-campus living – Cameron Village and Shepler Center. Cameron Village combines all the amenities of an apartment complex with the convenience of on-campus living. Shepler Center, comprised of two ten-story high-rises, provides Cameron students with a more traditional living-learning environment.

Multicultural Services

The Student Development Office works to establish and implement campus programs which heighten awareness and support the diversity of students on the Cameron campus. The office also works closely with cultural student organizations that encourage students to celebrate their culture or heritage. For additional information, please call 581-2209.

Disability Services

Cameron University recognizes that all students deserve an equal opportunity to participate in university life and attain a higher education. The Student Development Office coordinates accommodations for students with disabilities and develops programs to support disability awareness. If an accommodation on the basis of a disability is required, please contact the office at least four weeks before classes begin or as soon as possible to complete the required documentation for accommodations. Please contact the office immediately if you have any concerns or problems with an accommodation. For more information, please call 581-2209.

Testing Center

The Testing Center is responsible for coordinating, administering, and scoring a wide range of national, international, and local tests for the CU community and the general public. Tests offered include: National and Residual ACT (American College Test), CLEP (College-Level Examination Program), DANTES (Defense Activity for Non-Traditional Education Support), GRE (Graduate Record Exam), General and Subject Tests, LSAT (Law School Admissions Test), MAT (Miller Analogies Test), PRAXIS (Professional Assessment for Beginning Teachers), SAT (Scholastic Aptitude Test), and the Institutional and National TOEFL (Test of English as a Foreign Language).

Additionally, the Testing Center administers computerized placement tests (CPT) for English, reading, and math for admission to Cameron, provides opportunities for gaining credit for certain college courses at Cameron and other universities, and furnishes proctors for both computer-based and paper-based tests for Cameron and other universities. The Testing Center is equipped to handle all testing needs by providing careful and precise test administrations, adhering to high test security standards, and providing a low-distraction, quiet, clean, and comfortable testing environment. For more information, contact the Testing Center in room 316, South Shepler, 581-2502/2212, or testingcenter@cameron.edu.

Career Services

The Student Development Office assists students in achieving their career goals. Career planning is provided to students in a variety of formats to include online job posting, College Central Network; an online self-assessment program, DISCOVER; and programs to assist in developing a resume, cover letter and interviewing skills.

Trio Programs

Cameron University hosts three TRIO programs that are funded under the Higher Education Act. Known as TRIO Programs, they provide a comprehensive array of information, counseling, academic instruction and support services to at risk students in junior high, high school, and college.

Student Support Services

A part of the Cameron campus since 1987, Student Support Services offers academic advisement, enrollment, peer mentoring, tutoring, financial aid information, special classes and a variety of enrichment workshops and cultural activities to Cameron participants. Participation in Student Support Services provides personal and academic enrichment for students who may face economic, social, and cultural barriers to higher education.

Applicants to the program must meet at least one of the following criteria:

- Be a first generation member of their family to pursue and receive a four-year degree.
- Meet federal guidelines for having an economic need.
- Have a documented learning or physical disability.

For more information, contact the Student Support Services Office in room 431 North Shepler, 581-2352.

Open Doors

Open Doors (known nationally as Talent Search) is an outreach program of information, educational guidance counseling, and support for 775 Lawton Public School low-income secondary students, high school dropouts, and high school graduates. Offices opened for this community outreach project in 1991.

More information is available in room 408 North Shepler, 581-5581.
**Upward Bound**

Upward Bound was established on campus in 1992 to provide rigorous academic instruction, individual mentoring and personal, career, and academic counseling for 50 low-income, disadvantaged Lawton Public School, college-bound, high school students. The program was expanded in 2000 to include 10 students from Geronimo High School.

For more information, contact Upward Bound in room 408 North Shepler, 581-5581.

**Academic Support Services**

*The Reading Center.* Located in the north wing of Nance-Boyer Hall, the Reading Center provides assistance to students in improving skills of comprehension, vocabulary, study skills and reading rate. A service of the Department of Education, the Reading Center is staffed by specialists who are experienced in assessing and improving reading and study skills. A student visiting the Reading Center is tested to determine the materials best suited to the identified problems and is given a program of individualized instruction designed to strengthen reading and/or study skills.

*The Language Learning Center.* The Language Learning Center is located on the second floor of Nance Boyer Hall in Room 200. The laboratory has eight computerized listening/respond/record stations, two video stations, and three additional computer workstations, and is staffed by a full-time lab director. Although the laboratory is primarily for the use of students enrolled in foreign language classes, other students may also use the tape, CD, and video programs available in more than thirty-six foreign languages.

*Fine Arts Computer Laboratory.* The Fine Arts Laboratory is located in Room 139 of the Music Building. The lab consists of the music library and a computer laboratory. Cameron University Library’s collection of recordings and musical scores is housed here, and the lab contains stations available for listening. The remainder of this facility is devoted to computer work stations and various peripherals.

*Center for Writers.* The Center for Writers is located on the second floor of the School of Business, Room 100. The center is open to all Cameron students, offering assistance for writing assignments of any kind, including course papers and applications for scholarships, awards, and graduate and professional schools. The Center for Writers provides individual tutorial help, assistance with word processing, and access to software and printed material addressing critical-thinking skills, usage, grammar, vocabulary, documentation of research, development of personal style, and all stages of the writing process from pre-writing through final draft. Computers are available for students to access the Internet and e-mail accounts and to do word processing. Additionally, educational CD ROMs are available.

*The Mathematics Tutorial Laboratory.* The Mathematics Tutorial Laboratory is located in Burch Hall. The Mathematics Tutorial Laboratory is available to students who are enrolled in lower level mathematics classes through MATH 2713 (Elementary Calculus). The lab is staffed by undergraduate students under the supervision of the Math Lab Director. While students may obtain assistance on a walk-in basis, it is recommended that they call for an appointment (581-2484). The informal atmosphere of the lab allows the students to work on homework assignments alone or with classmates and have immediate assistance available from the math tutors on duty. There is a library of math textbooks which may be checked out by students. Students are also encouraged to make use of four VCR units. A large selection of taped lectures and reviews covering topics in algebra and calculus is available for student use. Some of the tapes available accompany the current textbooks. Tapes may be viewed in the lab or checked out for short periods of time for use at home. Participation by students is strictly voluntary and may be on an irregular, drop-in basis or appointments can be made for a specific time.

The Business Computer Laboratory. The Business Laboratory is located on the first floor of the School of Business, Room 100. An additional Accounting Laboratory is located on the second floor, Room 224. The laboratory is staffed by a graduate assistant with specialized expertise in various areas of business, including accounting, economics, finance, statistics, and marketing. The lab is open to all students with questions in business disciplines. The lab is equipped with personal computers, specialized software, calculators, and programmed learning materials. The emphasis is on individual assistance, but special review sessions and other group activities may be scheduled. Participation is voluntary and the laboratory is available 40 or more hours per week at times to accommodate both day and evening students.

The Academic Information Technology (IT) Center. The IT Center, located in Room 104 of Burch Hall, is an open lab intended to serve the computing needs of students and faculty. The resources are available on a first-come, first-served basis at the convenience of the users. All users must be able to justify their utilization of the lab. The Center also proctors for on-line testing. The Center is generally open 90 hours per week during the fall and spring semesters, and 79 hours during the summer semester.

**Library**

http://www.cameron.edu/library

Administration: 581-2403  Reference: 581-2957
Circulation: 581-2955/2956  Interlibrary Loan: 581-2382

Cameron University Library promotes scholarly inquiry and work by providing materials and services associated with the access and use of information. The library houses over 250,000 volumes of information, comfortable work areas, a fully-equipped computer lab, and a group of friendly staff members trained to assist Cameron University students and faculty and staff members with their library needs. Online services facilitate access to the physical collection and to a wealth of electronic information.

**Research**

With the aim to support the teaching mission at Cameron University, research and scholarship at Cameron University are undertaken by faculty and students using a broad range of approaches. The quest for new knowledge, synthesis of existing information, and application of knowledge are shared experiences within the University community. In keeping with the institutional purpose of providing education through community service, research at Cameron is typically applied in nature. Students are afforded the opportunity to work on real world problems of relevance to the broader community of which the University is a constituent, under the mentorship of caring and highly qualified faculty.

As a part of the research support system, Cameron has established the Cameron Scholarly Research Project Grant Program to encourage faculty, staff, and students in completing scholarly projects in the areas of discovery, integration, application, and teaching. In addition, the Academic Research Support Center provides resources and opportunities for faculty, staff, and students in conducting basic and applied research in support of their academic pursuits and to enhance the reputation of Cameron University. Particularly, the center strives to support all aspects of the proposal development process and to serve as a liaison between external funding agencies as well as internal departments including Payroll, the Vice President for Academic Affairs and the Office of the President. The major services provided include the identification of grant opportunities to support grant activities at Cameron University, assist faculty and staff in the development and submission of internal and external grant applications, track Institutional Review Board and Human Subjects Training submissions, and support undergraduate students in their pursuit of practical research experiences.
**Student Government**

The Student Government is the governing body representing all Cameron University students. This organization, comprised of Senators from the academic departments and representatives from the student organizations, is presided over by a student-elected president. The purpose of the Student Government is to promote the interests and welfare of the student body.

**Student and Departmental Organizations**

By participating in departmental clubs, honor societies, and special interest organizations, students develop life skills by utilizing them at the University, and in the community, enriching their college experience. Information about membership in student organizations is available in the Office of Student Activities located in the Student Activities Building, 581-2217.

**Cultural Programs**

A wide range of cultural events are presented each year by the various departments and special committees on campus.

The Lecture and Concerts Committee sponsors both popular and classical musical concerts while also bringing to campus a number of eminent speakers on many subjects, from politics to science.

The School of Liberal Arts offers a variety of arts activities and opportunities, which are open to all Cameron students regardless of major. The Art Department sponsors frequent student gallery shows as well as workshops and exhibits by well-known visiting professionals. Cameron’s award-winning Speech and Debate Team competes at the national level. Student musicians can choose from a wide array of instrumental ensembles and choirs. The Department of Music and Theatre Arts also produces annual operas and musicals. Plays are offered yearly in Cameron’s two theatres.

The Office of Student Activities brings prominent artists, programs, and seminars to the campus to provide a wide range of social and cultural events to Cameron University students, faculty, and staff.

**Intercollegiate Athletics**

The Athletics Department is supervised by the Director of Athletics. The Intercollegiate Athletic Committee, a secondary committee of the Institutional Services Committee, serves in an advisory capacity to the Athletic Director.

Cameron University competes at the National Collegiate Athletic Association (NCAA), Division II level. Its teams are consistently ranked among the best and compete successfully against top teams in the nation.

The present program includes the men’s sports of basketball, baseball, cross country, golf and tennis, and the women’s sports of basketball, golf, softball, tennis and volleyball. Cheerleading and Sports Medicine are also included within the Athletic Department. Scholarships are available in each of these sports/areas. Information can be obtained by writing to the Athletic Director, who will forward inquires to the appropriate head coach.

**Intramurals**

Cameron University, through the Athletics Department, offers an extensive intramural program. Activities include basketball, softball, golf, soccer, flag football, racquetball, badminton, tennis, dodgeball, bowling, and volleyball. During the year, other sports may be offered depending upon student demand and availability of facilities and supervisory help.

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**Honor Societies**

Cameron University currently has 20 nationally and internationally recognized honor and professional societies which elect members based on scholastic achievement. The two University-wide honor societies are:

- Phi Kappa Phi, recognizing outstanding juniors, seniors, and graduate students from all disciplines, and
- Phi Eta Sigma, a national college scholastic honor society for freshmen.

For information on Cameron honor societies acknowledging outstanding achievement in specific disciplines, please contact the Honors Program, 581-2328.

**Student Activities**

Cameron University recognizes the importance of co-curricular activities and the role they play in the college experience. The Office of Student Activities strives to provide a variety of activities and engage students in campus life.

Cameron recognizes over 70 student organizations with varying interests. The focus of the groups range from academic to social and from religious to political. If a student is interested in joining or starting a group, contact the Student Activities Office for assistance.

**Student Activity Facilities**

The Student Activities Building, located on University Drive, is the seat of all campus activities and houses the offices of the Programming Activities Council and the Student Government Association. The Director of Student Activities, Office of Student Activities, and the Student Activities Lounge are also located in the building. The Student Activities Lounge provides students with a relaxed atmosphere in which they can study, watch TV, or play video games. Computers are available for e-mail and Internet access. If special assistance is required while in the Student Activities Building, call 581-2217.

The McMahon Center, which opened in 2005, includes a great room with a pool table, television, piano and fireplace, as well as a library, classroom and 24 hour resident computer lab. The McMahon Center also houses the Office of Residence Life and a faculty-in-residence.

Cameron Stadium is a bowl type modern football field, with artificial turf and with a seating capacity of approximately 10,000. The stadium is complete with concession facilities, press box, dressing rooms and ample parking. McCord Field is a baseball park complete with concession facilities, press box and ample parking. It has a seating capacity of approximately 1,000.

The Cameron gymnasium has a seating capacity of approximately 1,600. The building is complete with dressing facilities and four all-purpose classrooms.

The tennis courts are among the finest tennis facilities in the area, with eight pro surface courts and tennis dressing areas.

The Cameron Fitness Center is a 40,000 sq. ft. facility which has a gym for basketball, volleyball and other team activities, four racquetball courts, strength and cardio equipment, aerobic activities, running track, and a 25 yard indoor swimming pool. All areas are handicap accessible.

Accommodations on the basis of disability at any campus facility are available by contacting the Office of Student Development at 580-581-2209, North Shepler Room 314, or by e-mail at student_development@cameron.edu.

**Programming Activities Council**

The mission of the Programming Activities Council (PAC) is to improve the quality of activities and gain student input into the planning of programs, entertainment and activities. PAC provides activities such as comedians, hypnotists, concerts, and trips for the University. Major events for the entire campus are coordinated and implemented by the Council. For a complete list of activities sponsored by PAC, go to www.cameron.edu/PAC or call 581-2217 for more information.
Religious Organizations

Cameron University is a state-supported, non-sectarian institution, but it recognizes the importance of spiritual life and cooperates with many off-campus groups that fulfill the religious needs of the community. Several recognized student organizations are affiliated with denominational student centers. Each of these centers conducts student programs under the direction of professionally trained staff.

Who’s Who Among Students in American Universities and Colleges

Special University recognition is given each year to junior and senior students who are chosen for this prestigious honor. Totaling approximately one percent of the student body, these recipients are selected on the criteria of outstanding scholarship, leadership, citizenship and potential by a committee representing students, faculty, and staff.

Student Publications

The University Newspaper

Founded in 1926, The Collegian is the official student newspaper of Cameron University. The Collegian is written, designed, edited, and produced by student editors for the students, faculty, staff, and administration of the university. The Collegian serves both as a voice for the students of the university, and as a training ground for student journalists to hone the skills they develop in their courses. Located in Nance Boyer 2060, The Collegian offices house all of the equipment and materials utilized during the production of the paper. Once the final product is ready to print, pages are sent digitally to an off-campus press. Students deliver papers across the campus and local communities on Mondays. The Collegian is a member of the Oklahoma Collegiate Press Association, Columbia Scholastic Press Association, the Society of Professional Journalists and the Oklahoma Interscholastic Press Association.

The Oklahoma Review

The Oklahoma Review is an international online literary magazine edited by Cameron University students under the guidance of faculty from the English program. The magazine publishes fiction, poetry, creative nonfiction, interviews, and book reviews by writers from all over the world who are working in English.

KCCU Radio

KCCU FM is the National Public Radio voice of Cameron University. The station serves several communities from our studios on the Cameron campus. The following communities are served on these frequencies: KCCU Lawton broadcast on 89.3 FM and 102.9 FM, KLCU Ardmore broadcast on 90.3 FM, KCCU Chickasha on 100.1 FM, KOCU Altus broadcast on 90.1 FM, KMCU in Wichita Falls, Texas broadcast on 88.7 FM and KYCU in Western Oklahoma broadcast on 89.1 FM. These stations provide public radio service to a large section of southwest, south central Oklahoma and north Texas. The station programs NPR news, local news, classical music, jazz and other special programming. KCCU is operated by a professional staff with the assistance of students enrolled in communication courses and other majors across campus. Students may work at the station by enrolling in various communication courses or by volunteering. Some paid positions are available. KCCU has expanded the community service efforts of Cameron University. KCCU is supported by individual members, local businesses and area foundations.

CUTV

CUTV is a closed circuit television channel broadcasting to monitors located across campus on Channel 11. CUTV channel features a bulletin board of daily activities and events of interest to students, faculty and staff members. The Communication Department produces a weekly news program featuring campus events. Communication students also produce a weekly student government report, a news brief and a feature program focusing on major campus events and campus leaders.

Student Handbook

The Student Handbook is an official publication of the University which explains University policies and procedures and provides University information for all aspects of University life. Students are responsible for knowing its contents. Copies are available in the Office of the Dean of Student Services and online at www.cameron.edu/studentservices/handbook.

Student Conduct

Rules and regulations for the conduct of students attending Cameron University are listed in the Student Handbook. A primary purpose of these regulations is to help maintain a safe learning environment for members of the academic community. Student violations of these rules and regulations are reviewed by administrative officers having disciplinary responsibilities. The decisions made by these officers are subject to an appeal, either administratively or by proper referral to an appropriate judicial committee. When a student is suspended or dismissed for disciplinary reasons, the grades recorded for the student for that semester shall be determined in the same way as if the student had withdrawn voluntarily and any refund of fees shall be determined by the regular refund policy.

Access to Student Records

Student records are filed in a variety of offices as listed in the Student Handbook. The administrative officers are responsible for the records under their control and for the appropriate release of information contained in these records. Cameron University forwards educational records on request to other educational institutions in which a student seeks or intends to enroll without providing any further notice to the individual regarding the transfer of records.

Release of Student Information. Student records are confidential in the sense that the information contained in these records is given voluntarily by the student for the private use of the institution for educational purposes only. The information contained in student records is of two different types:

Directory Information. This information may be freely released by University officials without the consent of the student. Upon written request by the student, this information will be treated as confidential and released only with the student’s written consent. Forms for withholding student “directory information” are available in the Office of the Registrar. This information consists of:

<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees and awards received</th>
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</thead>
<tbody>
<tr>
<td>Address</td>
<td>Dates of attendance</td>
</tr>
<tr>
<td>Telephone number</td>
<td>Date of graduation</td>
</tr>
<tr>
<td>Enrollment status</td>
<td>Date of birth</td>
</tr>
<tr>
<td>Athletic program information</td>
<td>Place of birth</td>
</tr>
</tbody>
</table>

Previous institution most recently attended and other similar information as permitted in the Family Education Rights and Privacy Act (FERPA) (Pub. L. 93-568, Sec. 99.3).
Students can shop the Cameron Bookstore on-line as well, in one of three ways: www.cameron.bkstr.com, through a link on the university website or go to efollett.com, choose the state and then click on Cameron.

The Cameron University Post Office is located in the Davis Memorial Student Union inside the Bookstore. Patrons can purchase postage here as well as money orders and post outgoing mail and packages.

**Cashiers and “One Stop”**

Cashiers for Cameron University are located on the first floor of the Administration Building and at “One-Stop” located on the first floor of North Shepler.

The cashiers in the Administration Building are responsible for releasing to students all financial assistance checks, such as loans, grants, scholarships and work study, as well as accepting payments for charges incurred at the University.

“One-Stop” provides a convenient, second location for students, faculty and staff to make payments for charges incurred at the University. Parking permits and Cameron University ID cards are available at “One Stop.”

Both areas accept credit card payments using MasterCard, Visa and Discover.

**Health Care And Insurance**

Cameron provides no on-campus medical services, but has chosen to make arrangements with several entities to secure access for Cameron students to top quality outpatient clinical services at discounted prices. The university has partnered with the Southwest Oklahoma Family Medicine Clinic to provide primary healthcare services to Cameron students. The clinic is located at 1202 NW Arlington. Walk-ins are welcome or students can make an appointment by calling (580) 248-2288, extension 10 or 11. In addition, Cameron students may use the AM-PM Clinic at 4411 West Gore Boulevard for minor illnesses and injuries and other non-emergency outpatient clinical services during regular business hours. Cameron students will be provided access to Memorial's 24-hour, professionally-staffed, fully-equipped emergency room at Memorial's primary location adjacent to the Cameron campus at 3401 West Gore Boulevard for bona fide emergencies and injuries or illnesses which occur outside regular business hours.

The University recommends that all students acquire some form of health insurance to meet unexpected medical needs. The university is pleased to offer a health insurance option to Cameron University students who do not have health insurance through other means. Through Academic Health Plans, www.ahpcare.com/cameron, students who are taking six or more credit hours may enroll in a Cameron Student Health Insurance Plan through Academic Health Plans. For information about this requirement or to request a waiver, please contact Marcella Gustafson at 591-8019.

For additional information about these health benefits, contact the Student Development Office at 581-2209.

**R.O.T.C. Medical Eligibility** – Satisfactory completion of a physical examination is required prior to participation in the advanced Military Science Program.
Cameron University Alumni Association

The purpose of the Association is to cooperate with and assist in the promotion of the goals and purposes of Cameron University, and to encourage a continuing and increasing interest in the University among graduates, former students and friends through information, education and service. Projects include reunions, alumni and faculty awards. A benefit golf tournament and a membership drive support scholarships and various other campus activities. Membership is open to anyone interested in supporting the Association. Further information may be obtained by contacting the Cameron University Alumni Association, Office of Alumni Relations, 2800 West Gore Boulevard, Lawton, Oklahoma 73505; by telephone at 580-581-2988; or on the web at http://www.cameron.edu/alumni.

Student Services Counseling Center

The Student Counselor is available to meet with students who may be having problems achieving their educational goals. The Student Counselor is available to meet confidentially to discuss concerns and may be able to refer students to on and off campus resources that can further help the student overcome difficulties and increase his or her ability to focus on learning.
GENERAL EDUCATION REQUIREMENTS

BACCALAUREATE DEGREE (50 Hours)

COMMUNICATION ............................................................... 9 hours
(a) ENGL 1113 (b) ENGL 1213 (c) COMM 1113
NOTE: English courses numbered lower than 1113 do not apply toward degree requirements.

MATHEMATICS ................................................................. 3 hours
Select one of the following: MATH 1513, MATH 1613, MATH 1715, MATH 1813, MATH 2215, MATH 2713. Some major programs specify the course to be selected. Refer to the major to determine which course is specified.
NOTE: Mathematics courses numbered lower than 1513 do not apply toward degree requirements.

SCIENCE ........................................................................ 8-10 hours
(a) BIOL 1004, BIOL 1114 or BIOL 1364
(b) ESCI 1135 or CHEM 1004 or CHEM 1364/1361 or CHEM 1474/1471 or PHYS 1004 or PHYS 1115 or GEOL 1014 or PSCI 1055 or ASTR 1104.
One course must be a laboratory science.

AMERICAN HISTORY AND POLITICAL SCIENCE ....................... 6 hours
(a) HIST 1483 or HIST 1493 (b) PS 1113

HUMANITIES ...................................................................... 6 hours
To be selected from the following with no more than one course from the discipline in which the student is majoring:
(a) Interdisciplinary Humanities Courses: HUM 2513
(b) ART 1013, ART 2613, ART 2623
(c) THTR 1103, FNAR 1013
(d) ENGL 2013, ENGL 2053, ENGL 2313, ENGL 2323, ENGL 2343
(e) ARBC 1113, ARBC 1223, CHNS 1113, CHNS 1223, FREN 1113, FREN 1223, FREN 2113, FREN 2223, GERM 1113, GERM 1223, GERM 2113, GERM 2123, ITAL 1113, ITAL 1223, LATN 1113, LATN 1223, LATN 2113, LATN 2223, PRSN 1113, PRSN 1223, RUSN 1113, RUSN 1223, SPAN 1113, SPAN 1223, SPAN 2113, SPAN 2223, SWLI 1113, SWLI 1223
(f) HIST 1113, HIST 1123, HIST 2113, HIST 2223, HIST 3143, HIST 3553
(g) MUSC 1013, MUSC 1023, MUSC 1033, MUSC 1413
(h) PHIL 1113, PHIL 2213
(i) HON 2113, HON 2123

BEHAVIORAL SCIENCE .......................................................... 3 hours
Select one from the following: FAMS 1123, PSY 1113, SOCI 1113

ECONOMICS ..................................................................... 3 hours
Select one from the following: AGRC 1334, ECON 2013, GEOG 3023, CRM 3603

PHYSICAL EDUCATION ACTIVITY* ................................... 4 hours
(a) Any physical education activity course(s) or HLTH 1012
(b) Intramural sports (not to exceed 1 course)
(c) Intercollegiate athletics (not to exceed 1 course)
(d) Any of the following Military Science courses: MSL 1012, MSL 1022, MSL 2012, MSL 2022, MSL 3013, MSL 3023, MSL 4013, MSL 4023
(Each of which will satisfy one hour of the Physical Education activity requirement)
*Not required if student:
(a) is 30 years of age or older, or
(b) is recommended by a medical doctor for waiver of the requirement, or
(c) is awarded credit based on one year of active full-time military service

ELECTIVES SUFFICIENT TO TOTAL 50 SEMESTER HOURS
But with no more than 6 hours of these electives in any one department.
ASSOCIATE DEGREE

Eighteen (18) hours of General Education are required of each person who receives an Associate in Applied Science Degree from Cameron University. The Associate of Science Degree requires students to complete the same General Education program as Baccalaureate Degree students at Cameron University, except for Physical Education Activity and Electives (38 to 40 hours).

COMPUTER LITERACY

All undergraduate degree programs require students to achieve some level of computer literacy. The means by which students acquire or demonstrate such literacy varies among the programs, but acceptable means include (1) successfully completing a high school computer science course that meets State Regents’ high school curricular requirements, or (2) satisfactorily completing a computer literacy assessment; or (3) successfully completing courses designated as program requirements.
The mission of the Cameron University School of Business is to provide quality education designed to produce skilled business leaders, to promote ethical practices, and to foster economic development in a dynamic global environment. The mission is based upon a dedication to continuous improvement, scholarly activity, and service.
The School of Business offers programs leading to an Associate of Science in Business degree, a Bachelor of Accounting degree, and a Bachelor of Business Administration degree with a specialization in one of the following: Management, Marketing, Finance, Economics, and General Business Administration. Academic advisement and enrollment are provided by the Undergraduate Business Counselor in the school. The School also offers a Master of Business Administration and a Master of Science in Entrepreneurial Studies degree. Refer to Graduate Catalog for details.

**BACHELOR OF ACCOUNTING DEGREE (305)**

I. GENERAL EDUCATION REQUIREMENTS ........................................... 50 hours

General Education requirements are found on the red striped pages.

Students who major in Accounting are encouraged to select their elective hours in general education from courses outside the School of Business.

All accounting majors are required to complete MATH 2713, Elementary Calculus.

II. MAJOR .................................................................................................. 57 hours

Core Courses ................................................................. 33 hours

ACCT 2013, ACCT 2023, ECON 2023, MGMT 3013, MIS 3013, BUS 3113,
BUS 3213, MKTG 3413, FIN 3603, BUS 3613, BUS 4633

Specialization (Upper Division Accounting) ......................... 24 hours

ACCT 3013, ACCT 3023, ACCT 3133, ACCT 4013, ACCT 4213,
ACCT 4513 ................................................................................... 18 hours

Upper-Division Accounting Electives .................. 6 hours

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

**ACCOUNTING COURSES (ACCT)**

2013* PRINCIPLES OF FINANCIAL ACCOUNTING, 3 hours credit

Basic principles of financial accounting, including how to record transactions, prepare financial statements, analyze selected accounts and use accounting information in decision-making. Lecture 3 hours. Prerequisite: sophomore standing or advisor consent.

2023* PRINCIPLES OF COST/MANAGERIAL ACCOUNTING, 3 hours credit

Basic principles of cost accounting related to manufacturing and other enterprises. Use of management and cost accounting information in decision-making. Lecture 3 hours. Prerequisite: ACCT 2013.

3013 INTERMEDIATE ACCOUNTING I, 3 hours credit

A review of the fundamental processes of accounting with an emphasis on the basic accounting process, procedures and working papers, statements, cash receivables, liabilities, and inventory pricing and planning. Lecture 3 hours. Prerequisite: ACCT 2023.

3023 INTERMEDIATE ACCOUNTING II, 3 hours credit

Continuation of Intermediate 3013, with emphasis on corporation capital stock, retained earnings, dividends, income taxes, and analysis and interpretation of accounting data. Lecture 3 hours. Prerequisite: ACCT 3013.

3133 COST ACCOUNTING, 3 hours credit


3213 MANAGERIAL ACCOUNTING, 3 hours credit


3313 GOVERNMENTAL ACCOUNTING, 3 hours credit

Accounting for governmental and non-profit entities. Analysis of budget systems, the use of funds, internal and external reporting requirements, and governmental accounting terminology. Lecture 3 hours. Prerequisite: ACCT 2023.

3413 PETROLEUM ACCOUNTING, 3 hours credit

Financial accounting principles, policies, practices, and procedures used by oil and gas producers. Lecture 3 hours. Prerequisite: ACCT 2023.

4013 INDIVIDUAL INCOME TAX, 3 hours credit

Federal income taxation of individuals; current tax laws and tax return preparation. Lecture 3 hours. Prerequisite: 12 hours of accounting.

4023 CORPORATE INCOME TAX, 3 hours credit

Federal taxation of partnerships and corporations; gift and estate taxes. Lecture 3 hours. Prerequisite: ACCT 4013.

4113 ADVANCED ACCOUNTING, 3 hours credit

Accounting for business combinations, multinational operations, partnerships and insolvent organizations; interim and segmental reporting. Lecture 3 hours. Prerequisite: ACCT 3023.

4133 ADVANCED ACCOUNTING, 3 hours credit

Accounting for business combinations, multinational operations, partnerships and insolvent organizations; interim and segmental reporting. Lecture 3 hours. Prerequisite: ACCT 3023.

4213 AUDITING, 3 hours credit

Generally accepted auditing standards as they apply to different types of businesses. Audit techniques, reporting standards, the code of professional conduct and auditor’s responsibility. Lecture 3 hours. Prerequisite: 18 hours of accounting.

4413 C.P.A. PROBLEMS, 3 hours credit

An overview of accounting practice and theory based on current Financial Accounting Standards Board regulations. Lecture 3 hours. Prerequisite: 21 hours of Accounting including ACCT 4113.

4471-3 SEMINAR IN ACCOUNTING, 1-3 hours credit

Seminar presentation and special studies in topics of current interest to the accounting professional. Permission of the Chair.

4483 ACCOUNTING INTERNSHIP, 3 hours credit

Supervised work experience in an accounting section of a corporate or other business setting. The internship will allow students to encounter practical workplace problems in accounting and gain experience in working in a professional setting. May be repeated for a maximum of 6 hours, but repeat must be with a different business. A minimum of 150 hours of on-the-job training is required to complete the course. Prerequisite: department permission.
ASSOCIATE OF SCIENCE IN BUSINESS (505)

I. GENERAL EDUCATION REQUIREMENTS .................................................. 38 hours

COMMUNICATION ................................................................. 9 hours
(a) ENGL 1113 (b) ENGL 1213 (c) COMM 1113
NOTE: English courses numbered lower than 1113 do not apply toward degree requirements.

MATHEMATICS ............................................................... 3 hours
Select one of the following: MATH 1513, MATH 1613, MATH 1715, MATH 1813, MATH 2215, MATH 1713. Some
major programs specify the course to be selected.
Refer to the major to determine which course is specified.
NOTE: Mathematics courses numbered lower than 1513 do not apply toward degree requirements.

SCIENCE ................................................................. 8-10 hours
(a) BIOL 1005 or BIOL 1364
(b) ESCI 1135 or CHEM 1004 or CHEM 1364/1361 or CHEM 1474/1471 or PHYS 1004 or PHYS 1115 or GEOL 1014
or PSCI 1055 or ASTR 1104
One course must be a laboratory science.

AMERICAN HISTORY AND POLITICAL SCIENCE ......................... 6 hours
(a) HIST 1483 or HIST 1493 (b) PS 1113

HUMANITIES .............................................................. 6 hours
To be selected from the following with no more than one course from the discipline in which the student is majoring.
(a) Interdisciplinary Humanities Courses: HUM 2113, HUM 2223, HUM 2513
(b) ART 1013, ART 2613, ART 2623
(c) THTR 1103, FNAR 1013
(d) ENGL 2013, ENGL 2053, ENGL 2243
(e) FREN 1113, FREN 1223, FREN 2113, FREN 2223, GERM 1113, GERM 2113, GERM 2213, ITAL 1113, ITAL 1223, LATN 1113, LATN 1223, LATN 2113, LATN 2223, SPAN 1113, SPAN 1223, SPAN 2113, SPAN 2223,
(f) HIST 1113, HIST 1123, HIST 2143, HIST 3353
(g) MUSC 1013, MUSC 1023, MUSC 1413
(h) PHIL 1113, PHIL 2213

BEHAVIORAL SCIENCE .................................................. 3 hours
Select one from the following: FAMS 1123, PSY 1113, SOCI 1113

ECONOMICS .............................................................. 3 hours
Select one from the following: AGRC 1334, ECON 2013, GEOG 3023, CRM 3603

II. BUSINESS COURSES .................................................. 21 hours

Required Courses: .................................................. 12 hours
BUS 1113, ACCTG 2013, MIS 2113, FIN 2113

Business Electives .................................................. 9 hours

III. ELECTIVES sufficient to complete .................................................. 60 hours
BUSINESS COURSES (BUS)

1113* INTRODUCTION TO BUSINESS, 3 hours credit
A general survey of the more significant principles, problems, and practices involved in the administration of business enterprises. This course includes a career orientation track where students shall learn about the functional areas of business (Accounting, Finance, Management, and Marketing) as well as participate in experiential exercises designed around career assessments and goal setting. Students shall participate in a minimum of two career-oriented assessments and shall engage in a civic project. No credit for juniors and seniors who are business administration or accounting majors. Lecture 3 hours.

2211-3 SPECIAL STUDIES, 1-3 hours credit
A study of special Business areas or problems. Areas of study will vary from semester to semester and from one discipline area of Business to another. The course may be repeated for additional credit with permission of Chair. Prerequisite: as listed for each separate offering and/or permission of the Chair.

3113* BUSINESS COMMUNICATIONS, 3 hours credit
Principles of effective business communication; organizational communication theory; document design; practice in preparing letters, memoranda, business reports, and employment-related messages; professional oral presentations. Prerequisite: ENGL 1213 or equivalent.

3213 BUSINESS LAW I, 3 hours credit
An overview of the legal system, principles of contract law, Uniform Commercial Code and how it has changed contract law, rights of debtors and creditors, and bankruptcy. Lecture 3 hours. Prerequisite: junior standing or permission of the Chair.

3223 BUSINESS LAW II, 3 hours credit
A continuation of Business Law I. Agency, partnership, and corporate law with an emphasis on selecting the form of business organization. Sections on personal and real property, bailments, and real estate transactions. A brief look at wills, estates, and trusts. Lecture 3 hours. Prerequisite: BUS 3213.

3613* BUSINESS STATISTICS, 3 hours credit
An introduction to quantitative tools used in business analysis. Measures of central tendency, dispersion, uncertainty, statistical inference, and sampling are covered, as well as regression and correlation, time series analysis, index numbers, and seasonal-cyclical variations. Lecture 3 hours. Prerequisite: MATH 2713.

3881-4 WORKSHOP, 1-4 hours credit
A course designed to emphasize specific Business and/or Economic topics. Combines the use of lectures and practical application exercises. May be repeated for a maximum of 6 credit hours. Prerequisites: junior standing and permission of the Chair; permission of the Chair if taken for no credit.

4023 BUSINESS OPERATIONS RESEARCH, 3 hours credit
Managerial decision-making processes and techniques. Includes a discussion of the environment of decision-making with emphasis on quantitative techniques such as linear programming, queuing theory, game theory, PERT analysis, Markov analysis, and inventory models. Lecture 3 hours. Prerequisite: BUS 3613.

4213 CPA LAW, 3 hours credit
A review of the principles of contracts, sales, agency, partnership, corporations, suretyship, property, and bankruptcy. Study of secured transactions, commercial paper, securities regulations, insurance, employment, and accountant's liability. Lecture 3 hours. Prerequisite: 6 hours of Business Law.

4471-3 SEMINAR IN BUSINESS, 1-3 hours credit
Group projects designed to meet special needs of students in any of the disciplines of the Business Department. Prerequisite: permission of the Chair.

4483 BUSINESS INTERNSHIP, 3 hours credit
Supervised work experience in a professional setting directly relating to the student’s business discipline. The internship will allow students to encounter practical workplace problems within their major field and gain experience in corporate and other business settings. May be repeated for a maximum of 6 hours, but repeat must be with a different business. A minimum of 150 hours of on-the-job training is required to complete the course. Prerequisite: department permission.

4491-3 INDEPENDENT STUDY IN BUSINESS, 1-3 hours credit
Independent readings and/or study of specific problems or special subjects, based on pre-approved outlines of plans, with conferences and/or written reports. Prerequisites: Nine upper-division hours in the discipline of the independent study and permission of the Chair. A proposal must accompany the request when submitted for approval.

4633 BUSINESS POLICY, 3 hours credit
A capstone course designed to integrate course work in various functional areas of business. The focus of the course is understanding business strategy and competitive environment. Emphasis is on critical thinking and analysis, and decision making for business. Group projects, cases, business plan exercises and/or business simulations are used to give students an opportunity to draw upon and integrate functional knowledge and skills. Both written and oral communications are stressed throughout the course. Prerequisites: FIN 3603, MGMT 3013, MKTG 3413, and graduating senior status, or permission of the Chair.

ECONOMICS COURSES (ECON)

1013* ECONOMIC HISTORY OF UNITED STATES, 3 hours credit
A survey of the economic development of the United States from early colonial economics through frontier stages to the present day mass industrial complexes. Lecture 3 hours.

2013* PRINCIPLES OF ECONOMICS I, 3 hours credit
An introduction to, and analysis of, the general concepts of the American capitalistic system; supply and demand; the determinants of the level of total output, employment, and prices; monetary policy; and American economic growth policies. Lecture 3 hours.

2023* PRINCIPLES OF ECONOMICS II, 3 hours credit
A continuation of Economics 2013 with analysis of the concepts of allocation of resources to the firm and the distribution of final output to the individual; domestic economic problems of agriculture, unions, monopoly, and social goods; international trade and payments; and foreign economics. Lecture 3 hours. Prerequisite: ECON 2013.

3013* MICRO ECONOMIC THEORY, 3 hours credit
An analysis of the overall functioning of the price system and of the modern business firm in a private enterprise, market-type economy. The relation of price, quantity, and profit under competition and imperfect competition. Lecture 3 hours. Prerequisite: ECON 2023.

3023* MACRO ECONOMIC THEORY, 3 hours credit
National income concepts; aggregate demand by household, business, government, and foreign sectors; determination of national income, interest rate, prices, output, and employment levels. Lecture 3 hours. Prerequisite: ECON 2023.

3313* MONEY AND BANKING, 3 hours credit
Historical survey of money and the evolution of banking; organization and the operation of banks, monetary theory and markets, and the functions of the Federal Reserve System. Lecture 3 hours. Prerequisite: ECON 2023. (Cross-listed with FIN 3313.)
**FINANCE COURSES (FIN)**

**3433 LABOR PROBLEMS, 3 hours credit**
Problems of labor in an industrial society, wages, hours, working conditions, conflicts between management and labor, principles of labor law. Lecture 3 hours. Prerequisite: ECON 2023.

**4413 COMPARATIVE SYSTEMS, 3 hours credit**
Comparative analysis of the economic theory and institutions of capitalism, socialism, communism, and fascism. Lecture 3 hours. Prerequisite: ECON 2023.

**4471-3 SEMINAR IN ECONOMICS, 1-3 hours credit**
Seminar presentation and special studies in Economics for undergraduate students. Prerequisite: permission of the Chair.

**4491-3 INDEPENDENT STUDY IN ECONOMICS, 1-3 hours credit**
Independent study of current topics in Economics for undergraduate students. Prerequisites: permission of the Chair and 9 upper-division hours in Economics. A proposal must accompany the request when submitted for approval.

**2113 PERSONAL FINANCE, 3 hours credit**
Problems and applications in personal finance. Study includes budgeting, credit use, financial institutions, insurance, real estate, taxes, investment, retirement, and estate planning. Lecture 3 hours.

**2643 INSURANCE, 3 hours credit**
Basic principles of insurance and management of insurable risks in a business organization and personal use of insurance. An analysis of fire, casualty, liability, life, and health insurance; as well as the various types of insurance organizations. Lecture 3 hours.

**2813 FUNDAMENTALS OF REAL ESTATE, 3 hours credit**
Basic principles with elementary discussion of title and transfer, value, liens, financing, and taxes. Professional ethics of the Real Estate Business. Forty-five hours of instruction. Lecture 3 hours. Prerequisite: ECON 2013 or department permission.

**3313* MONEY AND BANKING, 3 hours credit**
Historical survey of money and the evolution of banking; organization and the operation of banks, monetary theory and markets, and the functions of the Federal Reserve System. Lecture 3 hours. Prerequisite: ECON 2023. (Cross-listed with ECON 3313.)

**3603* PRINCIPLES OF FINANCE, 3 hours credit**
A basic course in financial structure; sources, acquisition and management of short-term and long-term funds in both the money and capital markets; money market; instruments; the comparative evaluation of corporate capital structure in terms of risk, control and flexibility. Lecture 3 hours. Prerequisites: ECON 2023 and ACCT 2023.

**3623 INVESTMENTS, 3 hours credit**
An introduction to the appraisal of securities and the management of investment in the various types of securities and on the concepts of asset and portfolio management. Lecture 3 hours. Prerequisite: FIN 3603 or permission of the Chair.

**3633 FINANCIAL MANAGEMENT, 3 hours credit**
A detailed examination of financial management decision making techniques. Topics include cash and profit planning, asset management, capital structure, capital budgeting, and firm valuation, including mergers and acquisitions. Lecture 3 hours. Prerequisite: FIN 3603.

**4471-3 SEMINAR IN FINANCE, 1-3 hours credit**
Seminar presentation and special studies in topics of current interest in finance. Prerequisite: permission of the Chair.

**4491-3 INDEPENDENT STUDY IN FINANCE, 1-3 hours credit**
Independent study of current topics in finance for undergraduate students. Prerequisites: permission of the Chair and 9 upper-division hours in finance. A proposal must accompany the request when submitted for approval.

**MANAGEMENT COURSES (MGMT)**

**2213 SUPERVISORY MANAGEMENT, 3 hours credit**
Study of the problems of entry level managers arising from legal constraints, manpower requirements, employee behavior, and other business-environment problems. Lecture 3 hours.

**3013* PRINCIPLES OF MANAGEMENT, 3 hours credit**
An introductory management course dealing with the fundamental principles of management: planning, organizing, and controlling. Lecture 3 hours. Prerequisite: junior standing or permission of the Chair.

**3513 HUMAN RESOURCE MANAGEMENT, 3 hours credit**
A comprehensive review of human resources policy development, along with a description and analysis of human resources techniques. The interdependence of human and operating functions is discussed. Focuses on the primary management functions as they relate to employment law, recruitment, selection, training, performance appraisal, compensation, and safety and health. Lecture 3 hours. Prerequisite: MGMT 3013 or permission of the Chair.

**3613 PRODUCTION AND OPERATIONS MANAGEMENT, 3 hours credit**
A study of manufacturing and service systems. Emphasizes product and process development; the planning of production facilities, quality control and production control systems; and logistics and distribution. Includes an introduction to quantitative tools useful in managing such activities. Lecture 3 hours. Prerequisites: MGMT 3013 and BUS 3613.

**3813 LABOR MANAGEMENT RELATIONS, 3 hours credit**
Study of the relationships between management and labor; contract negotiations, grievance procedures, and arbitration in the public and private sectors. Lecture 3 hours. Prerequisite: MGMT 3513.

**4013 ORGANIZATIONAL BEHAVIOR, 3 hours credit**
Concerns the application of knowledge relating to human behavior theory as it applies to the business environment. Includes motivation theory, leadership patterns, organization climate, interpersonal relations, intergroup behavior, etc. Emphasis is on behavioral research findings. Lecture 3 hours. Prerequisite: MGMT 3513.

**4023 STRATEGIC MANAGEMENT, 3 hours credit**
Emphasizes the techniques of initiating and implementing strategic planning. Strategic management concepts are examined in diverse business situations. Lecture 3 hours. Prerequisite: 9 hours of upper-division management.

**4033 CASE STUDY IN SMALL BUSINESS, 3 hours credit**
An application-based program to involve students in identifying problems and recommending solutions in actual business situations. Lecture 3 hours. Prerequisite: FIN 3603, senior standing, or permission of the Chair.
4053 BUSINESS AND SOCIETY, 3 hours credit
An examination of the external environment of business, the need to manage the external environment, and management's responsibility to the various elements of the environment. Lecture 3 hours. Prerequisite: MGMT 3513.

4143* MANAGERIAL COMMUNICATION, 3 hours credit
Application of communication theory and techniques to management situations. Development of oral and written communication skills as effective administrative tools. Lecture 3 hours. Prerequisite: BUS 3113.

4443 PROJECT MANAGEMENT, 3 hours credit
Using a core-based approach, this course examines the key elements in multimedia instructional project management: accounting, human resource management and multimedia. Develops essential skills such as project evaluation, contract preparation and maintenance, cost estimating and budget tracking, scheduling, human resource acquisition and training, and effective team management. Additional topics include: procurement of talent and intellectual property rights from other sources and ensuring that firm assets and copyright will be protected. Lecture 3 hours.

4471-4 SEMINAR IN MANAGEMENT, 1-4 hours credit
Group study of specified topics in management for undergraduate students. Can be repeated for a maximum of 9 hours credit under different topic titles. Prerequisites: 9 hours of upper-division management and permission of the Chair.

4491-3 INDEPENDENT STUDY IN MANAGEMENT, 1-3 hours credit
Independent study of specified topics in management for undergraduate students. Prerequisites: Senior standing, 9 upper-division hours in management, and permission of the Chair. A proposal must accompany the request when submitted for approval.

MARKETING COURSES (MKTG)

3413* PRINCIPLES OF MARKETING, 3 hours credit
A basic course utilizing a managerial approach to the study and development of marketing with emphasis on marketing strategy and development of marketing mix. Lecture 3 hours. Prerequisite: junior standing or permission of the Chair.

3423 CONSUMER MOTIVATION AND BEHAVIOR, 3 hours credit
An examination of the internal and external influences on buyer behavior; analysis of the buying process; consumer decision-making; and aggregate consumer behavior over time. Lecture 3 hours. Prerequisite: MKTG 3413.

3433 RETAILING, 3 hours credit
Designed to assist students seeking knowledge of the retail field. Principles and methods of organizing and operating a retail firm with particular emphasis on store layout, buying, pricing, sales promotion, control of stock, and evaluation. Lecture 3 hours. Prerequisites: MGMT 3013 and MKTG 3413.

3533 SALES MANAGEMENT, 3 hours credit
Problems of organization; planning and control of sales; formulation of sales policies and the operation of a sales force. Using the principles of selling along with supervising a sales program. Lecture 3 hours. Prerequisites: MGMT 3013 and MKTG 3413.

4433 ADVERTISING, 3 hours credit
A survey of the various advertising media; planning and evaluating advertising materials. Lecture 3 hours. Prerequisite: senior standing or permission of the Chair.

4443 MARKETING RESEARCH, 3 hours credit
Development of statistical techniques applicable to marketing research. Includes a discussion of experimental design, planning research and investigations; formulation of hypothesis; logic and reasoning; conducting research investigations including formulation of the problem, sampling techniques, interviews, developing questionnaires; and the application of statistical techniques for reporting data. Lecture 3 hours. Prerequisites: MKTG 3423 and BUS 3613.

4481-3 SEMINAR IN MARKETING, 1-3 hours credit
Study of specified topics in marketing. Can be repeated for a maximum of 9 hours credit under different topic titles. Prerequisites: MKTG 3413 and permission of the Chair.

4491-3 INDEPENDENT STUDY IN MARKETING, 1-3 hours credit
Intensive study and directed research on special topics in marketing. Prerequisites: Nine upper division hours in marketing and permission of the Chair. A proposal must accompany the request when submitted for approval.

* Liberal arts and sciences course.
The mission of the School of Education and Behavioral Sciences is to offer undergraduate and graduate level educational opportunities to degree seeking students and life-long learners. The School provides undergraduate course work in the fields of Education, Health and Physical Education, and Psychology and Human Ecology. These primary areas of study encompass several specializations. In addition to supporting general education preparation and undergraduate degrees, the School provides graduate degrees in Education and Behavioral Sciences. Several disciplines blend academics with field based and practical experiences as a regular part of the educational process.

Excellence in teaching and learning is highly prized and is viewed as the most significant role of the School and University. Faculty, students, and administration work interactively with communities by providing economic research support, cultural opportunities, and educational outreach experiences.
Elementary (1-8)

Students majoring in Elementary Education may be recommended for a Standard Oklahoma Elementary Teaching License. See the catalog section which deals with the Department of Education.

Secondary

Students attending Cameron University may pursue programs of study for an Oklahoma teaching license at the secondary level. Teacher Education programs are available to Cameron students in the following areas: Biology, Chemistry, English, Mathematics, and Social Studies.

Secondary Education majors must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages.

Elementary - Secondary

PK-12

Students may pursue programs of study in Romance Languages Education (French and Spanish) and Physical Education which will allow them to be recommended for a teaching license for the elementary-secondary levels. For a list of the required courses in these fields of specialization refer to the specific discipline area in this catalog.

Elementary-Secondary Education majors must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages.

Admission to Teacher Education

Admission to teacher education is achieved through a formal process. Requirements for admission to Teacher Education are as follows:

(a) A grade of C or better in: ENGL 1113, ENGL 1213, COMM 1113, MATH 1513 or higher, HIST 1483 or 1493, PS 1113 and 2 Humanities.
(b) A grade of S in EDUC 1800.
(c) Concurrent enrollment OR a grade of C or better in EDUC 3003, EDUC 3733, Science (Biology or Physical Science). (Students concurrently enrolled in EDUC 3003 must provide a grade check of C or better.*)
(d) Passing scores on the Nelson Denny reading test (taken during Intro class) and OGET.
(e) Maintain GPA of 2.5 at all times.
(f) Passing score on EDUC 3003 Lesson Plan Rubric.
(g) Three positive recommendation forms with unit dispositions.
(h) Satisfactory completion of entry interview.

*If the student receives a grade below C or a grade of I, the admission to Teacher Education will be revoked, any enrollments in restricted classes for the upcoming semester will be dropped, and the student will have to reapply for admission.

Bachelor of Science Degree

Major in Elementary Education (350)

I. General Education Requirements .................................................. 50 hours

General Education requirements are found on the red striped pages. Elementary Education majors must complete twelve (12) semester hours in each of the following areas: mathematics, social sciences, sciences, and English.

Elementary Education majors should
(a) select MATH 1513 or 1813 to meet the Mathematics requirement.
(b) choose HLTH 1012 as 2 hours of the Physical Education requirement.
(c) choose PSY 1113 (a prerequisite to EDUC 3733) to meet the Behavioral Science requirement.
(d) choose a social studies course and a science course as General Education electives.
(e) demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by taking a foreign language course or by passing a Department of English and Foreign Languages proficiency test.

II. MAJOR ................................................................. 36 hours

Required Courses
MATH 2353 or elective, MATH 2363 or elective, MATH 1513 or above,
LIBS 3423, EDUC 3023, EDUC 3513, EDUC 3533, EDUC 4423 (R),
EDUC 4443 (R), EDUC 4463 (R), EDUC 4483 (R), EDUC 4553 (R), LANG elective or Successful Proficiency Test.

III. Professional Education .............................................................. 36 hours

EDUC 1800, EDUC 3003, EDUC 3013, SPED 3103, EDUC 3733,
EDUC 3753 (R), EDUC 3673, EDUC 4653 (R), *EDUC 4935 (R),
*EDUC 4945 (R), *EDUC 3612, EDUC 4313 (R).

* Should be taken in the professional semester.
(R) Restricted to students admitted to Teacher Education.

IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION.

V. Students must achieve a grade of C or better in Elementary Education Major courses and the Professional Education courses and courses that fulfill the state 4x12 requirement, whether taken with an Education prefix or a prefix from another department, in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Teacher Licensure/Certification

The student who completes the requirements for this degree and passes the State tests for certification in Elementary Education will be eligible to apply for a teaching license.
I. GENERAL EDUCATION REQUIREMENTS ........................................... 50 hours
General Education requirements are found on the red striped pages.
Early Childhood Education majors must complete twelve (12) semester hours in each of the following four areas: mathematics, social sciences, sciences, and English (state 4x12 requirement).

Early Childhood Education majors should
(a) choose PSY 1113 (a prerequisite to EDUC 3733) to meet the Behavioral Science requirement.
(b) choose MATH 1513 or 1813 to meet the Mathematics requirement.
(c) choose HIST 2113 or 2223 or PHIL 1113 or 2213 as 3 hours of the Humanities requirement.
(d) choose from ART 1013, ART 2613, ART 2623, THTR 1103, FNAR 1013, MUSC 1013, MUSC 1023, MUSC 1033, or MUSC 1413 to meet the other 3 hours of the Humanities requirement.
(e) choose a social studies course and a science course as General Education electives.
(f) demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by passing a Department of English and Foreign Languages proficiency test or by taking a foreign language course.

II. MAJOR ................................................................. 41 hours

Required Courses
ECE 2163, EDUC 3023, ECE 3154, ECE 3303, ECE 4144, EDUC 3513, EDUC 4423 (R), EDUC 4463 (R), EDUC 4553 (R), LIBS 3423, MATH 1513 or above, MATH 2353 or math elective, MATH 2363 or math elective.

(R) Restricted to students admitted to Teacher Education.

III. PROFESSIONAL EDUCATION ........................................... 33 hours
ECE 4653 (R), EDUC 1800, EDUC 3003, *EDUC 3612, EDUC 3673, EDUC 3733, EDUC 3753 (R), EDUC 4313 (R), *EDUC 4935 (R), *EDUC 4995 (R), SPED 3103.

* Should be taken in the professional semester.
(R) Restricted to students admitted to Teacher Education.

IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION.

V. Students must achieve a grade of C or better in Early Childhood Education major courses, Professional Education courses, and courses that fulfill the state 4x12 requirement, whether taken with an Education prefix or a prefix from another department, in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in Early Childhood Education will be eligible to apply for a teaching license.

I. GENERAL EDUCATION REQUIREMENTS ........................................... 27 hours
All General Education courses listed here will apply toward a Bachelor’s degree. Computer literacy is recommended before taking college classes. Zero level classes may be necessary before entering some college courses.

Required Courses
ENGL 1113, ENGL 1213, COMM 1113, PSY 1113, PS 1113, HIST 1483 or 1493, MATH 1513 or 1813.

Electives (6 hours) may be selected from the following courses:
HUMANITIES (Art or Music Appreciation, American Popular Music, or Conversational Language), HLT 1012 (Wellness and Exercise), SCIENCE (General Biology, General Physical Science, Earth Science).

II. EARLY CHILDHOOD EDUCATION AND CARE ........................................... 33 hours

Required Courses:
ECEC 1113, ECEC 1123, *ECE 2163, ECEC 1213, ECEC 1223, ECEC 2103, FAMS 3143, ECEC 2233.

Select six (6) hours from the following technical support courses:
ECE 4403, ECEC 2223, FAMS 1123, ECEC 2123.

Select three (3) hours from the following technical-related courses (at least 2 practicum classes must be taken):
ECEC 1111, ECEC 1221, ECEC 2111, ECEC 2211, ECEC 2881-3.

*Denotes classes that apply to the Bachelor of Science Degree in Early Childhood Education.

I. INFANT PRACTICUM, 1 hour credit
Supervised practical experiences with infants (birth-12 months) in the workplace. This course requires 100 clock hours in the workplace. Prerequisites: ECEC 2123 or concurrent enrollment and consent of instructor, which includes arrangements for the practicum site prior to enrollment.

II. CHILD GROWTH AND DEVELOPMENT, 3 hours credit
The principles of physical, intellectual, emotional, social and linguistic development of children from diverse cultural backgrounds are studied.

III. INTRODUCTION TO EARLY CARE AND EDUCATION, 3 hours credit
An introduction to the profession of early childhood education focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, current issues, and what it means to be a professional.

IV. CURRICULUM RESOURCES AND ACTIVITIES, 3 hours credit
The course focuses on a developmentally appropriate activity-oriented approach to curriculum for young children.
1211 YOUNG CHILD PRACTICUM, 1 hour credit
Supervised practical experiences with young children (3-5 years) in the workplace. This course requires 100 clock hours in the workplace. Prerequisites: ECEC 1213 or concurrent enrollment and consent of instructor, which includes arrangements for the practicum site prior to enrollment.

2223 ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS, 2 hours credit
A practical approach to the management procedures for operating, supervising, and evaluating programs for young children.

2233 LITERACY FOR CHILDREN, 3 hours credit
A study of principles, methods, and materials for helping young children develop literacy using developmentally appropriate practices.

2881 SPECIAL TOPICS, 1 hour credit
Directed individual or group study of selected topic(s) in Early Childhood Education Care. The course may be repeated for additional credit with department permission. Prerequisite: as listed for each separate offering and/or department permission.

EDUCATION COURSES (EDUC)

2881-3 SELECTED TOPICS IN EDUCATION, 1-3 hours credit
Directed individual or group study of selected topics in education. The course may be repeated for additional credit with department permission. Prerequisite: as listed for each separate offering and/or department permission.

3303 HOME, SCHOOL AND COMMUNITY, 3 hours credit
Overview of the impact of home, school, and community relationships as they affect the total educational experience of the child from birth through age eight. Examines the importance of parental involvement in the schools and a variety of community resources available to both educators and parents that enhance the educational experiences of the child. Techniques to develop and maintain home, community, and school communications will be explored.
3003* INTRODUCTION TO TEACHING, 3 hours credit
An introductory course in education; prerequisite to most education courses; introduces students to role of education in a democratic society, basic principles and techniques of teaching, scope and organization of public school system in the United States, and place of teacher in school and community. Additionally requires field component in the public schools. Lecture 3 hours. Prerequisite: second semester freshman standing.

3013* CULTURAL FOUNDATIONS OF EDUCATION, 3 hours credit
A survey of the development of education in the United States with emphasis on the influence of culture on educational theory and practice. Both philosophies and practices historically dominant in education in the United States and perspectives arising from cultural diversity will be explored. Lecture 3 hours.

3023 CREATIVE EXPERIENCES FOR EARLY CHILDHOOD AND ELEMENTARY SCHOOL: AN INTEGRATED APPROACH, 3 hours credit
The study of art, music, drama, and dance appropriate for early childhood and elementary school children. Emphasis will be placed on the fundamentals of art, music, drama, and dance as well as the integration of aesthetic and creative experiences into the elementary curriculum.

3513 TEACHING PRIMARY READING, 3 hours credit
Principles and practice of teaching reading grades K through 3 with emphasis on emerging literacy and beginning reading skills. Lecture 3 hours. Prerequisite: LIBS 3423.

3553 TEACHING INTERMEDIATE/MIDDLE SCHOOL READING, 3 hours credit
Principles and practices of teaching reading in grades 4 through 8 with emphasis on development of vocabulary and comprehension and the place of literature in the reading program. Prerequisite: EDUC 3513.

3612 CLASSROOM MANAGEMENT, 2 hours credit
The study of effective practices of classroom management, motivation, and disciplinary methodologies. Prerequisite: admission to professional semester.

3673 MEDIA AND TECHNOLOGY IN EDUCATION, 3 hours credit
The study of Instructional Technology as a theory and practical process for aiding in the learning process. The course includes techniques and technology used in planning, selection, production, utilization, and evaluation of a variety of instructional materials and computer-related technologies. Lecture 3 hours.

3733* DEVELOPMENTAL PSYCHOLOGY, 3 hours credit
A survey of the physical, mental, social, moral, and emotional development of the individual from conception through adolescence. For students in Teacher Education programs. Will not count toward major or minor in Psychology. Prerequisite: PSY 1113.

3753* EDUCATIONAL PSYCHOLOGY, 3 hours credit
Introduction to the behavioral and cognitive sciences in education; application of current research and theories of learning, intelligence and motivation to classroom practice. Additionally requires field component in the public schools. Lecture 3 hours. Prerequisites: EDUC 3733 and admission to Teacher Education.

3881-2 WORKSHOP, 1-2 hours credit
Course designed to give intensive emphasis of specific topic(s) related to elementary and/or secondary education. May be repeated for a maximum of 4 hours credit. Prerequisites: junior standing and department permission.

4313 PRACTICUM IN ASSESSMENT AND INSTRUCTION, 3 hours credit
A pre-service teaching experience in the public school, taught in conjunction with a lecture class on campus. Observation and participation under public school teacher guidance. Additionally requires 60 hours field component in the public schools. Prerequisite: admission to Teacher Education. Must be taken concurrently with EDUC 4653 or ECE 4653.

4423 LANGUAGE ARTS METHODS, 3 hours credit
An elementary methods course emphasizing language arts integrated with other content areas. Focus on listening, speaking, reading, writing, viewing and visually representing with elementary school applications. Lecture 3 hours. Prerequisite: admission to Teacher Education.

4443 SOCIAL STUDIES METHODS, 3 hours credit
An elementary methods course emphasizing social studies integrated with other content areas. Focus on history, geography, economics, sociology, anthropology, and civics with intermediate/middle school applications. Lecture 3 hours. Prerequisite: admission to Teacher Education.

4463 MATHEMATICS METHODS, 3 hours credit
An elementary methods course emphasizing mathematics integrated with other content areas. Focus on arithmetic and mathematical processes with elementary school applications. Additionally requires a supervised field component. Lecture 3 hours. Prerequisite: admission to Teacher Education.

4483 SCIENCE METHODS, 3 hours credit
An elementary methods course emphasizing science integrated with other content areas. Focus on physical, life, and earth disciplines of science with elementary school applications. Lecture 3 hours. Prerequisite: admission to Teacher Education.

4553 DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES, 3 hours credit
A study of reading difficulties and techniques of remediation of such difficulties. Additionally requires 10 hours supervision and guidance of a special education mentor teacher and university supervisor. A professional education seminar is included. Prerequisites: admission to professional semester, SPED 3203, SPED 3263, SPED 3223, SPED 3243, and SPED 4413.

4653 CLASSROOM ASSESSMENT, 3 hours credit
Selection, design, administration, and interpretation of a variety of assessment methods. Use of assessment results to make instructional decisions, plan instructional activities, and develop appropriate grading practices. Communication of results to students, parents, educators, and the community. Lecture 3 hours. Prerequisite: admission to Teacher Education. Must be taken concurrently with EDUC 4513.

4815 DIRECTED OBSERVATION AND INTERNSHIP IN THE ELEMENTARY SCHOOL-MILD/MODERATE DISABILITIES, 5 hours credit
Students observe, participate, and teach in elementary school special education settings under the supervision and guidance of a special education mentor teacher and university supervisor. A professional education seminar is included. Prerequisites: admission to professional semester, SPED 3203, SPED 3263, SPED 3223, SPED 3243, and SPED 4413.

4881-3 SELECTED TOPICS IN EDUCATION, 1-3 hours credit
Directed group study on a special subject or problem, based upon existing methods and/or instructional techniques which are applicable to teaching in all content areas. Prerequisite: EDUC 3003. May be repeated with department permission.

4891-3 SPECIAL STUDIES, 1-3 hours credit
Directed individual study in selected areas of education through research, readings, reports and/or on-site internship. Evaluation will be based on completion of an approved plan of study, with conferences and/or written reports. May be repeated for a total of 3 hours credit. Prerequisites: junior standing and department permission.

4935 DIRECTED OBSERVATION AND INTERNSHIP IN PRIMARY GRADES, 5 hours credit
Elementary education majors observe, participate and teach in primary grade classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.
4945 DIRECTED OBSERVATION AND INTERNSHIP IN INTERMEDIATE/MIDDLE SCHOOL GRADES, 5 hours credit
Elementary education majors observe, participate and teach in intermediate/middle school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

4955 DIRECTED OBSERVATION AND INTERNSHIP IN ELEMENTARY SCHOOL, 5 hours credit
Students majoring in PK-12 subject areas observe, participate and teach in elementary school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

4965 DIRECTED OBSERVATION AND INTERNSHIP IN JUNIOR HIGH SCHOOL, 5 hours credit
Secondary education majors observe, participate, and teach in junior high/middle school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

4975 DIRECTED OBSERVATION AND INTERNSHIP IN SENIOR HIGH SCHOOL, 5 hours credit
Secondary education majors observe, participate, and teach in senior high school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

4985 DIRECTED OBSERVATION AND INTERNSHIP IN SECONDARY SCHOOL, 5 hours credit
Students majoring in PK-12 subject areas observe, participate, and teach in secondary school classrooms under the supervision and guidance of a mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

4995 DIRECTED OBSERVATION AND INTERNSHIP IN EARLY CHILDHOOD, 5 hours credit
Early childhood education majors observe, participate, and teach in early childhood classrooms under the supervision and guidance of an early childhood mentor teacher and university supervisor. A professional education seminar is included. Prerequisite: admission to professional semester.

LIBRARY SCIENCE COURSES (LIBS)

3423* CHILDREN'S LITERATURE, 3 hours credit
General survey of the literature available for children. Criteria for evaluation of materials in terms of needs, interests, and abilities of children. Methods of selecting books and introducing them to children. Lecture 3 hours.

SPECIAL EDUCATION COURSES (SPED)

2103 THE YOUNG CHILD WITH SPECIAL NEEDS, 3 hours credit
This course introduces teachers, service providers and paraeducators to early childhood special education and intervention methods. The course will focus on children from birth to age five who are at risk for school success due to such factors as congenital disorders, developmental problems, and environmental factors such as poverty, abuse, and cultural linguistic differences.

3103* THE EXCEPTIONAL CHILD, 3 hours credit
Introduces pre-service teachers to characteristics, problems and special needs of exceptional children with specific application to the education of special needs students in general education classrooms (inclusion). Includes adaptation of curriculum and materials by the regular classroom teacher for students with exceptionalities and methods for teaching exceptional children and youth. Additionally requires ten (10) hour field component. Lecture 3 hours. Prerequisite: EDUC 3733 or PSY 3353.

3203 CHARACTERISTICS OF EXCEPTIONAL CHILDREN, 3 hours credit
A comprehensive overview of the characteristics of all exceptional children (Mild-Moderate and Severe-Profound/Multiple Disabilities), the influence of the disability and other factors on the learning, behavior, and social interaction skills of students. Also requires a 4 hour field component.

3223 ASSESSMENT AND EVALUATION IN SPECIAL EDUCATION, 3 hours credit
Psychological and educational diagnostic evaluation of exceptional learners. Study of assessment instruments: their construction, selection, administration, use in diagnosis and placement of exceptional individuals (ages 0-21).

3243 BEHAVIOR INTERVENTION AND MANAGEMENT, 3 hours credit
Methods for managing behavior problems and developing social-emotional skills including behavior modifications, precision teaching techniques, organization of classroom and materials to promote student learning, methods to motivate students, and contingency contracting.

3263 FOUNDATIONS OF SPECIAL EDUCATION, 3 hours credit
Philosophical, historical and legal foundations of special education. Professionalism, ethical practices, individualized education plans, least restrictive environment, and communication and collaboration skills will be addressed.

3803 SPECIAL TOPICS IN SPECIAL EDUCATION, 1-3 hours credit
Topics of special interest in special education. May be repeated once with a change of topic. Prerequisite: department permission.

3821-3 WORKSHOP IN SPECIAL EDUCATION, 1-3 hours credit
Selected educational procedures and policies and/or activities for use in classrooms. Course may be repeated with different topics. May be repeated for a maximum of 4 hours credit. Prerequisites: junior standing and department permission.

4413 TEACHING STUDENTS WITH MILD/MODERATE DISABILITIES, 3 hours credit
Techniques of diagnosis and remediation of learning problems in academic areas with emphasis on reading, language arts, mathematics and functional academics. The application of educational interventions and how to locate, construct, select, use, and evaluate media and materials, including assistive and adaptive devices. The course also equips participants with skills needed for instructional programming and improving behavior for students who are behaviorally challenged. Also requires a 4 hour field component. Prerequisite: SPED 3203 or department permission.

See the Graduate School Catalog for course descriptions of graduate courses (5000 level) in special education.

* Liberal arts and sciences course.
The Department of Health and Physical Education offers a Bachelor of Science degree in Physical Education and Health and a Bachelor of Science degree in Physical Education.

Consult a departmental advisor regarding questions and/or advisement.

### BACHELOR OF SCIENCE DEGREE

#### MAJOR IN HEALTH AND PHYSICAL EDUCATION (370)

**I. GENERAL EDUCATION REQUIREMENT**

- General Education requirements are found on the red striped pages.

**II. MAJOR or MAJOR-MINOR**

- Core Courses: HLTH 1053, HLTH 2213, HLTH 3012, HLTH 3244, HLTH 4503, HPET 2322, SFTY 3613; Physical Education Activity Courses (5 hours).
- Concentration: HLTH 3012, HLTH 3244, HLTH 4503, HPET 2322, HPET 4772, HPET 4781-2, HPET, HLTH, or SFTY Electives (5 hours), Physical Education Activity (3 hours).

**III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION**

### BACHELOR OF SCIENCE DEGREE

#### MAJOR IN PHYSICAL EDUCATION (378)

**I. GENERAL EDUCATION REQUIREMENTS**

- General Education requirements are found on the red striped pages.

**II. MAJOR**

- Core Courses: FNS 1343, HLTH 1053, HLTH 3303, HLTH 3292, HLTH 3352, HPET 3362, HPET 4003, HPET 4203, HPET 4772, HPET 4781-2, HPET, HLTH, or SFTY Electives (5 hours), Physical Education Activity (3 hours).

**III. PROFESSIONAL EDUCATION**

- Professional Education: FNS 1343, HLTH 1053, HLTH 3303, HLTH 3292, HLTH 3012, HLTH 3244, HLTH 4503, HPET 2322, HPET 4772, HPET 4203, HPET 3332, HPET 3352, HPET 3362, HPET 4003, HPET 4781-2, SFTY 3613

**IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION**

- Teacher Licensure/Certification: The student who completes the requirements for this degree and passes the state tests for certification in Physical Education will be eligible to apply for a standard teaching license.

- Note: Persons planning to coach athletics should complete Theory of Coaching courses in two or more sports.

- Note: A grade of "C" or better is required in all major courses and all professional education courses.
HEALTH COURSES (HLTH)

1012* DIMENSIONS OF WELLNESS AND EXERCISE SCIENCE, 2 hours credit
A study of major wellness dimensions and their effect upon physiological, psychological, and neuromuscular parameters. Emphasis on a scientific basis of knowledge related to exercise, nutrition, and other wellness components. Lecture 2 hours.

1053* PERSONAL AND COMMUNITY HEALTH SCIENCE, 3 hours credit
Problems and practices concerning knowledge and attitudes related to self-direction of health behavior in both personal and community health.

2213 FIRST AID, 3 hours credit
Immediate and temporary treatment for accidental injuries and sudden illness.

3012 ADAPTED PHYSICAL EDUCATION, 2 hours credit
Principles and problems related to adapting physical activities and exercises to specific requirements of exceptional individuals. Additionally requires field component in the public schools. Lecture 2 hours. Prerequisite: admission to Teacher Education.

3244* APPLIED ANATOMY AND KINESIOLOGY, 4 hours credit
The study of the mechanical and anatomical functions of human motion. (May not be used as a Biology course.) Lecture 4 hours.

3292 SPORTS MEDICINE I, 2 hours credit
Methods of caring for injuries to athletes. Lecture 2 hours.

3303 SCHOOL AND COMMUNITY HEALTH PROGRAMS, 3 hours credit
A study of the school and community health programs which will include: (1) health instruction, including curriculum; (2) health services, and (3) healthful school and community environment. Emphasis will be placed on health programs in school-community relations. Lecture 3 hours.

4503* PHYSIOLOGY OF EXERCISE, 3 hours credit
A study of the physiological effects of physical exercise with instruction and practice for use of laboratory equipment and techniques utilized in the evaluation of human work capabilities. Lecture 2 hours, laboratory 2 hours. Prerequisite: HLTH 3244.

4553 EXERCISE PRESCRIPTION, 3 hours credit
Exercise prescription for normal and special populations. Competencies in physiological testing, exercise prescription, exercise leadership, handicapping conditions, and exercise and aging are incorporated. Prerequisites: HLTH 2213, HLTH 3012, HLTH 4203, HLTH 4503, and HPER 2322.

HEALTH AND PHYSICAL EDUCATION THEORY COURSES (HPET)

2322 INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION, 2 hours credit
A foundational approach to interpretations and objectives of Health, Physical Education and Recreation, with information on career opportunities and the necessary qualifications. Designed to assist the major in developing a sound philosophic background for continued growth in the professional field. Lecture 2 hours. (Recommended for freshmen and sophomore majors.)

2341-3 SPECIAL STUDIES, 1-3 hours credit
Directed independent study in selected areas of health, physical education and recreation through research, observation and/or on-the-job internship. May be repeated with a different topic for a total of 6 hours. Prerequisite: department permission.

3012 PSYCHOLOGY OF COACHING, 2 hours credit
Examination of psychological components of coaching and talent development. Explores coaching development, coaching models and strategies for dealing with athletes and coaching contexts. Lecture 2 hours.

3332 PHYSICAL EXAMINATION AND MEASUREMENTS, 2 hours credit
Methods in techniques of examination; forming and keeping records; elementary physical diagnosis. Lecture 2 hours.

3352 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL, 2 hours credit
Program and management of games and activities including movement learning for elementary school age children. Concepts of health including wellness, fitness, and nutrition are explored. Additionally requires field component in the public schools. Lecture 2 hours. Prerequisite: admission to Teacher Education.

3353 CAMP COUNSELING, 3 hours credit
A study of methods and content for leadership in camping and outdoor recreation. One weekend camp out required. Lecture 3 hours. Prerequisite: HPET 2322.

3362 PHYSICAL EDUCATION IN THE JUNIOR AND SENIOR HIGH SCHOOL, 2 hours credit
Planning and management of activities with organization and practice in teaching of games and sports. Lecture 2 hours. Prerequisite: admission to Teacher Education.

3363* COMMUNITY AND RECREATIONAL LEADERSHIP, 3 hours credit
Introductory course in the history, philosophy, organization, management, and materials of community and private recreation. Lecture 3 hours.

3373 THERAPEUTIC RECREATION, 3 hours credit
Planning and programming recreational activities and leisure-related experiences for individuals who have special impairments, such as chronic illness or physical, mental, emotional or social disability. Lecture 2 hours, laboratory 2 hours. Prerequisite: HPET 2322.

4003 ORGANIZATION AND ADMINISTRATION OF ACTIVITY-BASED PROGRAMS, 3 hours credit
A study of the organization and administration of activity-based programs and an analysis of the factors associated with their management. Lecture 3 hours.

4203 MOTOR LEARNING, 3 hours credit
An examination of the processes and the organismic and situational factors related to the acquisition and performance of motor skills. Lecture 3 hours. Prerequisites: HLTH 3012 and HLTH 3244.

4772 METHODS OF TEACHING PHYSICAL EDUCATION, 2 hours credit
Problems and methods in the teaching of Physical Education. Additionally requires field component in the public schools. Lecture 2 hours. Prerequisite: admission to Teacher Education.

4781-4 SPECIAL STUDIES, 1-4 hours credit
Directed independent study in selected areas of Health, Physical Education and Recreation through research, observation, and/or on-the-job internship. May be repeated with a different topic to a total of 9 hours. Prerequisites: junior standing and department permission.

PHYSICAL EDUCATION ACTIVITY COURSES (PE)

1001 AEROBICS, 1 hour credit
A scientific, systematic approach to pulmonary, cardiovascular conditioning and training. Fitness classifications will be determined, and an appropriate individual exercise program will be selected. Laboratory 2 hours. Prerequisite: physician's examination or approval.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>1021</td>
<td>TEAM SPORTS, 1 hour credit</td>
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<td>1081</td>
<td>PHYSICAL EDUCATION ACTIVITY, 1 hour credit</td>
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<td>1101</td>
<td>BEGINNING SWIMMING, 1 hour credit</td>
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<td>INTERMEDIATE SWIMMING, 1 hour credit</td>
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<td>1251</td>
<td>BEGINNING SAILING, 1 hour credit</td>
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<td>1261</td>
<td>CANOEING AND CAMPING, 1 hour credit</td>
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<td>FUNDAMENTALS OF FISHING, 1 hour credit</td>
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<td>2001</td>
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<td>2011</td>
<td>ELEMENTARY BOWLING, 1 hour credit</td>
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<td>ADVANCED BOWLING, 1 hour credit</td>
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<td>2201</td>
<td>BASEBALL, 1 hour credit</td>
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<tr>
<td>2211</td>
<td>BASKETBALL, 1 hour credit</td>
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<td>2231</td>
<td>GOLF, 1 hour credit</td>
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<td>2241</td>
<td>TRACK AND FIELD, 1 hour credit</td>
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<td>2251</td>
<td>TENNIS, 1 hour credit</td>
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<td>2261</td>
<td>SOFTBALL, 1 hour credit</td>
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<td>2271</td>
<td>VOLLEYBALL, 1 hour credit</td>
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<td>SAFETY COURSES (SFTY)</td>
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<tr>
<td>3613*</td>
<td>DRUGS AND SOCIETY, 3 hours credit</td>
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* Liberal arts and sciences course
The Department of Psychology and Human Ecology offers programs leading to the Bachelor of Science degree with a major in Psychology or a major in Psychology with a minor in Special Education. Refer to the Graduate Catalog for information relating to the Psychology specialty in the Master of Science in Behavioral Sciences degree program.

BACHELOR OF SCIENCE DEGREE
MAJOR IN PSYCHOLOGY (165)

Psychology is the scientific study of behavior. Through courses in psychology, students will learn principles which govern human behavior. The courses offered reflect the diversity in psychology and meet the educational objectives of at least three groups of students: (1) Those who seek a general survey course in the field of psychology or those who wish to study a program of psychology in depth at the undergraduate level but do not contemplate entrance into psychology as a profession, (2) those who wish to enter psychology as a profession immediately after the Bachelor's Degree, and (3) those who plan to attend graduate school and then enter psychology as a profession.

I. GENERAL EDUCATION REQUIREMENTS .................................................. 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 42 hours

   Required Courses ................................................................. 27 hours
   PSY 1113, PSY 2113, PSY 3353, PSY 3413, PSY 3423, PSY 4363,
   PSY 4393, PSY 4423, PSY 4433

   Electives ................................................................. 15 hours
   Selected from Psychology course offerings with a minimum of 9 hours
   having a prefix of 3000 or above: PSY 2223, PSY 2323, PSY 3313, PSY 3333, PSY 3383, PSY 4313, PSY 4443

III. MINOR ................................................................. 18 hours
   Minimum of 18 hours: SPED 3103, SPED 3203, SPED 3263, SPED 3223, SPED 3243, SPED 4413.

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

MAJOR IN PSYCHOLOGY/MINOR IN SPECIAL EDUCATION

A major in Psychology with a minor in Special Education provides an opportunity for individuals to become familiar with children and youth with special needs. The minor in Special Education does not prepare students for state teaching licensure in the public schools.

I. GENERAL EDUCATION REQUIREMENTS .................................................. 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 42 hours

   Required Courses ................................................................. 27 hours
   PSY 1113, PSY 2113, PSY 3353, PSY 3413, PSY 3423, PSY 4363,
   PSY 4393, PSY 4423, PSY 4433

   Electives ................................................................. 15 hours
   Selected from Psychology course offerings with a minimum of 9 hours
   having a prefix of 3000 or above: PSY 2223, PSY 2323, PSY 3313, PSY 3333, PSY 3383, PSY 4313, PSY 4443

III. MINOR ................................................................. 18 hours
   Minimum of 18 hours: SPED 3103, SPED 3203, SPED 3263, SPED 3223, SPED 3243, SPED 4413.

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

CONSUMER RESOURCE MANAGEMENT COURSES (CRM)

3603* CONSUMER ECONOMICS, 3 hours credit
Use of economic theories and principles to understand the management of consumer resources, the process of rational decision making and the importance of citizen participation in the economic process. Lecture 3 hours. Prerequisite: junior standing or department permission.

3623* CONSUMER RESOURCE MANAGEMENT, 3 hours credit
Concepts and procedures of resource management with application to the problems and responsibilities of individuals and families. Emphasis given to decision-making, resource conservation, and computer application to resource management. Prerequisite: Junior standing or permission of the department.

4033* PROFESSIONAL CAREER DEVELOPMENT, 3 hours credit
Relationship of appearance and dress in creating a professional image for men and women. Effective resume design; interviewing skills; executive etiquette; career research and advancement strategies. Prerequisite: Junior standing or permission of the department.

4633* WORK AND SOCIETY, 3 hours credit
Comprehensive examination of linkages between personal, family and work life. A contemporary analysis of laws, attitudes, and demographic trends that form the reciprocal relationship between work and society. Lecture 3 hours. Prerequisite: Junior standing or permission of the department.

4781-3 CRM, FNS, FAMS WORKSHOP, 1-3 hours credit
Workshop designed to give intensive emphasis to a specific area. May be repeated with a different topic for a total of 6 hours. Prerequisite: permission of the department.
FAMILY SCIENCE COURSES (FAMS)

1123* FAMILY RELATIONS, 3 hours credit
An examination of research, issues, challenges, opportunities, and trends relating to family interaction and decision making over the life-span

1163* HUMAN ECOLOGY, 3 hours credit
Basic ecological principles and concepts related to health will be presented. Humanity's place within the environment will be surveyed including the interrelationships of geographic, political, economics, social, psychological and other factors.

3143* PARENTHOOD EDUCATION, 3 hours credit
Education as to the decisions, responsibilities and social issues related to parent-child relationships. Understanding the role of the parent with emphasis on communication, creativity and discipline. Lecture 3 hours. Prerequisite: FAMS 1123, junior standing or permission of the department.

4123 MARRIAGE, 3 hours credit
Identification and analysis of stressors in contemporary marriages. Strategies for enrichment will be emphasized. Lecture 3 hours. Prerequisite: FAMS 1123, junior standing or permission of the department.

4133* MIDDLE AND LATER ADULT YEARS, 3 hours credit
Emphasis on development processes and generational relationships. Individuals in middle and later stages of the family life cycle will be studied. Changing family composition, role transitions, support systems and potentials for enhancement will also be investigated. Lecture 3 hours. Prerequisite: FAMS 1123 or PSY 1113 or SOCI 1113.

4143* CRISIS MANAGEMENT AND RESOURCES, 3 hours credit
Examination of crisis and management theories and strategies used to help individuals and families deal productively with crisis producing situations. Identification and mobilization of pertinent personal, family, and community resources. Prerequisite: junior standing or permission of the department.

4153* HUMAN SEXUALITY, 3 hours credit
The investigation of human sexuality against a background of changing sexual mores for a physiological, psychological and sociological perspective. Exploration of current issues and implications for future trends in human interaction. Special emphasis on the development of healthy interpersonal relationships. Prerequisites: FAMS 1123, PSY 1113 or SOCI 1113, junior standing or permission of the department.

4163 HEALTHY AGING, 3 hours credit
Emphasis on demographic changes due to longevity; differences between aging and illness; and effects of aging that may be reversible. Prerequisite: FAMS 1123, junior standing or permission of the department.

4173 FUNCTIONAL FAMILY SYSTEMS, 3 hours credit
Emphasizes the family unit as a communicational, instructional, and interactional system. Prerequisite: FAMS 1123, junior standing or permission of the department.

4801-4 FIELD EXPERIENCE IN FAMILY SCIENCE, 1-4 hours credit
Supervised study and/or work experience in the field relating to the student's special interest or area of concentration. Prerequisite: permission of the department.

4881-4 INDEPENDENT STUDY IN FAMILY SCIENCE, 1-4 hours credit
Directed research and intensive study on selected problems or special topics. No more than four credit hours of independent study may be counted toward the requirements for a major in the department. Prerequisite: permission of the department.

4901-3 SEMINAR IN FAMILY SCIENCE, 1-3 hours credit
A course designed to meet the special needs within the department. May be repeated with a different topic for a total of 6 hours. Prerequisite: permission of the department.

FOOD AND NUTRITION SCIENCES COURSES (FNS)

1343* BASIC NUTRITION, 3 hours credit
Introduction to the science of human nutrition through an analysis of the nutrient content of food and the relationship of nutrients to health and disease. Lecture 3 hours.

3313 NUTRITION IN THE LIFE CYCLE, 3 hours credit
Study includes the physiological, biochemical, and sociological factors affecting nutrient requirements over the life span; emphasis on practical application of nutrition concepts and appropriate food selections to meet nutrient needs. Lecture 3 hours. Prerequisite: FNS 1343.

* Liberal arts and sciences course.

PSYCHOLOGY COURSES (PSY)

1113* GENERAL PSYCHOLOGY, 3 hours credit
A study of the basic facts and principles of behavior. Lecture 3 hours.

2001-3* SELECTED TOPICS IN PSYCHOLOGY, 1-3 hours credit
Contemporary and historical concerns of Psychology are explored. A different topic may be presented each semester. Lecture 3 hours. Prerequisite: PSY 1113.

2113* HISTORY OF PSYCHOLOGY, 3 hours credit
A study of modern psychology as a science with emphasis on past and present schools of psychological thought. Lecture 3 hours. Prerequisite: PSY 1113.

2223* APPLIED PSYCHOLOGY, 3 hours credit
Psychological principles in relation to problems of Business, Industry, Education, Mental Health, or other human enterprises. Lecture 3 hours. Prerequisite: PSY 1113.

2323* SENSATION AND PERCEPTION, 3 hours credit
A survey of the biological properties of sensory systems and major phenomena in sensation and perception (e.g., adaptation, brightness, color and binocular vision, audition, taste, touch, imagery, individual differences, time and motion, attention and theories of psychophysical judgment including STD and classical). Prerequisite: PSY 1113.

2373* INTRODUCTION TO HEALTH PSYCHOLOGY, 3 hours credit
Comprehensive inquiry focusing on the branch of psychology that concerns individual behaviors and lifestyles affecting a person’s physical health. Professional issues, gender and cultural issues, within an application orientation include: enhancement of health, the prevention and treatment of disease, the identification of health risk factors, the improvement of the health care system and the shaping of public opinion with regard to health. Lecture 3 hours. Prerequisite: PSY 1113.

3313* COGNITIVE PSYCHOLOGY, 3 hours credit
Examine cognition involving language, thinking, problem solving, memory, intelligence, and categorization. Prerequisite: PSY 1113.

3333 COUNSELING AND CLINICAL PSYCHOLOGY, 3 hours credit
A description of the professional life of a counseling or clinical psychologist including the history, description, duties, ethics, skills, and training required. Prerequisite: PSY 1113.
3353* LIFESPAN HUMAN GROWTH AND DEVELOPMENT, 3 hours credit
Survey of the psychological changes across the life span. Cognitive, social, emotional, and physical changes from birth to death will be examined. Prerequisite: PSY 1113.

3383* SOCIAL PSYCHOLOGY, 3 hours credit
The study of human behavior as affected by social stimuli. Prerequisite: PSY 1113.

3413* PSYCHOLOGY OF LEARNING, 3 hours credit
Investigations into the processes of learning in humans and animals. Emphasis is given to behavioral and cognitive approaches. Lecture 3 hours. Prerequisite: PSY 1113.

3423 APPLIED QUANTITATIVE METHODS, 3 hours credit
A strong emphasis will be placed on inferential procedures used in published articles in psychological journals. Topics include correlational testing, linear regression, simple and factorial ANOVAs, tests for outliers, normalcy, randomness, heterogeneity of variance, and post-hoc analysis. Lecture 3 hours. Prerequisites: PSY 1113 and MATH 1513.

3431 PSYCHOLOGICAL TESTING, 3 hours credit
Principles, practices and procedures of psychological testing are examined. Attention is given to construction, validation and interpretation of measuring instruments in the fields of personality, intelligence, aptitudes and attitudes. Lecture 3 hours. Prerequisites: PSY 1113 and PSY 3423.

4363* ABNORMAL PSYCHOLOGY, 3 hours credit
The study of various abnormalities as described in DSM. Prerequisite: PSY 1113.

4393* PERSONALITY, 3 hours credit
Factors determining and affecting personality, its development and assessment. Lecture 3 hours. Prerequisite: PSY 1113.

4423 EXPERIMENTAL PSYCHOLOGY, 3 hours credit
Studies in the major designs, methods employed and problems in conducting experiments in psychological research. Lecture 3 hours. Prerequisites: PSY 1113 and PSY 3423.

4433 PSYCHOLOGICAL RESEARCH, 3 hours credit
Students will design and conduct a psychological research project of sufficient quality for conference presentation. Material covered will include APA format research ethics, data analysis and conference presentation preparation. Lecture 3 hours. Prerequisites: PSY 1113 and PSY 4423.

4443* BIOPSYCHOLOGY, 3 hours credit
Explains behavior in terms of the physiological events inside the body with emphasis on vision, audition, psychoactive drugs, eating, sex, and sleep. Lecture 3 hours. Prerequisite: PSY 1113.

4453 PROFESSIONAL RESEARCH IN PSYCHOLOGY, 3 hours credit
Students will work individually with a department faculty member to develop and present a psychological research project of professional quality. The presentation will take place as a conference paper, conference poster, or by submission of a manuscript to a peer-reviewed psychological journal. Prerequisite: PSY 4423.

* Liberal arts and sciences course

SCHOOL OF LIBERAL ARTS
Von Underwood - Dean

DEPARTMENT OF ART
Edna McMillan, Chair

DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES
Margery Kingsley, Chair

DEPARTMENT OF COMMUNICATION
Tony Allison, Chair

DEPARTMENT OF CRIMINAL JUSTICE AND SOCIOLOGY
Jonathan Odo, Chair

DEPARTMENT OF HISTORY AND GOVERNMENT
Lance Janda, Chair

DEPARTMENT OF MUSIC
James Lambert, Chair

DEPARTMENT OF THEATRE ARTS
Scott Richard Klein, Chair

The School of Liberal Arts offers associate and baccalaureate programs as well as graduate courses in the fine arts, humanities, and social sciences. Courses in these areas are also offered in support of general education. An associate degree program is offered in criminal justice. Programs leading to baccalaureate degrees are offered in art, communication, English, English education, history, international languages, romance language education, music, criminal justice, sociology, social studies education, political science, and theatre arts.

Liberal Arts students and faculty engage in scholarship and produce concerts, recitals, theatre productions, art exhibits, lectures, symposia, camps, and public forums which enrich the intellectual and cultural lives of our students and the citizens residing in our service area.
DEPARTMENT OF ART

Chair - Edna McMillan, Associate Professor
Professors: Liontas-Warren, B. Warren
Assistant Professors: Baker, Linehan

The mission of the Department of Art is to support and enhance the University’s educational process by offering learning opportunities in art to the people of Southwest Oklahoma through appropriate degree programs and concomitant service curricula and activities.

The Department of Art offers a program leading to a Bachelor of Arts Degree with a major in art and a program leading to a Bachelor of Fine Arts Degree.

BACHELOR OF ARTS DEGREE
MAJOR IN ART (110)

The mission of the Bachelor of Arts degree program in Art is to prepare students for entry into a number of art related professions or endeavors by completing a broad, yet organized, curriculum in both art history and studio related courses.

I. GENERAL EDUCATION REQUIREMENTS ........................................... 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ............................................................ 48 hours
    ART 1113, ART 1123, ART 1213, ART 1223, ART 1231, ART 2243, ART 2313,
    ART 2413, ART 2513, ART 2613, ART 2623, ART 3133 or ART 4143, ART 4633,
    ART 4991
    Electives in Advanced Studio Courses ........................................... 10 hours

III. MINOR ............................................................ 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
   B.A. students must have 80 hours of Liberal Arts and Science courses.

BACHELOR OF FINE ARTS
IN STUDIO ARTS DEGREE (111)

The mission of the Bachelor of Fine Arts degree program in Art is to prepare students for entry into graduate school or a number of art related professions or endeavors by providing learning opportunities that lead to the completion of a specialized curriculum in one of several studio areas: Painting, Printmaking, Sculpture or Graphic Design.

Students seeking admission to the B.F.A. Program must pass an entrance examination.

I. GENERAL EDUCATION REQUIREMENTS ........................................... 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ............................................................ 70 hours
    ART 1113, ART 1123, ART 1213, ART 1223, ART 1231, ART 2243, ART 2313,
    ART 2413, ART 2513, ART 2613, ART 2623, ART 3133, ART 4143,
    ART 4633 (6 hours), ART 4991
    Advanced Studio Concentration .................................................... 18 hours
    Electives in Advanced Studio Courses ........................................... 8 hours

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
    B.F.A. students must have 40 hours of Liberal Arts and Sciences Courses.

ART COURSES (ART)

1013* ART APPRECIATION, 3 hours credit
An introduction to various aspects of the visual arts with illustrated lectures and studio demonstrations. Lecture 3 hours.

1023* FUNDAMENTALS OF ART, 3 hours credit
An introduction to art through studio experience for non-majors. Studio 6 hours.

1031-3 WORKSHOP, 1-3 hours credit
A concentrated course of specific exploration at the introductory level of various art forms, designed to provide intensive experience in studio projects. May be repeated for credit under different subtitle. No more than 4 hours of ART 1031-3 may be credited toward a major/minor in Art. Studio 2-6 hours.

1113* DRAWING I, 3 hours credit
Introduction to the basic principles, techniques and media of drawing/perception. Studio 6 hours.

1123 DRAWING II, 3 hours credit
Drawing experiences that coordinate drawing skills with perception and creativity. Studio 6 hours. Prerequisite: ART 1113.

1213* DESIGN I, 3 hours credit
An introductory class concentrating on two and three dimensional forms which emphasizes design elements and their organizational principles. Studio 6 hours.

1223 DESIGN II, 3 hours credit
Application and analysis of three-dimensional elements and principles of design. Studio 6 hours. Prerequisite: ART 1213.

1231 COMPUTER-STUDIO LAB, 1 hour credit
An introduction to computer graphics and appropriate software for use in foundation studio art courses. For Art majors only. Prerequisite: concurrent enrollment in ART 1113 and/or ART 1213 or permission of the Chair. Studio 2 hours.

2243* COLOR, 3 hours credit
Exploration and analysis of color. Studio 6 hours.

2253 COMPUTER GRAPHIC DESIGN, 3 hours credit
An introduction to the processes of creatively translating concepts from words to effective visual communication through graphic design, layout, and technical illustration. Studio 6 hours. Prerequisite ART 1213.

2313 PAINTING, 3 hours credit
Painting courses exploring the principles, techniques, media and creative potential of painting. Studio 6 hours. May be repeated for credit under a different subtitle.
2413 PRINTMAKING, 3 hours credit
An introduction to various basic printmaking processes: collagraphs, monoprints, intaglio, serigraphy, lithography, relief printing. Studio 6 hours. Prerequisite: ART 1113.

2513 SCULPTURE, 3 hours credit
A beginning class that emphasizes sculptural form and aesthetics through various media and techniques. Studio 6 hours. Prerequisite: ART 1213.

2613* HISTORY OF ART I, 3 hours credit
A survey of the painting, sculpture and architecture from prehistoric times through the Gothic period. Lecture 3 hours.

2623 HISTORY OF ART II, 3 hours credit
A survey of the painting, sculpture and architecture from the Renaissance through the 20th Century. Lecture 3 hours.

2733 ILLUSTRATION, 3 hours credit
Introduction to historic and contemporary illustration and consideration of a wide range of illustrative styles. Required experiments with media and consideration of alternate ways of illustrating a message through conceptual and compositional variations. Studio 6 hours. Prerequisites: ART 1113 and ART 1213.

2743 TYPOGRAPHY, 3 hours credit
An investigation of letter forms and their characteristics and a study of spacing, leading, type selection, layout alternatives, type specification and copy fitting. Preliminary introduction to typography as a communication medium. An understanding to typographic terminology and measuring systems while developing hand skills and introducing computer technology. Studio 6 hours. Prerequisites: ART 1113, ART 1123 and ART 1213.

2813 BEGINNING CERAMICS, 3 hours credit
Introduction to ceramic techniques, with focus on exploration, ideas, and the aesthetics of form. Studio 6 hours.

3133 FIGURE DRAWING, 3 hours credit
A studio course emphasizing drawing concepts and techniques. Studio 6 hours. Prerequisite: ART 1113.

3213 GRAPHIC DESIGN, 3 hours credit
Exploration of basic design principles - line, form and color, as visual communication. Problem solving, generation of ideas, development of concepts and the integration of word and image. Technical and presentation skills. Studio 6 hours. Prerequisite: ART 2253.

3713 ART FOR ELEMENTARY TEACHERS, 3 hours credit
Lecture and laboratory experience in two and three dimensional media designed for the understanding and application of art as an element of the elementary curriculum. Lecture/studio 3 hours.

3723 PUBLIC SCHOOL ART, 3 hours credit
Elementary and Secondary theory in two and three dimensional media designed for the application and understanding of art as an element of the school curriculum with lecture laboratory and field experience. Teacher Certification students must be admitted to teacher education prior to enrollment. Studio 6 hours.

3743 ADVANCED COMPUTER GRAPHICS AND IMAGE ENHANCEMENT, 3 hours credit
Use of computer software to capture, create and alter electronic images for use in graphic design and illustration applications with an emphasis on concept and thematic development. Skillful production of portfolio pieces via learned software. Studio 6 hours. Prerequisites: ART 2733, ART 3213, Graphic Design majors/consent of instructor.

3753 LAYOUT/PRODUCTION, 3 hours credit
Use of computer and traditional methods to enhance production skills and solution of design projects from concept to the comprehensive. Evaluation and design of symbols and logos and their various applications, leading to an understanding of system design. Introduction to graphic design production and the preparation of art for reproduction. Studio 6 hours. Prerequisites: ART 2253, ART 2743, and ART 3213.

3833 CRAFTS, 3 hours credit
A studio course that relates material to form and function, with an emphasis on one of several materials: weaving, beadwork, textiles, etc. May be repeated under a different subtitle. No more than 6 hours may be counted toward a major in Art. Studio 6 hours.

4143 ADVANCED DRAWING, 3 hours credit
Advanced studio courses exploring the principles, techniques, media and creative potential of drawing. Studio 6 hours. May be repeated for credit under a different subtitle. Prerequisite: ART 1113.

4213 ADVANCED GRAPHIC DESIGN, 3 hours credit
Design problems with special attention to sinage, exhibition design, packaging, display, and point of purchase. Use of model-building tools and study of structure and form to introduce the student to problem-solving and finishing techniques. Development of concepts into models. Studio 6 hours. Prerequisites: Art Foundation and ART 3213 and ART 3743.

4323 ADVANCED PAINTING, 3 hours credit
Advanced studio courses in a variety of painting techniques which may include incursions of other media such as photography and print. May be repeated for credit under a different subtitle. Studio 6 hours. Prerequisite: ART 2313.

4423 ADVANCED PRINTMAKING, 3 hours credit
Advanced studio course exploring the principles, techniques, media and creative potential of printmaking. Areas of concentration include etching, lithography, serigraphy, block printing, collagraphs. Studio 6 hours. May be repeated for credit under a different subtitle. Prerequisite: ART 2413.

4523 ADVANCED SCULPTURE, 3 hours credit
Advanced studio courses emphasizing personal exploration and involvement with sculptural form and techniques. May be repeated for credit under a different subtitle. Studio 6 hours. Prerequisite: ART 2513.

4633* HISTORY OF ART SEMINAR, 3 hours credit
Advanced Art History courses with an emphasis on one or more of the following areas: Contemporary Art, American Art, Oriental Art, Principles of Art History. May be repeated for credit under a different subtitle. Lecture 3 hours. Prerequisites: ENGL 1213 and 3 hours of History.

4713 HISTORY OF GRAPHIC DESIGN, 3 hours credit
Evolution of graphic communication from prehistoric times to the present. Investigation of the origins of printing and typography in Europe leading to the design of the printed page, the impact of industrial technology upon visual communication and the study of the growth and development of modern graphic design. Lecture 3 hours. Prerequisites: ART 3213, ART 4213, Graphic Design majors or consent of instructor.

4733 ART PORTFOLIO CAPSTONE, 3 hours credit
Final preparation of a professional portfolio, culminating in an extensive design project and the design, organization and production of an exhibition of work. Professional study on setting fees, writing contracts, working with an agent and other business practices. Studio 6 hours. Prerequisites: ART 3213, ART 3743, ART 4213, and ART 4713.

4823 ADVANCED CERAMICS, 3 hours credit
Advanced studio courses in the application of clay techniques emphasizing the aesthetics of form. Studio 6 hours. Prerequisite: ART 2813. May be repeated for credit under a different subtitle.
4911-4 WORKSHOP, 1-4 hours credit
A concentrated course of specific exploration of various art forms, designed to provide intensive experience in studio projects. May be repeated for credit under different subtitle. No more than 6 hours of ART 4911-4 may be credited toward a major in Art. Studio 2-8 hours.

4921-3* INDEPENDENT STUDY, 1-3 hours credit
Independent study and guided research in a selected area of Art. May be repeated for credit. Prerequisite: permission of the Chair.

4991 SENIOR ART EXHIBITION, 1 hour credit
A capstone course that emphasizes the development and documentation of professional credentials and culminates in a final exhibition of art. Lecture 1 hour.

4933 SENIOR ART STUDIO, 3 hours credit
Senior level art experience in a major studio area. May be repeated for credit. Studio 6 hours, as assigned by department chairman. Prerequisites: senior standing in Art and permission of the Chair.

* Liberal arts and sciences course.

DEPARTMENT OF COMMUNICATION
Chair - Tony Allison, Associate Professor
Professor: Jenkins
Associate Professors: Heflin, Hernandez, Keller, Price
Assistant Professors: Adams, Crandon, Walton
Instructor: Schabot

The Department of Communication offers a program leading to a Bachelor of Arts degree with a major in Communication.

The mission of the Communication program is to support Cameron University’s mission of offering educational programs to the people of southwest Oklahoma by offering learning opportunities that develop students’ intellectual capacities as well as preparing students for entry into graduate school or a number of communication-related professions. The Bachelor of Arts in Communication attempts to balance theory and performance-based skills in four areas of concentration: speech communication, radio/television, public relations and organizational communication. As the four areas demonstrate, the disciplinary perspective of the Communication program tends to be centered in all areas of oral and mass communication. Major activities of the department include: CUTV, KCCU, broadcast contests, The Cameron Collegian (weekly campus newspaper) Speech and Debate Team, Summer Speech-Debate Camp, and high school Speech Demonstration Day. Five student organizations in the department are: Broadcast Club, Lambda Pi Eta, Pi Kappa Delta, Society for Professional Journalism and Public Relations Student Society. (See Communication Department’s web pages www.cameron.edu)

BACHELOR OF ARTS DEGREE
MAJOR IN COMMUNICATION (140)

I. GENERAL EDUCATION REQUIREMENT .................................................. 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 42 hours
   All communication majors are required to keep a portfolio of their work.
   (See advisor for details.)

   Required Core Courses .................................................. 12 hours
   RTV 1013, JOUR 2113, COMM 3393, COMM 3383 or PBRL 3113

   Concentration .......................................................... 30 hours
   Majors must choose one or more of the following concentrations: Speech Communication, Radio/Television, Journalism, Public Relations or Organizational Communication.

   Speech Communication
   Required Courses: COMM 1133, COMM 2313, COMM 3313, COMM 3633, COMM 3713, COMM 4623.
   Electives (12 hours) may be chosen from the following courses or from courses in the areas of Radio/Television; Journalism; and Public Relations and Organizational Communication: COMM 2143, COMM 2533, COMM 2593, COMM 3103, COMM 3113, COMM 3121-4, COMM 3353, COMM 3643, COMM 3833, COMM 3991-3, COMM 4773, COMM 4991-3.
Radio/Television
Required Courses: RTV 2213, RTV 2313, RTV 3123, RTV 3323, RTV 3513, RTV 3911-2
(RTV 3911-2 Broadcast Lab 3 hours required).
Electives (12 hours) may be chosen from the following courses or from courses in the areas of
Speech Communication; Journalism; and Public Relations & Organizational Communication: RTV
2113, RTV 3223, RTV 3353, RTV 3413, RTV 3913-3, RTV 4133, RTV 4333, RTV 4433, RTV
4923, RTV 4941-3, JOUR 4813.
Radio/Television students may select three hours of their electives from the following:
THTR 1203, THTR 3303, THTR 3703.

Journalism
Required Courses: JOUR 3013, JOUR 3043, JOUR 3133, JOUR 3343, JOUR 4133, JOUR 4813.
Electives (12 hours) may be chosen from the following courses or from courses in the areas of
Speech Communication; Radio/Television; and Journalism: JOUR 3323, JOUR 3991-3, JOUR 4213,
JOUR 4803, JOUR 4963, JOUR 4981-3, ART 1113, ART 1213, MM 1133, RTV 3413.

Public Relations and Organizational Communication
Required Courses: COMM 3383 and PBRL 3113, JOUR 3013, JOUR 3043, COMM 3313, JOUR
3343, COMM 3633
Electives (12 hours) may be chosen from any following courses or from courses in the areas of
Speech Communication; Radio/Television; and Public Relations & Organizational Communication
JOUR 3233, JOUR 3991-3, JOUR 4213, JOUR 4803, JOUR 4963, JOUR 4981-3, ART 1113, ART
1213, MM 1133, RTV 3413.

III. MINOR ................................................................. 18 hours
Students may choose another area of concentration for a minor or may choose a minor in another
discipline.

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

COMMUNICATION COURSES (COMM)

1113* FUNDAMENTALS OF SPEECH, 3 hours credit
An introductory course designed to acquaint the student with the basic theory of the art of public speaking
and listening. The course provides experience in the composition and delivery of oral presentations in a
multi-cultural world. Topics include speech organization, forms of supporting materials, audience analysis,
and critical evaluation of speeches. Lecture 3 hours.

1133* VOICE AND DICTION, 3 hours credit
A general study of the structure of the vocal mechanism; principles of vocal quality, articulation and
pronunciation. Lecture 3 hours.

2143* DEBATE, 3 hours credit
Acquaints the student with the complexity of social problems, methods of research, methods of logical
analysis and development, construction of briefs, and techniques of refutation; practice in preparation and
delivery of sustained arguments. Lecture 3 hours.

2313* SMALL GROUP COMMUNICATION, 3 hours credit
A systems based approach to the study of group communication. Social bases of group development and
dynamics, including norms, leadership, role structures, conflict, and social climates. Special consideration
given to methods of group participation and decision-making. Lecture 3 hours.

2533* ORAL INTERPRETATION, 3 hours credit
A beginning study and practice in oral reading of literature, with emphasis on the oral expression of logical
and emotional meaning in literature, and the selection of material. Lecture 3 hours.

2593* COMMUNICATION RESEARCH, 3 hours credit
Basic quantitative and qualitative research methods used in communication, journalism, broadcasting and
public relations. Focus on researching public opinion and communication behaviors using experimental,
survey, critical, and ethnographic designs. Includes hypothesis construction, empiricism, and data gathering
techniques. Lecture 3 hours. Prerequisites: MATH 1513 or MATH 1813, ENGL 1113, and ENGL 1213.

3103* LISTENING, 3 hours credit
A study in the qualities of good listening for personal and organizational communication effectiveness.
Performance exercises are used as teaching tools to improve skills. Lecture 3 hours.

3113* ARGUMENTATION AND ADVOCACY, 3 hours credit
Nature of argumentative controversy: studies in analysis, evidence, reasoning, and refutation; variables of
form and methods. Lecture 3 hours.

3121-4 FORENSIC LAB, 1-4 hours credit
Preparation for the participation in intercollegiate forensics and competitive speech activities including
debate, discussion, original oratory, extemporaneous and impromptu speaking and oral interpretation. May
be repeated. Prerequisite: departmental permission.

3133* ADVANCED BUSINESS AND PROFESSIONAL SPEAKING, 3 hours credit
Emphasis is placed on both theory and application of public speaking, speech criticism, and listening skills
in culturally diverse business and professional settings. Students will employ presentation software when
delivering a variety of business presentations such as informative, after dinner, persuasive, sales, and team
speeches. Lecture 3 hours. Prerequisite: COMM 1113 or departmental permission.

3353* TEAM LEADERSHIP PROCESSES, 3 credit hours
Designed to enhance leadership skills and the knowledge of team leadership processes. Topics include the
attributes of teams, critical evaluation of information and reasoning processes, creation of effective work
climates, and contemporary approaches to leadership. The objective of this course is to learn how to provide
leadership in the communication process of work teams. Lecture 3 hours.

3383* CORPORATE AND ORGANIZATIONAL COMMUNICATION, 3 credit hours
The theory and function of communication within businesses, government, hospitals, schools, industrial
firms, and other organizations with emphasis on concepts and principles needed for effective communication.
Lecture 3 hours.

3393* INTERPERSONAL COMMUNICATION, 3 credit hours
Improving communication between persons. Discovering and overcoming obstacles in person-to-person
communication. Self-awareness of the student’s own communication behavior as well as that of others.
Projects in listening, speaking and communicating nonverbally. Lecture 3 hours.

3633* PERSUASION, 3 hours credit
A study of persuasive communication, including social, psychological, and rhetorical theories of human
motivation; audience analysis, methods of adaptation; emotional, logical and rhetorical appeals; analysis of
persuasive premises in advertising, social and political campaigns; and special emphasis on ethical
responsibilities of the speaker, media, and listener. Lecture 3 hours.

3643* POLITICAL COMMUNICATION ANALYSIS, 3 hours credit
Principles and methods of critical analysis will be examined, both historical and contemporary. Students will
interpret and evaluate political persuasion. Emphasis will be given to speeches, campaigns, and movements.
Lecture 3 hours.
3713* INTERCULTURAL COMMUNICATION, 3 hours credit
Students will analyze the basic elements of culture and how those elements interact with the communication process to affect relationships. Lecture 3 hours. Prerequisite: COMM 1113.

3833* CONFLICT MANAGEMENT, 3 hours credit
An analysis of conflict situations in personal, professional, and cultural contexts. Role of communication in creating, expressing, and influencing conflict messages and behaviors. Topics include theories of conflict, cooperative processes, dialogue, mediation, interpersonal barriers and power. Lecture 3 hours.

3991-3 WORKSHOP, 1-3 hours credit
Workshop designed to give intensive emphasis to a specific area of communication. May be repeated with a different topic for additional credit up to a maximum of six hours. Communication majors can count only three hours of workshop in any communication area toward the communication degree.

4623* COMMUNICATION THEORY, 3 hours credit
Advanced survey of major philosophical and theoretical issues in human communication research. Discussion of social scientific and humanistic perspectives, research methods, and theory development. Analysis and critique of contemporary theories in the field. Lecture 3 hours. Prerequisite: 9 hours of communication courses or instructor permission.

4723 ORGANIZATIONAL COMMUNICATION INTERNSHIP, 3 credit hours
Supervised work experience in a professional setting which relates to the student’s career objectives. The internship will allow practical experience in corporate and organizational communication. May be repeated for a maximum of six hours. Prerequisites: upper-division standing and department permission.

4991-3* SPECIAL TOPICS, 1-3 hours credit
Directed individual or group study of selected topic(s) in communication. The course may be repeated for a total of six hours. Prerequisite: junior standing.

JOURNALISM COURSES (JOUR)

2113* INTRODUCTION TO JOURNALISM, 3 hours credit
Mass communication and the importance of the media’s role in American society. Lecture 3 hours, Co-requisite: ENGL 1113 or ENGL 1123.

3013* NEWS WRITING, 3 hours credit
A concentrated study of the techniques of obtaining and writing news that focuses on interpretive reporting, in-depth interviewing, reporting and writing. Students will work directly to support The Cameron Collegian. Lecture 3 hours, Prerequisite: JOUR 2113.

3043* PHOTOJOURNALISM I, 3 hours credit
The study of the principles and techniques of photography with an emphasis on composition and design. Students will learn and use digital darkroom techniques with the use of scanning software and image editing software. Lecture 3 hours.

3133 NEWSPAPER REPORTING, 3 hours credit
A laboratory for students to expand the techniques developed in News Writing (JOUR 3013). Students will work directly to produce The Cameron Collegian. Laboratory 6 hours. Prerequisite: JOUR 3013.

3233 ADVANCED NEWSPAPER REPORTING AND DESIGN, 3 credit hours
A laboratory for students to continue to expand the techniques developed in News Writing (JOUR 3013) and Newspaper Reporting (JOUR 3133). Advanced Newspaper Reporting and Design will also provide students the opportunity to directly help design and produce The Cameron Collegian. Laboratory 6 hours. Prerequisites: JOUR 3013, JOUR 3133, JOUR 3043 and JOUR 3343.

3343* MEDIA GRAPHICS, 3 hours credit
Explores techniques, processes, and procedures for the publication of print media with an emphasis on the elements of design using the pagination program InDesign and the image editing software Adobe Photoshop. Lecture 3 hours.

3991-3 WORKSHOP, 1-3 hours credit
A workshop designed to give intensive emphasis to a specific area of journalism. May be repeated with a different topic for additional credit to a maximum of six hours. Communication majors can count only three hours of workshop in any area of communication toward the communication degree.

4133 NEWS EDITING, 3 hours credit
Study of editing and makeup techniques required in newspaper and magazine fields. Lecture 3 hours. Prerequisite: JOUR 2113.

4213 PHOTOJOURNALISM II, 3 hours credit
The continued study of the principles of photography with an emphasis on composition and design. Students will continue to employ digital darkroom techniques in coordination with various modes of expression: print, video and online. Lecture 3 hours. Prerequisite: JOUR 3043 or instructor’s permission.

4223 PRINCIPLES OF PUBLIC RELATIONS, 3 hours credit
Study of the current concepts of public relations as a management function in business, industry, government, and education. Practice work in producing public relations tools. Prerequisite: junior standing.

4803* MASS MEDIA HISTORY, 3 hours credit
European background and development of the colonial press. Emergence of the partisan and penny newspapers. Evolution of personal and independent Journalism. Lecture 3 hours. Prerequisite: 12 hours of Journalism or permission of the instructor.

4813 MASS MEDIA LAW, 3 hours credit
The principles by which mass media exercise their public functions and fulfill legal obligations to society. Right to know, truth and fairness, responsibility, libel, privilege, fair comment, privacy, contempt, copyright, and regulation of advertising. Lecture 3 hours. Prerequisite: JOUR 2113 and junior standing.

4963 JOURNALISM INTERNSHIP, 3 hours credit
Field experience in Journalism under close supervision of employer and professor. Lecture 3 hours. Prerequisite: 12 hours of Journalism or permission of the instructor.

4981-3* SPECIAL TOPICS, 1-3 hours credit
Directed individual or group study of selected topic(s) in journalism. The course may be repeated for additional credit with departmental permission. May be repeated for a total of 6 hours. Prerequisite: junior standing.

PUBLIC RELATIONS COURSES (PBRL)

3113* PRINCIPLES OF PUBLIC RELATIONS, 3 hours credit
An introduction to the history, development, and ethical practice of public relations as relationship management between an organization and its public. Emphasis on building a philosophical foundation for the practice of advocacy through public relations. Lecture 3 hours. Prerequisite: junior standing.

3213* PUBLIC RELATIONS WRITING AND PRODUCTION, 3 hours credit
Study and application of current trends and best practices in public relations. Includes instruction in communication methods and tactics, with emphasis on the production and dissemination of strategic communication messages. Lecture 3 hours. Prerequisites: JOUR 3013 and PBRL 3113.
3941-3 WORKSHOP, 1-3 hours credit
Public relations workshop designed to give intensive emphasis to a specific area of the profession. May be repeated with a different topic for a total of 6 credit hours.

4413* PUBLIC RELATIONS ETHICS, 3 hours credit
This course explores the nature of public relations from an ethical and philosophical perspective, including ethical decision making in public relations, truth telling, objectivity, and the justification of persuasion use in the marketplace of ideas. Themes of responsible advocacy and representation in the "Courts of Public Opinion" will underscore the course. Lecture 3 hours. Prerequisite: PBRL 3113.

4823 CASE STUDIES IN PUBLIC RELATIONS, 3 hours credit
Detailed analysis of current case studies in the planning and execution of public relations activities. Emphasis given to fact-finding, researching audiences, setting objectives, charting programs, execution, and evaluation. Lecture 3 hours. Prerequisite: PBRL 3113.

4931-3* SPECIAL TOPICS, 1 to 3 hours credit
Directed individual or group study of selected topic(s) in public relations. Course may be repeated for a total of up to six credit hours. Prerequisite: junior standing.

4973 PUBLIC RELATIONS INTERNSHIP, 3 hours credit
Field experience in public relations in organizations, business, and industry. Prerequisite: 12 hours of Journalism and public relations or permission of the instructor.

**RADIO/TELEVISION COURSES (RTV)**

1013* FUNDAMENTALS OF BROADCASTING, 3 hours credit
Survey of components of broadcasting and other electronic media systems in America, including technical aspects, history, legal and social issues. Lecture 3 hours.

2104* AUDIO AND VISUAL PRODUCTION, 4 hours credit
Production of audio and visual support and layout for multimedia. Not applicable for Communications majors with RTV concentration or RTV minors. Lecture 3 hours, laboratory 3 hours. Prerequisite: MM 1133.

2113 BROADCAST ANNC/PROD, 3 hours credit
A course designed to meet specific needs of the radio-television announcer; instruction includes drills to develop effective vocal communications as a means of improving radio-television presentation and delivery. Lecture 2 hours, laboratory 3 hours.

2213* BASIC RADIO PRODUCTION, 3 hours credit
Introduction to equipment and various aspects of radio station operation. Including: air-checks, commercial production and news. Lecture 3 hours, laboratory.

2313* BASIC TELEVISION PRODUCTION, 3 hours credit
An introduction to the basic principles, procedures, and techniques of television production. The course includes video control, special effects, operation of cameras and editing machines, composition, lighting, staging, and directing, on-camera announcing and interviewing. Lecture 2 hours, laboratory 3 hours.

3123* BROADCAST PROGRAMS AND RATINGS, 3 hours credit
Principles governing the selection of programs; preparation of broadcast schedules; and audience measurements. Focus will include program types, rating systems, program and audience analysis in radio, television and cable. Lecture 2 hours, laboratory 3 hours.

3223 ADVANCED RADIO PRODUCTION, 3 hours credit
Theory and practice in the operation of advanced audio recording, and sound creation, and transmission equipment. Lecture 2 hours, laboratory 2 hours. Prerequisite: RTV 2213 or department permission.

3223* TV FIELD PRODUCTION AND EDITING, 3 hours credit
Advanced techniques in field production for commercial and industrial television. Emphasis will be given to pre- and post-production stages, as well as training for independent assignments and "electronic news gathering." Lecture 3 hours, laboratory 2 hours. Prerequisite: RTV 2313.

3353 PRODUCING THE DOCUMENTARY, 3 hours credit
Preparation for the participation in all phases of documentary production. The course will function as a team process with students participating in one or many aspects of the production. May be repeated for a maximum of six hours. Laboratory 6 hours. Prerequisite: instructor permission.

3413* BROADCAST NEWS, 3 hours credit
Theories and practices of broadcast news gathering, writing and delivery to develop professional attitude and skills in radio and television news. Lecture 3 hours, laboratory 2 hours. Prerequisite: RTV 1013.

3513* BROADCAST WRITING, 3 hours credit
Concept and practices of writing for radio and television. Emphasis on writing commercial copy, public service announcements and broadcast news. Lecture 2 hours, laboratory 2 hours. Prerequisites: RTV 1013 and proficiency in typing.

3911-2 BROADCAST LAB, 1-2 hours credit
Preparation for and participation in all phases of radio and television; may be repeated. Prerequisite: department permission.

3931-3 WORKSHOP, 1-3 credit hours
Preparation for the participation in all phases of documentary production. May be repeated with a different topic for additional credit up to a maximum of six hours. Communication majors can count only three hours of workshop in any communication area toward the communication degree.

4133* BROADCAST MANAGEMENT, 3 hours credit
Intensive investigations into station management functions, advertising and sales, network and labor relations, internal organizational structures, operational procedures, budget planning, and government regulations. Lecture 3 hours.

4333* CORPORATE VIDEO, 3 hours credit
Theory and uses of video in business and industry including writing, planning, and production, as well as television programs for instructional and corporate applications. Lecture 2 hours, laboratory 3 hours. Prerequisite: RTV 2313.

4343* GRAPHICS FOR VIDEO PRODUCTION, 3 hours credit
An examination of the principles, procedures, and techniques used in creating graphics for video production. While special emphasis is placed on graphics creation for the television medium, students will explore the use of graphics for non-broadcast applications such as distance or adaptive learning. Lecture 2 hours, laboratory 3 hours. Prerequisites: RTV 2313 and RTV 3323.

4923 RADIO/TELEVISION INTERNSHIP, 3 hours credit
Supervised work experience in a professional setting which relates to the student's career objectives. The internship will allow practical experience in radio/television. May be repeated for a maximum of six hours. Prerequisites: Upper division standing and department permission.

4941-3* SPECIAL TOPICS, 1-3 hours credit
Directed individual or group study of selectee topic(s) in broadcasting. The course may be repeated for credit up to 6 hours. Prerequisite: junior standing.

* Liberal arts and sciences course.
DEPARTMENT OF
CRIMINAL JUSTICE AND SOCIOLOGY

Chair - Jonathan Odo, Associate Professor
Professor: Bausch
Associate Professors: Lee
Assistant Professors: Cruz, Dudash, Ford, Kervin, Kwenda, Wagner
Advisor: Hrnciar

The Department of Criminal Justice and Sociology offers programs leading to a Bachelor of Science degree with a major in Criminal Justice, a Bachelor of Science degree with a major in Sociology, and an Associate Degree in Applied Science in Criminal Justice. The Department also offers minors in Corrections, Law Enforcement, Criminal Justice and Sociology.

BACHELOR OF SCIENCE DEGREE
MAJOR IN CRIMINAL JUSTICE (580)

The study of criminal justice encompasses the policies of the criminal justice system, behavioral characteristics of victims, offenders, and practitioners, and the legal framework within which each operates. The department, through the criminal justice curriculum, provides instruction to students interested in careers in law enforcement, corrections, and associated fields as well as to students interested in graduate school or law school.

I. GENERAL EDUCATION REQUIREMENT ........................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ............................................................................. 39 hours
   Required Core Courses ....................................................... 24 hours
   CJ 1013, CJ 1033, CJ 1113, CJ 2033, CJ 3003, CJ 3023, CJ 3053, and CJ 4133
   Support Courses ................................................................. 15 hours
   At least 9 of these hours must be upper division Criminal Justice courses.
   The remaining 6 hours may be upper division Criminal Justice courses, or they may be any other upper division hours. Departmental approval is required for use of lower division hours.

III. MINOR ............................................................................. 18 hours
   (An Associate Degree in Applied Science in Criminal Justice or an equivalent associate degree may be used to satisfy the requirements for a minor. Otherwise, courses used to satisfy major requirements may not be used to satisfy minor requirements.)

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION
   Please Note: A student must complete at least 40 hours of upper division courses.

V. Required assessment exam taken prior to graduation.

BACHELOR OF SCIENCE DEGREE
MAJOR IN SOCIOLOGY (180)

Sociology is the study of social institutions, social change, and the causes and consequences of human behavior. Sociologists study a broad range of topics, in addition to the dimensions of race, class, and gender and their impact upon the lives of people. Students who major in sociology learn to apply research skills and theoretical knowledge to understanding the challenging issues of our times. Sociology graduates may find employment in the fields of social services, business, criminal justice, health services, government services, and teaching.

I. GENERAL EDUCATION REQUIREMENT ........................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ............................................................................. 36 hours
   Required Courses ................................................................. 15 hours
   SOCI 1113, SOCI 2013, SOCI 2223, SOCI 3123, and SOCI 4213.
   *Sociology majors are required to earn a C or higher in each required course for the major.
   Electives ................................................................. 21 hours
   All courses selected must have Sociology prefixes. A minimum of 25 hours must be 300-4000 level with no more than 6 hours at the 1000-2000 level.

III. MINOR ............................................................................. 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
   Please Note: A student must complete at least 40 hours of upper division courses.

V. Required assessment exam taken prior to graduation.

ASSOCIATE IN APPLIED SCIENCE DEGREE
IN CRIMINAL JUSTICE (550)

The study of criminal justice encompasses the policies and processes of the criminal justice system, behavioral characteristics of victims, offenders and practitioners, and the legal framework within which each operates. The curriculum for this AAS degree focuses particularly upon the operations and impact of law enforcement and corrections within the criminal justice system. Successful completion of this program of study prepares graduates for entry level careers in law enforcement or corrections and/or for more advanced education.

I. GENERAL EDUCATION REQUIREMENT ........................................ 24 hours
   Required Courses ................................................................. 18 hours
   ENGL 1113, ENGL 1213, COMM 1113, PS 1113, HIST 1483 or HIST 1493, SOCI 1113 or PSY 1113
   Approved General Education Electives ......................................... 6 hours
   One mathematics course numbered 1513 or above or a biological or physical science course, and one course from Humanities or Physical Education.

   IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION
       Please Note: A student must complete at least 40 hours of upper division courses.

   V. Required assessment exam taken prior to graduation.
2013 INTRODUCTION TO CORRECTIONS, 3 hours credit
A general introduction to American corrections, including theories of punishment, social systems within correctional institutions, correctional history, contemporary prison issues, juvenile Corrections and community corrections. Lecture 3 hours. Prerequisites: CJ 1013 or concurrent enrollment.

2023* CASE MANAGEMENT, 3 hours credit
This course focuses on the basic principles of case management, including the case manager’s duties and responsibilities, case reports and records, and case management in several types of agencies. The course also includes treatment of issues of confidentiality, human rights, and ethics. Lecture 3 hours.

2043 COUNSELING ADULT AND JUVENILE OFFENDERS, 3 hours credit
Techniques involved in counseling and supervising adult and juvenile offenders. Emphasis is on development of effective communication models and treatment oriented programs for counseling clients in a correctional environment. Focus is on the development of rapport with court directed or court committed adult and juvenile offenders. Lecture 3 hours. Prerequisites: CJ 1013 and PSY 1113.

2053 COMMUNITY CORRECTIONS, 3 hours credit
Role and structure of state pardon and parole boards; options of the governor; legal duties of pardon and parole boards, parole probation officers, rights of inmates to be considered for parole; effects of parole actions on the community; legal limitations placed on parolees, revocation of parole. Lecture 3 hours. Prerequisite: CJ 1013.

CRIMINAL JUSTICE COURSES (CJ)

1013* INTRODUCTION TO CRIMINAL JUSTICE, 3 hours credit
A study of the historical development of the criminal justice system, contemporary agencies, and processes involved in the system. Introduction to the three main components of the criminal justice system: police, courts and corrections. Lecture 3 hours.

1023 COMMUNITY RELATIONS, 3 hours credit
Critical consideration of the criminal justice system's capacity to deal with crime, and its relationship to the citizenry. Emphasis on programs to provide effective community relations. Lecture 3 hours. Prerequisite: CJ 1013.

1033 CRIMINAL LAW, 3 hours credit
A review of substantive criminal law including the classification and definition of crimes and defenses to crimes. Lecture 3 hours.

1113 APPLIED CRIMINOLOGY, 3 hours credit
Applications of criminology in the criminal justice system. An overview of past, present, and future trends in crime causation. Lecture 3 hours. Prerequisite: CJ 1013 or concurrent enrollment.

1131 PREHISTORIC SOCIETIES, 3 hours credit
An introduction to prehistoric social life. A study of the social organization, economic practices, technology, and belief systems of prehistoric people. The course surveys important archeological sites beginning with human origins in Africa, migration into Europe and Asia, and entrance into and occupation of the Western Hemisphere. Lecture 3 hours. Prerequisite: ANTH 1013 or SOC 1013.

4493* SELECTED TOPICS IN CRIMINOLOGY, 3 hours credit
An intensive analysis of a selected cross-cultural issue or special topic in anthropology. May include lecture, laboratory, and/or field trips. May be repeated with a different topic for a total of 6 hours credit. Prerequisites: sophomore standing and permission of instructor.

CORRECTIONS COURSES (CORR)

2003 CORRECTIONAL TREATMENT METHODS, 3 hours credit
A study of correctional institutions, methods of correctional treatment and the social services provided to convicted persons and their dependents. An analysis of the criminal behavior that characterizes the different types of offenders. Lecture 3 hours. Prerequisites: CJ 1013 and PSY 1113.
3003* JUVENILE JUSTICE SYSTEM, 3 hours credit
The study of the juvenile justice system in the United States. Juvenile crime, the courts, community services, including prevention and rehabilitation of juveniles. Lecture 3 hours. Prerequisites: CJ 1013, CJ 1033, and CJ 1113.

3013* ORGANIZED AND WHITE COLLAR CRIME, 3 hours credit
A study of organized and white collar crime strategies and techniques used to combat them. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 1033.

3023* VICTIMOLOGY, 3 hours credit
Comprehensive study of victimization; analysis of contemporary victim-assistance and victim compensation programs and related research; review of the historical importance of victim restitution as a basis for punitive criminal law. Lecture 3 hours. Prerequisites: 12 hours of CJ or department permission.

3033* CONCEPTS OF CRIMINAL JUSTICE, 3 hours credit
A study of current and emerging theories and concepts in criminal justice. May be repeated with different topics for a total of 6 hours credit. Lecture 3 hours. Prerequisite: 12 hours of CJ or department permission.

3043 MANAGEMENT OF CORRECTIONAL SYSTEMS, 3 hours credit
The management of correctional systems, public and private. Includes organizational theory supervision, planning, management styles, public relations, security issues, information systems and liability issues in correctional agencies. Lecture 3 hours. Prerequisite: CJ 1013 and CORR 2013 or instructor’s permission.

3053 EVIDENCE, 3 hours credit
A study of the procedures for conducting civil litigation and criminal trials. Lecture 3 hours. Prerequisites: PS 1113, CJ 1113, and CJ 2033.

3723 INTERNSHIP IN CRIMINAL JUSTICE, 3 hours credit
Placement of advanced criminal justice majors in community-based agencies for career development. Involves frequent contact with faculty supervisor and off-campus supervisor evaluation. May be repeated for a total of 6 hours credit. Prerequisites: CJ major, junior standing, and instructor permission.

4023* TERRORISM, 3 hours credit
An analysis of terrorism and how our criminal justice system deals with this problem in both the national and international arenas. Definition, structure, causes, methods and treatment/prevention of terrorism, and coping with hostage situations. Lecture 3 hours. Prerequisite: CJ 1013 or junior standing or department permission.

4133* CRIMINAL JUSTICE ADMINISTRATION, 3 hours credit
The administration of criminal justice agencies. Includes organization theory, supervision, planning, personnel policies, management styles, public relations and budgeting in law enforcement, judicial and corrections agencies. Lecture 3 hours. Prerequisite: CJ 1013 or PS 2713 or junior standing or department permission.

4143 SEXUAL ABUSE AND THE CRIMINAL JUSTICE SYSTEM, 3 hours credit
An examination of the problems of sexual abuse and its treatment by the criminal justice system. Sexual abuse issues including legal definition, causes, identification, prevention/treatment for victims and perpetrators, types and how the criminal justice system responds. Lecture 3 hours. Prerequisite: junior standing or department permission.

4153* DEATH PENALTY, 3 hours credit
An examination of the problems and issues related to the death penalty in the United States, including the history of capital punishment, important Supreme Court decisions, how the various jurisdictions (state, federal and military) deal with the capital cases, the comparative costs of incarceration and execution, miscarriages of justice in capital cases and how the criminal justice responds to these issues. Lecture 3 hours. Prerequisites: junior standing or department permission.

4491-3* SELECTED TOPICS IN CRIMINAL JUSTICE, 1-3 hours credit
An intensive analysis of a selected problem related to criminal behavior and the commission of crime or another special topic in criminal justice. May be repeated with different topics for a total of 6 hours credit. Lecture 1-3 hours. Prerequisite: Junior standing, CJ major or instructor’s permission.

4503* COMPARATIVE CRIMINAL JUSTICE SYSTEMS, 3 hours credit
A comparative study of selected criminal justice systems existing in the world. Lecture 3 hours. Prerequisites: CJ 1013, PS 1113, or junior standing and instructor’s permission.

4591-3* INDEPENDENT STUDY IN CRIMINAL JUSTICE, 1-3 hours credit
Intensive independent reading on or study of a specific criminal justice problem or subject, based on a pre-approved outline or plan, with regular conferences with the instructor and submission of extensive written work. May be repeated with different topics for a total of 6 hours credit. Prerequisites: CJ major, junior standing, and instructor’s permission.

LAW ENFORCEMENT COURSES (LE)

2003 SECURITY CONCEPTS, 3 hours credit
A study of techniques used in providing security to government, industry, business, and private institutions. The functions of criminal justice personnel in crime prevention management. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 1113.

2013 INTRODUCTION TO LAW ENFORCEMENT, 3 hours credit
An introduction to the philosophy and application of law enforcement. An examination of the types and methods of patrol activities and their tactical considerations. The powers and limitations of the law enforcement officer as revealed in case studies and the decision making considerations required by law enforcement officers. Lecture 3 hours.

2043* COMMUNITY POLICING, 3 hours credit
The concept and application of community policing in law enforcement. The course will include a discussion of the role of community involvement, interaction with community organizations, complex problem solving, and effective techniques for the reduction of opportunities for crime. Lecture 3 hours. Prerequisites: CJ 1013 and CJ 1113.

2053 METHODS OF INVESTIGATION I, 3 hours credit
The duties of law enforcement personnel who initially respond to different categories of crime scenes. Specific topics include crime scene protection, interviewing witnesses, and chain of custody issues. Lecture 3 hours. Prerequisites: CJ 1013, CJ 1033 and CJ 1113.

2063 METHODS OF INVESTIGATION II, 3 hours credit
The role of law enforcement personnel in the preparation of a case for presentation in court. Coverage will include successful case management techniques that encompass current and emerging forensic technologies. Lecture 3 hours. Prerequisites: CJ 1013, CJ 1033 and CJ 1113.

SOCIOLOGY COURSES (SOCI)

1113* INTRODUCTORY SOCIOLOGY, 3 hours credit
A general survey of the scope and problems of sociology; a study of the forces which cause the development of human relationships which influence the rise and growth of people, and impel the organizations composing human society. Lecture 3 hours.

2013* SOCIAL STATISTICS, 3 hours credit
The use and interpretation of statistics in the current professional journals and other sociological literature. Lecture 3 hours. Prerequisites: SOCI 1113 and MATH 1513 or higher.
2023* SOCIAL PROBLEMS, 3 hours credit
An analysis of the nature, history, and scope of current problems in the areas of poverty, crime, the family, health, race relations, mental illness, suicide, and substance abuse. Lecture 3 hours.

2043* APPLIED SOCIOLOGY, 3 hours credit
A study of the application of sociological concepts and research findings in such areas as business and industry, community development, education, medicine, recreation and public policy formation. Lecture 3 hours. Prerequisite: SOCI 1113.

2223* METHODS IN SOCIAL RESEARCH, 3 hours credit
Introduction to the basic concepts of social research: parametric and non-parametric techniques, formulation, and testing of hypothesis, research, sampling problems, and interpretation of data. Lecture 3 hours. Prerequisites: SOCI 1113. Concurrent enrollment in SOCI 2013 is heavily recommended. Permission of instructor necessary for students without prior or concurrent statistics course.

2503* POPULAR CULTURE, 3 hours credit
This course is an analytical, historical, and theoretical introduction to the study of popular culture. The course will stress critical and normative interpretations of popular culture in the organization and representation of social life, especially the relations of dominance and subordination in the production and consumption of cultural commodities. In addition to exploring recent debates within popular culture studies, this course examines the global implications of mass culture as a means of cultural homogenization and social control. Lecture 3 hours. Prerequisite: SOCI 1113.

3003* DEVIANT BEHAVIOR, 3 hours credit
An in-depth study of current sociological theories of deviant behavior. Lecture 3 hours. Prerequisite: SOCI 1113.

3323* COLLECTIVE BEHAVIOR, 3 hours credit
A study of the social process as it pertains to group interaction. An understanding of individual needs in relation to the social situation with an emphasis on crowd and mob psychology, public opinion, rumor, fads, fashions and mass society. The relationship between collective behavior, and social change in terms of innovation, conflict, political movements, and religious revivals. Lecture 3 hours. Prerequisite: SOCI 1113.

3353* SOCIAL DEMOGRAPHY, 3 hours credit
An analysis of the influence of social and cultural settings on natality, mortality and migration. This course also includes an assessment of the impact of demographic change on social systems. Lecture 3 hours. Prerequisite: SOCI 1113.

3373* SOCIOLOGY OF THE COMMUNITY, 3 hours credit
The community, its structure, systems and processes. The influence of geography and patterns of settlement upon urban and rural life. Population growth and migratory patterns. Lecture 3 hours. Prerequisite: SOCI 1113.

3403* SOCIOLOGY OF THE FAMILY, 3 hours credit
An analysis of family types and kinship systems from a cross-cultural perspective. Emphasis will be on anthropological and sociological research and theory related to the origin, development, history and the perseverance and alterations of family patterns and kinship systems as a result of technological and socio-cultural change. Lecture 3 hours. Prerequisite: SOCI 1113.

3413* GERONTOLOGY, 3 hours credit
An in-depth study of various aspects of aging from a broad interdisciplinary perspective. Lecture 3 hours. Prerequisite: SOCI 1113.

3423* DEATH AND DYING, 3 hours credit
Death and dying as social phenomena including cross-cultural perspectives. An understanding of personal coping skills, and occupations and professions dealing with terminal patients in hospitals and with funerals. Lecture 3 hours.

3503* THE SOCIOLOGY OF SMALL GROUPS, 3 hours credit
A study of the dynamics of social interaction within the context of primary group structures. Attention will be given to selected examples of primary group experience. Lecture 3 hours. Prerequisite: SOCI 1113.

3513* INTRODUCTION TO SOCIAL WELFARE AND HUMAN SERVICES, 3 hours credit

3523* THE SOCIOLOGY OF MENTAL ILLNESS, 3 hours credit
An analysis of sociological perspectives on mental illness. Included will be an examination of the problem of definition, the cross-culture regularities and differences, the sociological variable and the process of caring for and treating psychiatric patients from the sociological perspective. Lecture 3 hours. Prerequisite: PSY 1113 or SOCI 2023.

3733* SOCIOLOGY OF GENDER, 3 hours credit
This course will examine the processes by which gender is socially constructed, along with the distinction between biological sex and sociological gender, the causes and consequences of gender inequality, and a historical overview of gender relations in different social institutions and societies. Lecture 3 hours, Prerequisite: SOCI 1113.

3991-3 INTERNSHIP IN SOCIOLOGY, 1-3 hours credit
The placement of sociology majors in various applied job settings. The course involves frequent contact with a faculty supervisor and an off-campus supervisor evaluation. May be repeated for a total of 6 credit hours. Prerequisites: student must be a sociology major, have junior or senior standing and permission of instructor.

4003* CRIMINOLOGY, 3 hours credit
Current social research and theory dealing with crime, and society. Lecture 3 hours. Prerequisite: SOCI 2023 or department permission.

4013* JUVENILE DELINQUENCY, 3 hours credit
An in-depth analysis of juvenile delinquency with regard to its development, treatment and prevention. Lecture 3 hours. Prerequisite: SOCI 1113.
4103* SOCIOLOGY OF RELIGION, 3 hours credit
This course examines sociological perspectives and research on religion. Attention is given to the relationship of religion to major social institutions and structural features of society such as the role of religion in politics, economy, and socialization. It explores sociological explanations on what constitutes religion, the collective basis of religious rituals and beliefs, the social-historical development of religious denominations in the United States, how conflict figures so commonly in religious organizations, what distinguishes churches and denominations from alternative religions commonly known as cults, and how religion is related to various social identities such as race and ethnicity, gender, and social class. This course stresses the questions that competing perspectives and research ask about religion in society and the characteristic ways that they try to answer them.

4213* SOCIAL STRATIFICATION, 3 hours credit
A study of social inequality, with emphasis on the class structure of the United States and its consequences for the individual, groups, and society. Lecture 3 hours. Prerequisites: SOCI 1113 and junior standing.

4303* GLOBALIZATION AND DEVELOPMENT, 3 hours credit
This course examines the current epoch of globalization, tracing its historical trajectory from the 17th century development of mercantilism and colonialism, the post-World War II rise of multinational corporations, and to the post-1989 expansion of global democracy. The causes and effects of globalization are examined primarily in the changing historical context of economy, politics, and culture. Additionally, this course emphasizes comparative understanding of how the effects of global changes are interwoven with various aspects of culture and everyday social life. Lecture 3 hours. Prerequisite: SOCI 1113.

4403* DOMESTIC VIOLENCE, 3 hours credit
A focus on child, spouse, and elderly abuse with a discussion of services available to the abused. Social influences will be examined that may cause or reinforce violent behavior in the home. Lecture 3 hours. Prerequisites: SOCI 1113 and SOCI 3403 or FAMS 1123.

4491-3* INDEPENDENT STUDY, 1-3 hours credit
Intensive independent readings or study of definite problems or special subjects, based on pre-approved outlines or plans, with regular conferences and with oral and written reports. Prerequisite: 15 hours of Sociology or permission of the department chairman. May be repeated with a different topic for a total of 6 hours credit.

4533 HUMAN SERVICES COUNSELING STRATEGIES, 3 hours credit
A study of counseling and interviewing strategies useful in a human services context. Role playing using such techniques as paraphrasing, reflecting, and open questions will be part of the classroom experience. Lectures and discussion. Lecture 3 hours. Prerequisites: SOCI 1113 and department permission.

4591-3* SELECTED TOPICS IN SOCIOLOGY, 1-3 hours credit
An intensive analysis of a selected problem or topic in Sociology. May be repeated with a different topic for a total of 6 hours credit. Lecture 1-3 hours. Prerequisite: 12 hours Sociology or permission of the instructor.

4793* SENIOR SEMINAR: SELECTED TOPICS IN SOCIOLOGY, 3 hours credit
Intensive studies of a major sociological concern, such as criminology, demography, race and ethnic relations, mass communication, theory, etc. Lecture 3 hours. Prerequisite: senior standing or instructor permission.

* Liberal arts and sciences course.
III. MINOR .................................................. 18 hours
Students desiring to enter the job market in such areas as technical writing, editing, public relations, and the like are urged to consider a minor in journalism or (except for those choosing the Creative Writing emphasis) in Professional Writing.

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION
A grade of "C" or better in the major courses will be required of all Teacher Certification candidates.

BACHELOR OF ARTS DEGREE
MAJOR IN ENGLISH EDUCATION (125)

I. GENERAL EDUCATION REQUIREMENT .................................................. 50 hours
General Education requirements are found on the red striped pages.

The English Education program requires specific courses for meeting General Education requirements in behavioral science and humanities as follows:

English Education majors should:
(a) choose PSY 1113 (a prerequisite to EDUC 3733) to meet the Behavioral Science requirement
(b) choose HIST 2113 or 2223 or PHIL 1113 or 2213 as 3 hours of the Humanities requirement
(c) choose from ART 1013, ART 2613, ART 2623, THTR 1103, FNAR 1013, MUSC 1013, MUSC 1023, MUSC 1033, or MUSC 1413 to meet the other 3 hours of the Humanities requirement

II. MAJOR .................................................. 74 hours

Required Course Courses .................................................. 41 hours
ENGL 3003, 3023, 3033, 3043, 3053, 3063, 3073, 3113, 3303, 4613, 4623, 4773, and 5 hours of English electives.

Required Education Courses .................................................. 33 hours
EDUC 1800, 3003, *3612, 3673, 3733, 3753 (R), 4313 (R), 4653 (R), *4965 (R), *4975 (R), and SPED 3103.

* Should be taken in the professional semester
(R) Restricted to students admitted to Teacher Education

III. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION
English Education candidates must achieve a grade of C or better in all major courses (required core courses and required education courses) in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

English Education candidates must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by passing a Department of English and Foreign Languages proficiency test or by taking a foreign language course.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in English Education will be eligible to apply for a standard teaching license.

ENGLISH COURSES (ENGL)

0103 BASIC COMPOSITION SKILLS, 3 hours credit (Remedial/Developmental Course)
Introduces students to and provides practice in reading, writing, and interpretation. Intended for students whose experiences as writers have not prepared them for ENGL 0113. Attention to the development of language skills is integrated into the course’s primary emphasis upon essay writing. Required for entering students who score below 16 on the ACT English test and for adult students who score below 65 on the CPT Sentence Skills test. Individual conferences are arranged as needed. Does not satisfy degree requirement for any degree program at Cameron University. Lecture 3 hours.

0111 COLLEGE WRITING SKILLS (Remedial/Developmental Course)
Supplemental instruction in college writing skills under direction of Writing Center staff. Students must be concurrently enrolled in ENGL 0103 Basic Composition Skills or ENGL 0113 Developmental Writing. Does not satisfy any degree requirement for any degree program at Cameron University.

0113 DEVELOPMENTAL WRITING (Remedial/Developmental Course)
Provides practice in reading, writing and interpretation for students whose experiences as writers have not prepared them for ENGL 1113. Attention to the development of language skills is integrated into the course’s primary emphasis on essay writing. Required for entering students who score greater than 15 but less than 19 on the ACT English test and for adult students who score greater than 64 but less than 96 on the CPT Sentence Skills test. Individual conferences are arranged as needed. Does not satisfy any degree requirement for any degree program at Cameron University. Lecture 3 hours.

0403 ENGLISH FOR ACADEMIC PURPOSES I (Remedial/Developmental Course)
This course is designed to prepare intermediate-level ESL students for academic reading/writing and listening/speaking tasks in college. Attention to the development of language skills is integrated into the course’s emphasis upon writing paragraphs and short essays. May be used as an alternative to ENGL 0103 by students for whom English is a foreign language and who score below a 6 on the English ACT test or below 65 on the CPT Sentence Skills Test. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 3 hours.

0413 ENGLISH FOR ACADEMIC PURPOSES II (Remedial/Developmental Course)
This course is designed to prepare high-intermediate and advanced ESL students for higher level academic reading/writing and listening/speaking tasks in college. Attention to the development of language skills is integrated into the course’s emphasis upon essay writing. May be used as an alternative to ENGL 0113 by students for whom English is a foreign language and who score above 15 but below 19 on the English ACT test or above 64 but below 96 on the CPT Sentence Skills Test. Does not satisfy degree requirements for any degree program at Cameron University. Lecture 3 hours.

1113* ENGLISH COMPOSITION I, 3 hours credit
Regular practice in reading and interpreting college-level texts and in writing expository essays that synthesize, incorporate and document the use of those texts to develop proficiency in critical thinking, reading, and writing. Lecture 3 hours.

1123* HONORS COMPOSITION I, 3 hours credit
Reading and discussion of essays which serve as models of style, point of view, and logic. Emphasis on composition and rhetoric to develop written proficiency. An interdisciplinary approach to course content is included. Lecture 3 hours. Prerequisite: instructor permission or English ACT score of 23 or higher.

1213* ENGLISH COMPOSITION II, 3 hours credit
Continued training and practice in composition and introduction to literature through the writing of multiple essays, at least one of which is a documented research paper using MLA style. Lecture 3 hours. Prerequisite: ENGL 1113.
1223* HONORS COMPOSITION II, 3 hours credit
Reading and discussion of short stories, poetry, drama, and novels as an introduction to literary appreciation. Emphasis on written critical analysis of specific works. Lecture 3 hours. Prerequisite: ENGL 1123 or a grade of "A" in ENGL 1113 or instructor permission.

2013* POPULAR FICTION, 3 hours credit
Reading and discussion of twentieth-century short stories and novels. Lecture 3 hours. Prerequisite: ENGL 1213.

2053* FILM AS LITERATURE, 3 hours credit
The study of film as an educational, verbal, and visual medium for storytelling. Emphasis on literature adapted for film and on literary aspects of non-adapted great films. Lecture 3 hours.

2313* AFRICAN AMERICAN LITERATURE, 3 hours credit
A survey of writings by African American authors from Colonial times to the present. Lecture 3 hours.

2323* AMERICAN INDIAN LITERATURE, 3 hours credit
Examination of Native American literature, with emphasis on contemporary authors. Attention is directed to traditional myths and legends as they relate to contemporary themes. Lecture 3 hours.

2333 INTRODUCTION TO TECHNICAL WRITING, 3 hours credit
Introduces students to the basic principles of effective written communication as applied in a variety of professional settings (e.g., business, industry, government). Reviews elements of grammar, mechanics, and style as related to technical writing; trains students in collecting, organizing, presenting and documenting information in formal reports and in writing other kinds of documents (e.g., correspondence, proposals, manuals) appropriate to professional settings; encourages students to develop a sense of professionalism about their writing. Lecture 3 hours. Prerequisite: ENGL 1213.

2343* WOMEN IN LITERATURE, 3 hours credit
Historical and analytical exploration of the images of women in literature, with emphasis on women writers. Lecture 3 hours.

2413* THE BIBLE AS LITERATURE, 3 hours credit
A literary approach to the Old and New Testaments. Students analyze form, structure and influence of representative biblical literature. Lecture 3 hours. Prerequisite: English 1213.

2980-3* SELECTED TOPICS IN LANGUAGE ARTS, 0-3 hours credit
Directed individual or group study of selected topics or problems in Language Arts. Areas of study will vary from semester to semester. The course may be repeated for additional credit with departmental permission. Prerequisites: as listed for each separate offering, and/or department permission.

Completion of English Composition II and junior standing or permission of Department of English are required for enrollment in classes numbered 3000 or above.

3003* INTRODUCTION TO LITERARY STUDIES, 3 hours credit
Prepares students for upper division literature courses by introducing them to the terms, critical skills, and literary concepts useful for advanced literary study. Lecture 3 hours.

3023* SURVEY OF AMERICAN LITERATURE TO 1865, 3 hours credit
A survey of American literature from its beginning to Whitman. Lecture 3 hours. Prerequisite: ENGL 1213.

3033* SURVEY OF AMERICAN LITERATURE SINCE 1865, 3 hours credit
A survey of American literature from Whitman to the present. Lecture 3 hours. Prerequisite: ENGL 1213.

3043* SURVEY OF ENGLISH LITERATURE TO 1800, 3 hours credit
A survey of English literature from its beginning to the close of the eighteenth century. Lecture 3 hours. Prerequisite: ENGL 1213.

3053* SURVEY OF ENGLISH LITERATURE SINCE 1800, 3 hours credit
A survey of English literature from the beginning of the nineteenth century to the present. Lecture 3 hours. Prerequisite: ENGL 1213.

3063* SURVEY OF WORLD LITERATURE THROUGH THE RENAISSANCE, 3 hours credit
Readings in world literature from classical antiquity to 1700, with emphasis on major authors. Lecture 3 hours. Prerequisite: ENGL 1213.

3073* SURVEY OF WORLD LITERATURE SINCE THE RENAISSANCE, 3 hours credit
Reading of major works in world literature from the post-Renaissance period to the present. Lecture 3 hours. Prerequisite: ENGL 1213.

3113* SHAKESPEARE, 3 hours credit
Interpretation and criticism of selected works of Shakespeare. Lecture 3 hours.

3303* ADVANCED COMPOSITION, 3 hours credit
Critical scrutiny of the structure and style of prose. Study of how rhetorical principles are used and can be taught. Lecture 3 hours. Frequent papers.

3813* LITERARY THEORY, 3 hours credit
An examination of the concepts that guide evaluation, interpretation, and appreciation of literature. Students will acquaint themselves with different theoretical approaches to literature and apply those approaches to specific texts so as to better understand the role of literary theory in the study of literature. Lecture 3 hours. Prerequisite: ENGL 3003.

3881-3* WORKSHOP, 1-3 hours credit
Designed to emphasize special topics in English and the Language Arts. May be repeated with department permission.

4013* MAJOR AUTHORS, 3 hours credit
Intensive study of one or more major authors. Topics may include Chaucer, Milton, Wordsworth, Hawthorne, Dickinson, Hemingway, Morrison, Chekov, Dostoevsky, and others. Lecture 3 hours. May be repeated to a total of 6 hours.

4023* STUDIES IN GENRE, 3 hours credit
Intensive study of a literary genre, with particular attention to formal characteristics and conventions and how they change over time. Topics may include the English novel, the modern English novel, the American novel, the contemporary American novel, modern American and British poetry, contemporary poetry, American drama, and others. Lecture 3 hours. May be repeated to a total of 6 hours.

4053* SEMINAR IN LITERATURE, 3 hours credit
Investigation of one or more authors or a topic of special interest such as a literary theme, movement or form. The topic varies from semester to semester. Students may repeat ENGL 4053 once for credit but may not elect the same topic. Seminar 3 hours. Prerequisite: Departmental approval.

4133* STUDIES IN AMERICAN LITERARY HISTORY, 3 hours credit
Intensive study of a period in American literary history, with particular attention to the relationship between literature and cultural context. Topics may include colonial literature, the American Renaissance, realism and naturalism, American modernism, and American post-modernism. Lecture 3 hours. May be repeated to a total of 6 hours.
4143* STUDIES IN BRITISH LITERARY HISTORY, 3 hours credit
Intensive study of a period in British literary history, with particular attention to the relationship between literature and cultural context. Topics may include British medieval literature, British renaissance literature, British literature of the Restoration and 18th century, British romanticism, Victorian literature, British modernism, and British post-modernism. Lecture 3 hours. May be repeated to a total of 6 hours.

4153* STUDIES IN WORLD LITERATURE, 3 hours credit
Intensive study of a topic in world literature. Material studied may include Caribbean literature, European literature, African literature, Asian literature, Central and South American literature, literature of the Indian subcontinent, and others, and may be organized geographically, historically, or thematically. Lecture 3 hours. May be repeated to a total of 6 hours.

4313* AMERICAN DRAMA, 3 hours credit
An examination of representative American plays from naturalistic tragedy to farce, with emphasis on the period since 1918. Lecture 3 hours.

4603 English Linguistics, 3 hours credit
A linguistic approach to the phonology, morphology, and syntax of the English language, with attention given to semantics and to the origins and development of the language. Lecture 3 hours.

4623 Advanced Grammar and Usage, 3 hours credit
A review of formal English grammar; improvement and practice in functional grammar and usage. Lecture 3 hours.

4633 Rhetoric: Theory and Application, 3 hours credit
A study of traditional and current rhetorical theories with applications for teachers and writers. Consideration is given to discovery of ideas, organization of materials, style, rhetorical stance, and audience analysis. Lecture 3 hours.

4643 Old and Middle English, 3 hours credit
A study of Old and Middle English, with readings in prose and poetry. Prerequisite: ENGL 4613 or permission of the department.

4773 Teaching of English, 3 hours credit
An introduction to methods and materials in teaching high school English. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours, laboratory 2 hours. Prerequisite: department permission.

4961-3 Directed Readings in English, 1-3 hours credit
Intensive independent reading and research on a selected topic, writer, or movement in literature or language, under the supervision of a qualified member of the faculty. May be repeated to a total of 6 hours. Prerequisite: permission of the Chair.

4993 English Capstone, 3 hours credit
Relevant reading and discussion assists graduating English majors in reflecting on their own growth as readers and writers of text over their undergraduate careers and in synthesizing material from various individual courses into a more meaningful understanding of the discipline as a whole. The course also helps prepare students for the workplace and/or graduate school. To be taken in the student’s final semester. Lecture 3 hours.

PROFESSIONAL WRITING COURSES (PRWR)

2013* INTRODUCTION TO CREATIVE WRITING, 3 hours credit
A beginning level course for persons interested in writing literary fiction and/or poetry. Lecture 3 hours. Prerequisite: ENGL 1213 or department permission.

3003* TECHNIQUES OF FICTION, 3 hours credit
A study of the technical features of contemporary literary fiction, including close analysis, writing exercises, and round table workshops of original student work. Lecture 3 hours. Prerequisite: PRWR 2013 or department permission.

3013* TECHNIQUES OF POETRY, 3 hours credit
A study of the technical features of contemporary literary poetry, including close analysis, writing exercises, and round table workshops of original student work. Lecture 3 hours. Prerequisite: PRWR 2013 or department permission.

3103* CREATIVE WRITING – THE SHORT STORY, 3 hours credit
An intensive study of the literary short story. Students experiment with traditional and contemporary forms of the genre through writing exercises and round table workshops of original student work. Publishing is discussed. Lecture 3 hours. Prerequisite: PRWR 2013 and junior standing or department permission.

3203* CREATIVE WRITING – POETRY, 3 hours credit
Practice in traditional and contemporary poetic forms. Students create and workshop original poems. Publishing is discussed. Lecture 3 hours. Prerequisite: PRWR 2013 or department permission.

3303* CREATIVE WRITING -- NONFICTION, 3 hours credit
An intensive study of creative nonfiction. Students experiment with traditional and contemporary forms of the genre through writing exercises and round table workshops of original student work. Publishing is discussed. Lecture 3 hours. Prerequisite: PRWR 2013 or department permission.

3403* CREATIVE WRITING -- THE NOVEL, 3 hours credit
An intensive study of the literary novel. Students experiment with traditional and contemporary forms of the genre, crafting 4 book proposals and at least 50 pages of a novel for round table workshop. Publishing is discussed. Lecture 3 hours. Prerequisite: PRWR 3003 or 3103 and junior standing or department permission.

3991-3* WRITING WORKSHOP, 1-3 hours credit
An intensive concentration on a special aspect of creative writing. Focus will vary semester to semester, but special topics may include writing for children and young adults, sudden fiction, inspirational writing, nature writing, memoir, sports writing, and short story cycles. May be repeated with different topics to a maximum of 6 hours. Prerequisite: PRWR 2013 or department permission.

4003* ONLINE MAGAZINE EDITING, 3 hours credit
Students learn to solicit, evaluate, and select literary fiction, nonfiction, and poetry for production of The Oklahoma Review. Lecture 3 hours. May be repeated to a total of 6 hours. Prerequisite: PRWR 2013 and junior standing or department permission.

4961-3* DIRECTED WRITING, 1-3 hours credit
An individualized program of intensive independent writing with supplemental reading under the supervision of a qualified member of the faculty. May be repeated to a total of 6 hours. Prerequisites: PRWR 2013 and junior standing or department permission.
BACHELOR OF ARTS DEGREE
MAJOR IN INTERNATIONAL LANGUAGES (185)

This degree provides students the opportunity to develop language combinations tailored to their interests and career goals. Students choose both a primary and secondary language from options that include Arabic, Chinese, French, German, Italian, Latin, Persian, Russian, Spanish and Swahili. Language electives may be selected from approximately 50 world languages. All course work emphasizes the development of both written and oral language proficiency.

I. GENERAL EDUCATION REQUIREMENT ................................. 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ........................................................................ 45 hours
   (21 hours must be upper division)
   Primary Language (Arabic, French, German, Latin .................. 18 hours
   or Spanish)
   Secondary Language (Arabic, Chinese, French, German, .......... 12 hours
   Italian, Latin, Persian, Russian, Spanish, or Swahili)
   Language Elective ......................................................... 12 hours
   Linguistics ................................................................. 3 hours
   LING 4113 General Linguistics

III. MINOR ........................................................................ 18 hours
   International Languages majors are strongly urged to consider English,
   Geography, Political Science, Economics, Marketing, or Management as minors.

IV. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION.

BACHELOR OF ARTS DEGREE
MAJOR IN ROMANCE LANGUAGES EDUCATION (186)

I. GENERAL EDUCATION REQUIREMENT ................................. 50 hours
   General Education requirements are found on the red striped pages.

The Romance Languages Education program requires specific courses for meeting General Education requirements in behavioral science and humanities as follows:

Romance Languages Education majors should:
(a) choose PSY 1113 (a prerequisite to EDUC 3733) to meet the Behavioral Science
   requirement
(b) choose HIST 2113 or HIST 2223 or PHIL 1113 or 2213 as 3 hours of the Humanities
   requirement
(c) choose from ART 1013, ART 2613, ART 2623, THR 1103, FNAR 1013,
   MUSC 1013, MUSC 1023, or MUSC 1413 to meet the other 3 hours of the
   Humanities requirement

II. MAJOR ........................................................................ 74 hours
   Romance Languages Education majors must complete one of the following
   program options:

   A. FRENCH .................................................................. 41 hours
      Required Courses:
      FREN 1113, 1223, 2113, 2223, 3113, 3123, 3133, 3143, LING 4173;
      Electives: 14 hours of 4000-level French courses (one course in
      literature required).

      Required Education Courses ....................................... 33 hours
      EDUC 1800, 3003, *3612, 3673, 3753 (R), 4313 (R), 4653 (R),
      *4955 (R), *4985 (R); SPED 3103.

   B. SPANISH .................................................................. 41 hours
      Required Courses:
      SPAN 1113, 1223, 2113, 2223, 3113, 3213, 3123, 3223, 3133, 3143;
      REQUIRED: SPAN 4443;
      Electives: 8 hours of 4000-level Spanish courses (one course in
      literature required).

      Required Education Courses ....................................... 33 hours
      EDUC 1800, 3003, *3612, 3673, 3753 (R), 4313 (R), 4653 (R),
      *4955 (R), *4985 (R); SPED 3103.

   Language Elective ......................................................... 12 hours

   Linguistics ................................................................. 3 hours
   LING 4113 General Linguistics

III. ELECTIVES TO COMPLETE 124 HOURS REQUIRED FOR GRADUATION.

ALBANIAN COURSE (ALBN)

4153* INTENSIVE STUDIES IN ALBANIAN, 3 hours credit
An intensive study of Albanian, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisites: Study of another foreign language or permission of the department.

ARABIC COURSES (ARBC)

1113* BEGINNING MODERN STANDARD ARABIC I, 3 credit hours
An introductory course in the language and culture of Arabic-speaking countries, Lecture 3 hours.

1223* BEGINNING MODERN STANDARD ARABIC II, 3 credit hours
Continuation of ARBC 1113. Lecture 3 hours. Prerequisite: ARBC 1113 or equivalent.

2113* INTERMEDIATE MODERN STANDARD ARABIC I, 3 credit hours
An intermediate course in the language and culture of the Arabic-speaking countries. Lecture 3 hours.

2223* INTERMEDIATE MODERN STANDARD ARABIC II, 3 credit hours
Continuation of ARBC 2113. Lecture 3 hours. Prerequisite: ARBC 2113 or the equivalent.
4961-3 DIRECTED READINGS IN MODERN STANDARD ARABIC, 1-3 hours credit
This course provides an opportunity for gifted and qualified students of Arabic to work on individualized topics in Arabic language, linguistics, and literature. Course may be repeated to a total of 6 hours with department permission. Prerequisite: ARBC 2223 or equivalent.

CATALAN COURSE (CTLN)

4153* INTENSIVE STUDIES IN CATALAN, 3 hours credit
An intensive study of Catalan, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Romance language or department permission.

CHINESE COURSES (CHNS)

1113* BEGINNING CHINESE (MANDARIN) I, 3 hours credit
An introductory course in the language and culture of the People’s Republic of China. Lecture 3 hours.

1223* BEGINNING CHINESE (MANDARIN) II, 3 hours credit
Continuation of Chinese (Mandarin) CHNS 1113. Lecture 3 hours. Prerequisite: CHNS 1113.

COMANCHE LANGUAGE COURSES (CMCH)

1113* COMANCHE LANGUAGE I, 3 hours credit
An introductory course in the language and culture of the Comanche people. Lecture 3 hours. Prerequisite: None.

1223* COMANCHE LANGUAGE II, 3 hours credit
Continuation of CMCH 1113. Lecture 3 hours. Prerequisite: CMCH 1113 or equivalent.

CZECH COURSE (CZCH)

4153* INTENSIVE STUDIES IN CZECH, 3 hours credit
An intensive study of Czech with the goal of reaching near-native fluency in reading, writing, speaking, and understanding the language. Prerequisite: Study of another foreign language or department permission.

DANISH COURSE (DAN)

4153* INTENSIVE STUDIES IN DANISH, 3 hours credit
An intensive study of Danish, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Germanic language or permission of the department.

DARI COURSES (DARI)

4153* INTENSIVE STUDIES IN DARI I, 3 credit hours
An intensive study of Dari with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another foreign language or department permission.

4163* INTENSIVE STUDIES IN DARI II, 3 credit hours
Continuation of DARI 4153. Prerequisite: DARI 4153.

DUTCH COURSE (DTCH)

4153* INTENSIVE STUDIES IN DUTCH, 3 hours credit
An intensive study of Dutch, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Germanic language or permission of the department.

ENGLISH AS A SECOND LANGUAGE COURSES (ESL)

0103 BASIC ENGLISH, 3 hours credit
Review of the fundamentals of English grammar, standard usage, spelling, and punctuation, including a brief introduction to the basics of writing, with emphasis on individual instruction. Does not satisfy any general education requirement and may not be counted toward a major or minor in English. For students for whom English is a second language. Lecture 3 hours.

0113 CONVERSATIONAL ENGLISH, 3 hours credit
Practical instruction in the correct grammatical structures in standard English conversation. Training in verb usage, idiomatic expressions, and situational English. For students for whom English is a second language. Lecture 3 hours.

1113* COMPOSITION I, 3 hours credit
Systematic analysis of expository rhetoric and composition with regular practice to develop proficiency in critical thinking, reading, and writing. Satisfies the General Education requirements for students for whom English is a second language. Lecture 3 hours.

1213* COMPOSITION II, 3 hours credit
Continued training in composition and introduction to literary appreciation through the study of literary forms. Satisfies the General Education requirements for students for whom English is a second language. Lecture 3 hours.

FRENCH COURSES (FREN)

1113* BEGINNING FRENCH I, 3 hours credit
An introductory course in the language and culture of French-speaking countries. Lecture 3 hours.

1223* BEGINNING FRENCH II, 3 hours credit
Continuation of French 1113. Lecture 3 hours. Prerequisite: FREN 1113 or equivalent.

2113* INTERMEDIATE FRENCH I, 3 hours credit
Emphasis is placed on active use of the spoken language. More complex syntactic and grammatical forms are presented. Course taught largely in French. Lecture 3 hours. Prerequisite: FREN 1223 or equivalent.

2223* INTERMEDIATE FRENCH II, 3 hours credit
Continuation of French 2113. Lecture 3 hours. Prerequisite: FREN 2113 or the equivalent.

3113* FRENCH GRAMMAR AND LINGUISTICS, 3 hours credit
A systematic review of French grammar and the cultivation of facility in reading French newspapers, magazines, and books, with additional emphasis on improving the student's control of spoken French. Lecture 3 hours. Prerequisite: FREN 2223 or equivalent.

3123* FRENCH CULTURE, 3 hours credit
A systematic review of French culture. Conducted in French. Lecture: 3 hours. Prerequisite: FREN 2223 or equivalent.
3133* FRENCH COMPOSITION, 3 hours credit
A systematic review of French grammar, with a view toward improving the student's control of written French. Conducted in French. Lecture 3 hours. Prerequisites: FREN 2113 and 2223.

3143* FRENCH CONVERSATION, 3 hours credit
Total emphasis on improving the student's control of spoken French, with a special emphasis on idiomatic French. Conducted in French. Lecture 3 hours. Prerequisites: FREN 2113 and 2223.

4113* L'HISTOIRE DE FRANCE, 3 hours credit
A survey of the important political, social, economic, diplomatic, intellectual, and religious developments in French history. Conducted in French. Lecture 3 hours. Prerequisite: FREN 3143 or equivalent.

4123* FRENCH ECRIVAINS PROSODIQUES, 3 hours credit
A course oriented toward the study of major French prose literary works, from the Middle Ages to the present. Relationships between literature and society will also be examined. Conducted in French. Lecture 3 hours. Prerequisite: FREN 4113 or equivalent.

4133* FRENCH POETS AND DRAMATISTS, 3 hours credit
A study of the various trends in French poetry and drama. Conducted in French. Lecture 3 hours. Prerequisite: FREN 4123 or equivalent.

4143* FRENCH FOR BUSINESS AND INDUSTRY, 3 hours credit
The French language as a means of communication in the world of business; basic commercial and economic vocabulary; trade and advertisement practices. Conducted largely in French. Lecture 3 hours. Prerequisite: FREN 4133 or equivalent.

4961-3* DIRECTED READINGS IN FRENCH, 1-3 hours credit
Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: FREN 4143 or equivalent.

GERMAN COURSES (GERM)

1113* BEGINNING GERMAN I, 3 hours credit
An introductory course in the language and culture of German-speaking countries. Lecture 3 hours.

1223* BEGINNING GERMAN II, 3 hours credit
Continuation of German 1113. Lecture 3 hours. Prerequisite: GERM 1113 or equivalent.

2113* GERMAN GRAMMAR, 3 hours credit
A systematic review of German grammar and the cultivation of facility in reading German newspapers, magazines, and books, with additional emphasis on improving the student's control of spoken German. Lecture 3 hours. Prerequisite: GERM 1223 or equivalent.

2123* GERMAN CULTURE, 3 hours credit
A systematic review of German culture, with additional emphasis on improving the student's control of spoken German. Conducted in German. Lecture 3 hours. Prerequisite: GERM 2123 or equivalent.

3113* GERMAN COMPOSITION, 3 hours credit
A systematic review of German grammar, with a view toward improving the student's control of written German. Conducted in German. Lecture 3 hours. Prerequisite: GERM 2123 or equivalent.

3123* GERMAN CONVERSATION, 3 hours credit
Total emphasis on improving the student's control of spoken German, with a special emphasis on idiomatic German. Conducted in German. Lecture 3 hours. Prerequisite: GERM 3113 or equivalent.

4961-3* DIRECTED READINGS IN GERMAN, 1-3 hours credit
Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: GERM 3123 or equivalent.

INDONESIAN COURSES (INDN)

4153* INTENSIVE STUDIES IN INDONESIAN I, 3 hours credit
An intensive study of Indonesian, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Lecture 3 hours. Prerequisite: Study of another foreign language or permission of the department.

4163* INTENSIVE STUDIES IN INDONESIAN II, 3 hours credit
Continuation of Indonesian I. Lecture 3 hours. Prerequisite: INDN 4153.

ITALIAN COURSES (ITAL)

1113* BEGINNING ITALIAN I, 3 hours credit
An introductory course in the language and culture of Italy and other Italian-speaking areas. Lecture 3 hours.

1223* BEGINNING ITALIAN II, 3 hours credit
Continuation of Italian 1113. Lecture 3 hours. Prerequisite: ITAL 1113 or equivalent.

2113 INTERMEDIATE ITALIAN I, 3 hours credit
An intermediate-level course in the Italian language. A review of grammar, writing, and speaking. Conducted in Italian. Lecture 3 hours, Prerequisite: ITAL 1223.

2223 INTERMEDIATE ITALIAN II, 3 hours credit
Continuation of ITAL 2113. Conducted in Italian. Lecture 3 hours. Prerequisite: ITAL 2113 or the equivalent.

4961-3* DIRECTED READINGS IN ITALIAN, 1-3 hours credit
Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 6 hours with departmental permission. Does not count toward a major in International Languages.

LATIN COURSES (LATN)

1113* BEGINNING LATIN I, 3 hours credit
An introductory course in understanding, speaking, reading, and writing Latin. Lecture: 3 hours.

1223* BEGINNING LATIN II, 3 hours credit
Continuation of LATIN 1113. Lecture 3 hours. Prerequisite: LATN 1113 or equivalent.

2113 INTERMEDIATE LATIN I, 3 hours credit

2223 INTERMEDIATE LATIN II, 3 hours credit
Continuation of LATIN 2113. Conducted in Latin. Lecture 3 hours. Prerequisite: LATIN 2113 or the equivalent.

4171-3* SPECIAL TOPICS IN LATIN, 1-3 hours credit
Directed individual or group study of selected topics or problems in Latin. Areas of study will vary from semester to semester. This course may be repeated to a total of 6 hours with departmental permission. Does not count toward a major in International Languages.
**4961-3* DIRECTED READINGS IN LATIN, 1-3 hours credit**
Intensive independent readings and research on a selected topic, writer, or movement in literature or the Latin language under supervision of faculty member. May be repeated to a total of 6 hours with department permission. Prerequisite: LATN 2223 or equivalent.

**LINGUISTICS COURSES (LING)**

**4113* GENERAL LINGUISTICS, 3 hours credit**
A systematic review of linguistics to include grammar, phonology, morphology, syntax, and semantics of world languages. Prerequisites: 6 hours English Composition, 3 hours foreign language or permission of instructor.

**4163 TEACHING ENGLISH AS A SECOND LANGUAGE: THEORY AND METHODS, 3 hours credit**
Introduction to theories of language acquisition and methods of instruction; practicum in applications of theories and methods. Prerequisites: 6 hours English Composition, 3 hours foreign language or instructor permission.

**4173 TEACHING FOREIGN LANGUAGES: THEORY AND METHODS, 3 hours credit**
An introduction to methods and materials in teaching elementary and secondary foreign languages. Lecture 2 hours, laboratory 2 hours. Teacher Certification students must be admitted to teacher education prior to enrollment in this course.

**4181-3* SPECIAL TOPICS IN LINGUISTICS, 1-3 hours credit**
Directed individual or group study of selected topics or problem areas in linguistics. Areas of study will vary from semester to semester. This course may be repeated up to a total of 6 hours credit with departmental permission. Prerequisites: 6 hours ENGL COMP, 3 hours foreign language or instructor permission.

**NORWEGIAN COURSE (NORW)**

**4153* INTENSIVE STUDIES IN NORWEGIAN, 3 hours credit**
An intensive study of Norwegian, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another foreign language or permission of the department.

**PASHTO COURSES (PHTO)**

**4153* INTENSIVE STUDIES IN PASHTO I, 3 credit hours**
An intensive study of Pashto, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another foreign language or department permission.

**4163* INTENSIVE STUDIES IN PASHTO II, 3 credit hours**
Continuation of PHTO 4153. Prerequisite: PHTO 4153.

**PERSIAN (FARSI) COURSES (PRSN)**

**1113* BEGINNING PERSIAN (FARSI) I, 3 credit hours**
An introductory course in the language and cultures of Iran and Afghanistan. Lecture 3 hours.

**1223* BEGINNING PERSIAN (FARSI) II, 3 credit hours**
Continuation of PRSN 1113. Lecture 3 hours. Prerequisite: PRSN 1113 or the equivalent.

**POLISH COURSE (PLSH)**

**4153* INTENSIVE STUDIES IN POLISH, 3 hours credit**
An intensive study of Polish with the goal of reaching near-native fluency in reading, writing, speaking, and understanding the language. Prerequisite: Study of another foreign language or permission of the department.

**PORTUGUESE COURSES (PORT)**

**4153* INTENSIVE STUDIES IN PORTUGUESE, 3 hours credit**
An intensive study of Portuguese, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Romance language or department permission.

**4961-3* DIRECTED READINGS IN PORTUGUESE, 3 hours credit**
Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: PORT 4153.

**ROMANIAN COURSES (ROMN)**

**4153* INTENSIVE STUDIES IN ROMANIAN, 3 hours credit**
An intensive study of Romanian, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Romance language or department permission.

**4961-3* DIRECTED READINGS IN ROMANIAN, 3 hours credit**
Provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: ROMN 4153.

**RUSSIAN COURSES (RUSN)**

**1113* BEGINNING RUSSIAN I, 3 credit hours**
An introductory course in the language and culture of the Russian Federation. Lecture 3 hours.

**1223* BEGINNING RUSSIAN II, 3 credit hours**
Continuation of RUSN 1113. Lecture 3 hours. Prerequisite: RUSN 1113 or the equivalent.

**4961-3 DIRECTED READINGS IN RUSSIAN, 1-3 hours credit**
This course provides an opportunity for gifted and qualified students of Russian to work with an instructor on individualized topics in Russian language, linguistics, and literature. Course may be repeated to a total of six hours with departmental permission. Prerequisite: RUSN 1223 or equivalent.

**SOMALI COURSES (SMLI)**

**4153* INTENSIVE STUDIES IN SOMALI I, 3 credit hours**
An intensive study of Somali, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another foreign language or department permission.

**4163* INTENSIVE STUDIES IN SOMALI II, 3 credit hours**
Continuation of SMLI 4153. Prerequisite: SMLI 4153.
**SPANISH COURSES (SPAN)**

1113* BEGINNING SPANISH I, 3 hours credit
An introductory course in the language and culture of Spanish-speaking countries. Lecture 3 hours.

1223* BEGINNING SPANISH II, 3 hours credit
Continuation of SPAN 1113. Lecture 3 hours. Prerequisite: SPAN 1113 or equivalent.

2113* INTERMEDIATE SPANISH I, 3 hours credit
An intermediate-level course in the Spanish language. A review of grammar, writing, and speaking. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 1223 or the equivalent.

2223* INTERMEDIATE SPANISH II, 3 hours credit
Continuation of SPAN 2113. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 2113.

3113* SPANISH GRAMMAR AND LINGUISTICS, 3 hours credit
A systematic review of Spanish grammar; a study of the phonology, morphology, syntax, and semantics of modern standard Spanish. Lecture 3 hours. Prerequisite: SPAN 2223 or equivalent.

3123* SPANISH CONVERSATION, 3 hours credit
Improving accent and rapidity of speech through speeches, presentations, impromptu dialogues. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 2223 or equivalent.

3133* SPANISH CULTURE, 3 hours credit
A systematic review of the cultures of the Spanish-speaking world, with additional emphasis on improving the student's control of spoken Spanish. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113 and SPAN 3123 or equivalent.

3143* SPANISH COMPOSITION, 3 hours credit
Cultivation of facility in writing Spanish. Planned and impromptu compositions. Lecture 3 hours. Prerequisite: SPAN 3113 and SPAN 3123 or equivalent.

3213 ADVANCED SPANISH GRAMMAR AND LINGUISTICS, 3 hours credit
An expansion and refinement of complex structures including nuances of the language not addressed in SPAN 3113 which may include archaic and literary tenses, special verb forms for indirect discourse, infrequently used compound tenses, advanced vocabulary, and expanded use of the subjunctive mood. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113 or equivalent.

3223 ADVANCED SPANISH CONVERSATION, 3 hours credit
Provides additional training in oral mastery of the Spanish language. Focuses on the automation of spoken language in all tenses/moods. Aims to achieve command of idiomatic expressions and advanced vocabulary. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3123 or equivalent.

4113* LA HISTORIA DEL MUNDO HISPANICO, 3 hours credit
A survey of the important political, social, economic, diplomatic, intellectual, and religious developments in the Spanish speaking world. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3143 or equivalent.

4123* ESPANA EN SU LITERATURA I, 3 hours credit
The study of the major literary works of Spain from the Middle Ages through the 17th Century. Relationships between literature and society will also be examined. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4113 or equivalent.

4133* ESPANA EN SU LITERATURA II, 3 hours credit
The study of the major literary works of Spain from the 18th Century to the present. Relationships between literature and society will also be examined. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4123 or equivalent.

4143* HISPANOAMERICA EN SU LITERATURA I, 3 hours credit
The study of the major literary works of Spanish America from pre-colonial literature to the first half of the 19th Century. Relationships between literature and society will be discussed. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4113 or equivalent.

4153* HISPANOAMERICA EN SU LITERATURA II, 3 hours credit
The study of the major literary works of Spanish America from the second half of the 19th Century to the present. Relationships between literature and society will be discussed. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4143 or equivalent.

4163* SPANISH FOR BUSINESS AND INDUSTRY, 3 hours credit
The Spanish language as a means of communication in the world of business; basic commercial and economic vocabulary; trade and advertisement practices. Lecture 3 hours.

**SWAHILI COURSES (SWLI)**

1113* BEGINNING SWAHILI I, 3 credit hours
An introductory course in the major language and the cultures of East Africa. Lecture 3 hours.

1223* BEGINNING SWAHILI II, 3 credit hours
Continuation of SWLI 1113. Lecture 3 hours. Prerequisite: SWLI 1113 or the equivalent.

3113* SPANISH GRAMMAR AND LINGUISTICS, 3 hours credit
A systematic review of Spanish grammar; a study of the phonology, morphology, syntax, and semantics of modern standard Spanish. Lecture 3 hours. Prerequisite: SPAN 2113.

3123* SPANISH CONVERSATION, 3 hours credit
Improving accent and rapidity of speech through speeches, presentations, impromptu dialogues. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113.

3133* SPANISH CULTURE, 3 hours credit
A systematic review of the cultures of the Spanish-speaking world, with additional emphasis on improving the student's control of spoken Spanish. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113 and SPAN 3123 or equivalent.

3143* SPANISH COMPOSITION, 3 hours credit
Cultivation of facility in writing Spanish. Planned and impromptu compositions. Lecture 3 hours. Prerequisite: SPAN 3113 and SPAN 3123 or equivalent.

3213 ADVANCED SPANISH GRAMMAR AND LINGUISTICS, 3 hours credit
An expansion and refinement of complex structures including nuances of the language not addressed in SPAN 3113 which may include archaic and literary tenses, special verb forms for indirect discourse, infrequently used compound tenses, advanced vocabulary, and expanded use of the subjunctive mood. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3113 or equivalent.

3223 ADVANCED SPANISH CONVERSATION, 3 hours credit
Provides additional training in oral mastery of the Spanish language. Focuses on the automation of spoken language in all tenses/moods. Aims to achieve command of idiomatic expressions and advanced vocabulary. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3123 or equivalent.

4113* LA HISTORIA DEL MUNDO HISPANICO, 3 hours credit
A survey of the important political, social, economic, diplomatic, intellectual, and religious developments in the Spanish speaking world. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3143 or equivalent.

4123* ESPANA EN SU LITERATURA I, 3 hours credit
The study of the major literary works of Spain from the Middle Ages through the 17th Century. Relationships between literature and society will also be examined. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4113 or equivalent.

4133* ESPANA EN SU LITERATURA II, 3 hours credit
The study of the major literary works of Spain from the 18th Century to the present. Relationships between literature and society will also be examined. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4123 or equivalent.

4143* HISPANOAMERICA EN SU LITERATURA I, 3 hours credit
The study of the major literary works of Spanish America from pre-colonial literature to the first half of the 19th Century. Relationships between literature and society will be discussed. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4113 or equivalent.

4153* HISPANOAMERICA EN SU LITERATURA II, 3 hours credit
The study of the major literary works of Spanish America from the second half of the 19th Century to the present. Relationships between literature and society will be discussed. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 4143 or equivalent.

4163* SPANISH FOR BUSINESS AND INDUSTRY, 3 hours credit
The Spanish language as a means of communication in the world of business; basic commercial and economic vocabulary; trade and advertisement practices. Lecture 3 hours.

4961-3* DIRECTED READING IN SPANISH, 1-3 hours credit
This course provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: SPAN 4143 or equivalent.

**SWEDISH COURSE (SWED)**

4153* INTENSIVE STUDIES IN SWEDISH, 3 hours credit
An intensive study of Swedish, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Prerequisite: Study of another Germanic language or department permission.

**TURKISH COURSES (TURK)**

4153* INTENSIVE STUDIES IN TURKISH I, 3 hours credit
An intensive study of Turkish with the goal of reaching near-native fluency in reading, writing, speaking, and understanding the language. Prerequisite: Study of another foreign language or department permission.

4163* INTENSIVE STUDIES IN TURKISH II, 3 hours credit
Continuation of TURKISH 4153. Prerequisite: TURK 4153.

* Liberal arts and sciences course.
The Department of History and Government offers programs leading to Bachelor of Arts degrees with majors in History, Political Science, and Social Studies Education. The department also supports minors in humanities, geography, and philosophy and provides several courses which meet general education requirements. It provides more specialized upper-level courses for those wishing to pursue careers related to history, political science, and social studies education. Such education prepares students for graduate study and careers in teaching, law, military service, and other professions.

### BACHELOR OF ARTS DEGREE

#### MAJOR IN HISTORY (130)

Historians study, assess, and interpret the past in a spirit of critical inquiry as they try to determine not only what happened, but the causes and effects of past events. The study of history can provide a student with a broader perspective about past events and a deeper understanding of present conditions.

I. GENERAL EDUCATION REQUIREMENT ........................................... 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 42 hours
   Required Courses .................................................. 15 hours
   HIST 1113, HIST 1123, HIST 1483 or HIST 1493 (in addition to the course taken to meet the general education requirement), HIST 2133 and HIST 4793.

   Electives .......................................................... 27 hours
   (Chosen from each of the following areas with the approval of the department.)
   1. U.S. history courses (12 hours)
   2. Non-U.S. history courses (15 hours), Six of those hours must consist of HIST 2113 and HIST 2223.

III. MINOR ............................................................ 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

V. Students must achieve a grade of C or better in HIST 2133 and HIST 4793 to graduate.

VI. Required assessment exam taken prior to graduation.

### BACHELOR OF ARTS DEGREE

#### MAJOR IN POLITICAL SCIENCE (162)

Political Science is the study of governments, their philosophical and constitutional foundations, institutional structures, processes, interrelations, and policies. An understanding of political science leads to an appreciation of the complexity of political life and the roles of citizens in it. The Political Science Program provides courses which serve the needs of the general student as well as those students seeking a broad liberal education, preparing for graduate study in political science, or preparing for law school.

I. GENERAL EDUCATION REQUIREMENT ........................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 36 hours
   Required Courses .................................................. 6 hours
   PS 2113 and PS 2793
   At least three hours in each of the following five areas; the remaining fifteen hours may be selected from any or all of the areas (Note: PS 2001-3 may be taken for a maximum of 6 hours) .................. 30 hours

   Political Theory
   PS 2001-3, PS 2613, PS 3613, PS 3633, PS 4491-3, PS 4591-3,
   PS 4613, PS 4673

   Institutions and Processes
   PS 2001-3, PS 2023, PS 3003, PS 3483, PS 3513, PS 3813, PS 4013,
   PS 4253, PS 4491-3, PS 4591-3

   Politics and Behavior
   PS 2001-3, PS 2713, PS 3013, PS 3023, PS 3043, PS 3113, PS 3721-3,
   PS 4491-3, PS 4591-3

   International Relations
   PS 2001-3, PS 3213, PS 3223, PS 4053, PS 4491-3, PS 4591-3

   Comparative Government
   PS 2001-3, PS 3333, PS 4023, PS 4043, PS 4491-3, PS 4591-3

   NOTE: Students may take selected cognate courses with advisor approval to meet major requirements. Cognate courses used to fulfill Political Science Major requirements may not be used to meet Minor requirements.

III. MINOR ............................................................ 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
   Please Note: A student must complete at least 40 hours of upper division courses.

V. Required assessment exam taken prior to graduation.
BACHELOR OF ARTS DEGREE
MAJOR IN SOCIAL STUDIES EDUCATION (135)

The Bachelor of Arts in Social Studies Education degree program offers course work in preparation for teaching social studies at the 7-12 grade level in the state of Oklahoma. Specific courses required for the major include 39 hours of major core courses, 33 hours of education courses, and 51-52 hours of general education courses, of which 24 hours are required social studies content-area courses. Thus, 63 hours of social studies course work are required as major core courses and general education courses, with 36 total hours of history, 6 hours of political science, 6 hours of economics, 6 hours of geography, 3 hours of psychology, 3 hours of sociology, and an additional 3-hour social studies elective.

Students interested in the Social Studies Education degree should consult as early as possible with the program advisor in the Department of History and Government to ensure that the proper sequence of course work is taken to complete the degree within 124 hours.

I. GENERAL EDUCATION REQUIREMENT .................................................. 50 hours

General Education requirements are found on the red striped pages.

The Social Studies Education program requires specific courses for meeting General Education requirements as follows:

**Required Courses**
- ENGL 1113, ENGL 1213, COMM 1113, MATH 1513 or above, BIOL 1004 or 1364, ESCI 1135 or GEOL 1014, HIST 1483*, PS 1113*, Humanities (6 hours), HIST 1113*, HIST 2113*, HIST 2223*, SOCI 1113*, one additional non-history humanities course, PSY 1113*, ECON 2013*, Physical Education activities (4 hours) or Military Science (8 hours).

**Electives**
Sufficient to total 50 hours with no more than 6 hours in any one department.

*Required additional core courses to supplement the major

II. MAJOR CORE COURSES ................................................................. 39 hours

**History** ................................................................. 24 hours
- HIST 1123, HIST 1493, HIST 2133, HIST 3043, HIST 4773,
- U.S. History Elective (6 hours of 3000+ level)
- Non-U.S. History Electives (3 hours of 3000+ level)

**Political Science** .............................................................. 3 hours
- Political Science Elective (select one): PS 2023, PS 2113, PS 3003, PS 3213

**Economics** ................................................................. 3 hours
- Economics Elective (select one): ECON 3023, GEOG 3023

**Geography** ................................................................. 6 hours
- GEOG 2243 and GEOG 3213

**Social Studies**
- Social Studies Elective (3 hours). Choose an additional 3000+ course in PS, GEOG, ECON, or SOCI

III. REQUIRED EDUCATION COURSES ................................................. 33 hours
- EDUC 1800, EDUC 3003, *EDUC 3612, EDUC 3673, EDUC 3733,
- EDUC 3753 (R), EDUC 4313 (R), EDUC 4653 (R), *EDUC 4965 (R),
- *EDUC 4975 (R), and SPED 3103.

* Courses taken in the professional semester.

(R) Restricted to students admitted to Teacher Education.

IV. ELECTIVES (IF NEEDED) REQUIRED TO COMPLETE 124 HOURS FOR GRADUATION

Social Studies Education candidates must achieve a grade of C or better in all major core courses and required education courses in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Social Studies Education candidates must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages proficiency test or by taking a foreign language course.

**Teacher Licensure/Certification**
The student who completes the requirements for this degree and passes the state tests for certification in U.S. History/Oklahoma History/U.S. Government/Economics, World History/Geography, and/or Psychology/Sociology will be eligible to apply for a standard teaching license.

**GEOGRAPHY COURSES (GEOG)**

**2013* PHYSICAL GEOGRAPHY, 3 hours credit**
A basic introduction to the physical elements of the earth as they relate to man. The influence of such factors as soils and minerals, landforms and hydrography, vegetation, weather, and climate are emphasized. Lecture 3 hours.

**2243* HUMAN GEOGRAPHY, 3 hours credit**
The principles of geography in its human aspects and its relationship to the cultural patterns of the world. Lecture 3 hours.

**3023* ECONOMIC GEOGRAPHY, 3 hours credit**
A study of the resource base and economic activities with emphasis on production, distribution, and consumption of various types of commodities of the world. Lecture 3 hours.

**3033* HISTORICAL GEOGRAPHY OF THE UNITED STATES, 3 hours credit**
Geographic environment of America and its influence on the historical evolution of the United States. Lecture 3 hours.

**3213* WORLD REGIONAL GEOGRAPHY, 3 hours credit**
Comparative study of the world's major geographic regions as defined by interrelated complexes of physiographic and cultural elements. Lecture 3 hours.

**3243* ETHNIC GEOGRAPHY OF THE UNITED STATES, 3 hours credit**
A study of the geographic origins of individual groups and of the impact of migration upon their cultural traditions and ways of life. Lecture 3 hours.

**3253* CONSERVATION OF NATURAL RESOURCES, 3 hours credit**
A study of America's resources, their geographic localization, and the nature and problems of their uses and misuses. Lecture 3 hours.
INTENSIVE independent readings on or study of a specific topic in geography, based upon a pre-approved plan of study and action, with regular conferences and written and/or oral reports required. Prerequisites: junior standing, prior completion of at least 6 credit hours in geography, and permission of instructor. May not be taken for elective credit for the Social Studies Education major. May be repeated with a different topic for a total of 6 hours of credit.

3401-3* SELECTED Topics in geography, 1-3 hours credit
An intensive analysis of a selected problem or topic in geography. May be repeated with a different topic for additional credit. Prerequisite: Permission of instructor.

HISTORY COURSES (HIST)

1113* EARLY WORLD CIVILIZATION, 3 hours credit
Survey of the major civilizations of the world from the earliest times to 1650. Lecture 3 hours.

1123* MODERN World CIVILIZATION, 3 hours credit
Survey of the major civilizations of the world from 1650 to the present. Lecture 3 hours.

1483* UNITED States History TO 1865, 3 hours credit
Introductory survey from European backgrounds through the Civil War. Lecture 3 hours.

1493* United States History SInce 1865, 3 hours credit
A survey of the development of the United States from 1865 to the present. Lecture 3 hours.

2113* WESTERN CIVILIZATION I, 3 hours credit
Using an interdisciplinary approach that incorporates materials chiefly from history but also from philosophy, art, and music, this course will provide the student a firm grounding in the History of Europe, including the history of those regions that influenced it such as northern Africa, the Middle East, and the Near East.

2133* AN INTRODUCTION TO HISTORICAL RESEARCH AND WRITING, 3 hours credit
An introduction to the research methods used in history, with emphasis on the gathering and evaluation of evidence, the organization and interpretation of such evidence, and the effective presentation of this research. Lecture 3 hours. Prerequisite: ENGL 1213.

2223* WESTERN CIVILIZATION II, 3 hours credit
Using an interdisciplinary approach that incorporates material chiefly from history but also from philosophy, art, and music, this course will provide the student a firm grounding in the History of Europe from the Renaissance to the present.

3003* AMERICAN HISTORY THROUGH FILM, 3 hours credit
This course will provide a broad overview of American history using films as vehicles for in-depth examination and discussion of important eras, people, and events. Students will watch and discuss films in class, conduct research into the making of each film and its historical accuracy, and write interpretive research papers on broad historical themes discussed in class. Lecture 3 hours. Prerequisite: HIST 1483 or HIST 1493.

3023* MODERN LATIN AMERICA, 3 hours credit
A historical analysis of the forces which have shaped Latin America from the early 19th century to the present. Special attention is devoted to the revolutionary process, with Mexico and Cuba as case studies. Lecture 3 hours. Prerequisite: HIST 2133 or department permission.

3033* THE ATLANTIC WORLD, 1400-1850, 3 hours credit
This course examines the relationships which developed among Africa, the Americas and Europe between 1400 and 1850. Students will examine European exploration and colonization, African state-building and the Atlantic slave trade, and the destruction of old and the creation of new American societies and cultures. Lecture 3 hours. Prerequisites: HIST 1123, HIST 2133 or department permission.

3043* OKLAHOMA HISTORY, 3 hours credit
A survey of the development of Oklahoma from the time of the discovery of America to the present. Lecture 3 hours. Prerequisite: HIST 1483 or HIST 1493.

3053* HISTORICAL GEOGRAPHY OF THE UNITED STATES, 3 hours credit
Geographic environment of America and its influence on the historical evolution of the United States. Lecture 3 hours.

3113* THE TRANS-MISSISSIPPI WEST, 3 hours credit
Development of the Trans-Mississippi and Far Western frontiers, with special attention to the Southwest, exploration, the fur trade, Indian relations, overland migration, transportation, territorial acquisitions, mining and cattle frontiers, and the agrarian revolt. Lecture 3 hours. Prerequisites: HIST 1483, HIST 1493, HIST 2133 or departmental permission.

3133* AMERICAN MILITARY HISTORY, 3 hours credit
A survey of American military history from American Revolution to the present. Lecture 3 hours.

3143* MODERN Far EAST, 3 hours credit
The institutional background and the impact of the occidental world on the East from the early nineteenth century. Problems of modern China and Japan, and their relations with the West, especially the United States. Lecture 3 hours. Prerequisite: HIST 1493, HIST 2223 or HIST 1123.

3233* BRITAIN TO 1689, 3 hours credit
The British people in their political, social, and institutional development from earliest times through the Glorious Revolution. Lecture 3 hours. Prerequisite: HIST 2133 or department permission.

3243* BRITAIN SINCE 1689, 3 hours credit
Emergence of cabinet government, the Industrial Revolution, the Napoleonic era and empire problems, and the development of Britain to the present. Lecture 3 hours. Prerequisite: HIST 2133 or department permission.

3333* THE AMERICAN INDIAN, 3 hours credit
A history of Native American peoples from pre-Columbian times to the contemporary period. Emphasis on tribal culture, the impact of European contact, and the evolution of governmental Indian policy. Lecture 3 hours. Prerequisite: HIST 1483 or HIST 1493, HIST 2133 or department permission.

3343* HISTORY OF THE PLAINS INDIANS, 3 hours credit
A study of the Plains Indians, their origins, migrations, social and cultural development, and the impact of European contact and United States Indian policies. Lecture 3 hours. Prerequisite: HIST 1483 or 1493, HIST 2133 or department permission.

3353* AFRICAN-AMERICAN HISTORY, 3 hours credit
A study of African-American history from the development of the slave trade through emancipation and up to the present time. Emphasis is placed upon the influence of African-Americans in the history of the United States. Lecture 3 hours. Prerequisite: HIST 1483, HIST 1493, HIST 2133 or department permission.
3363* EUROPE AND THE MEDITERRANEAN, 1200-1750, 3 hours credit
During the period from 1200-1750, Europe and the Mediterranean shared in a variety of social, cultural, political, and economic exchanges. This course traces the development of these complex relationships with an emphasis on Southern Europe and its interactions with other Mediterranean societies. Prerequisite: HIST 2133, HIST 2223 or department permission.

3373* THE ANTEBELLUM SOUTH, 3 hours credit
Cultural, economic, and social history of the South from colonial times to the Civil War. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

3383* THE NEW SOUTH, 3 hours credit
The political, economic, and social development of the American South from 1865 to the present, with particular attention to the problems arising from changes in agriculture, the beginnings of industry, and the relations between the races. Lecture 3 hours. Prerequisite: HIST 1493, HIST 2133 or department permission.

3391-3* INDEPENDENT STUDY, 1-3 hours credit
Intensive independent readings or study on definite problems or special historical subjects, based upon pre-approved outlines or plans, with regular conferences and with written and/or oral reports required. Prerequisites: 18 hours of history and instructor permission. May be repeated with a different topic for a total of 6 hours credit.

4123* AMERICAN WOMEN; 1619-PRESENT, 3 hours credit
A survey of American women from the colonial period to present with emphasis on their changing socio-economic and political roles. Lecture 3 hours. Prerequisite: HIST 1493, HIST 2133 or department permission.

4243* AMERICAN COLONIAL HISTORY, 3 hours credit
The political, economic, social, and cultural history of the colonies in North America from the earliest settlements to the preliminaries of the great war for empire. The modification of European institutions and ideals in the New World. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

4253* REVOLUTIONARY AMERICA, 1754-1783, 3 hours credit
The French and Indian War; the British imperial system; the causes and immediate consequences of the War for American Independence. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

4263* THE EARLY NATIONAL PERIOD IN THE UNITED STATES, 3 hours credit
The drafting and adoption of the federal constitution and the organization of a new national government. The origin and development of political parties; the conflict between nationalism and sectionalism; foreign policy and territorial expansion in the period from 1783 to 1824. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

4273* THE AGE OF JACKSON AND AMERICAN EXPANSION, 1824-1861, 3 hours credit
A political history of the period between 1824 and 1861. The impact of nationalism, liberalism, and sectionalism upon American life in the middle period. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

4283* CIVIL WAR IN AMERICA, 3 hours credit
The political, military, diplomatic, economic, and social problems encountered by the Union and the Confederacy; leading personalities and events of the war between the states. Lecture 3 hours. Prerequisite: HIST 1483, HIST 2133 or department permission.

4293* RECONSTRUCTION AND THE GILDED AGE, 3 hours credit
An intensive study of the major economic, political, and social changes in the United States in the aftermath of the Civil War, with emphasis on the processes and problems of reconstruction in the southern states, and with special attention to the rise of modern industrialism and to the organization of labor and the farmers. Lecture 3 hours. Prerequisite: HIST 1493, HIST 2133 or department permission.

4303* UNITED STATES AS AN EMERGING WORLD POWER, 3 hours credit
Studies the coming of age of the United States as an industrial giant and a major force in international politics. Covers socioeconomic, political changes within the nation and foreign policy developments from 1890 to 1920 including the creation of a national urban culture, presidencies of William McKinley, Theodore Roosevelt, and Woodrow Wilson, the Spanish-American War and The First World War. Prerequisite: HIST 1493, HIST 2133 or department permission.

4313* AMERICA BETWEEN THE WORLD WARS, 3 hours credit
The United States in the Age of the Great Depression, with primary stress on social problems and popular movements of the 1920s, New Deal policies of Franklin D. Roosevelt and circumstances under which the nation became involved in World War II. Lecture 3 hours. Prerequisite: HIST 1493, HIST 2133 or department permission.

4323* AMERICA, 1945-PRESENT, 3 hours credit
A study of the political, economic, social, cultural and diplomatic changes in America since 1945. Topics include civil rights, the Cold War, consumerism, social change, and others. Lecture/discussion 3 hours. Prerequisite: HIST 1493, HIST 2133 or department permission.

4333* THE AMERICAN SOUTHWEST, 3 hours credit
The Southwest from the time of Spanish exploration and colonization to the 20th Century. Topics include Native American societies, the Spanish Southwest, the Southwest under the Republic of Mexico, and U.S. occupation following the Mexican War. Topics include immigration, urbanization, the federal presence, popular culture and the Sunbelt phenomenon. Lecture 3 hours. Prerequisite: HIST 1483, HIST 1493, HIST 2133 or department permission.

4353* NORTHERN EUROPE, 1300-1800, 3 hours credit
This course focuses on the major cultural, social, political and economic developments in those European cultures bordering on the Baltic Sea and the North Sea, with particular emphasis on the British Isles, northern Germany, Sweden, Poland, and the Low Countries. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.

4363* FRENCH REVOLUTION AND NAPOLEONIC ERA, 3 hours credit
The period of the French Revolution and Napoleon including the origins of the Revolution, the course of its development, the rise of Napoleon, the Napoleonic wars and their effect on Europe. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.

4373* HISTORY OF EUROPE, 1815-1870, 3 hours credit
Europe at the end of the Napoleonic Era; the Congress of Vienna and the Congress system; the revolutions of 1830 and 1848; the unification of Italy and Germany. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.

4383* HISTORY OF EUROPE, 1870-1918, 3 hours credit
The growth of alliances, economic and political imperialism; World War I and its origin. Lecture 3 hours. Prerequisite: HIST 1123.

4403* EUROPE'S ENLIGHTEMENTS, 1648-1789, 3 hours credit
The growth of divine-right monarchy in Europe and the balance of power; the rationalists and the age of Enlightenment. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.
4413* THE REFORMATION, 3 hours credit
This course will address church and society in later medieval Europe, including the rise of lay piety and the crisis in church governance; the Protestant challenge to the universal church and the Catholic and Protestant reform movements; the rise of confessionalization, the territorial state, and social and cultural transformation; and the Thirty Years' War. Prerequisite: HIST 2113, 2223 or department permission.

4433* RUSSIA TO 1815, 3 hours credit
A survey of the political, institutional, societal, and economic development of Russia from the Kievan period to the end of the Napoleonic Wars. The course will include the origins of Russian society, the rise of Muscovy, the growth of the Russian Empire, origins and development of autocracy and serfdom, and Russia's emergence as a great power. Lecture 3 hours. Prerequisite: HIST 2113, HIST 2133 or department permission.

4443* RECENT EUROPEAN HISTORY, 3 hours credit
The quest for security in the 1920's, the rise of the dictators, and the road to war. World War II and its aftermath. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.

4453* MODERN RUSSIA 1815-PRESENT, 3 hours credit
Europe after the Napoleonic Wars, Russia in the nineteenth century, the nature of the old regime, the emergence of the underground movement, revolutionary literature, the revolutions of 1917, Communist Russia, and post-Communist Russia. Lecture 3 hours. Prerequisite: HIST 2223, HIST 2133 or department permission.

4473* MODERN GERMANY, 1815-PRESENT, 3 hours credit
A study of the political, institutional, societal and economic development of Germany from the end of the Napoleonic Era to the present including German Unification, World War I, the rise of Hitler, World War II, and Germany's post-war recovery. Lecture 3 hours. Prerequisites: HIST 2223, HIST 2133 or department permission.

4483* DIPLOMATIC HISTORY OF MODERN EUROPE, 3 hours credit
A discussion and analysis of the major personalities, events and trends in European diplomacy from the post Napoleonic settlement into the Atomic Age. Attention will be focused primarily upon the major nations of Western Europe. Russia, the Balkan states, and the area of Eastern Europe will be treated only in so far as they interact with the Western European powers. Lecture 3 hours. Prerequisite: History 2223, HIST 2133 or department permission.

4773 METHODS OF TEACHING SOCIAL STUDIES, 3 hours credit
Problems and methods of teaching social studies. Lecture 3 hours. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Prerequisite: department permission. Offered fall semester only.

4793 SENIOR SEMINAR IN HISTORY, 3 hours credit
An intensive study of a historical event or person and the historiography concerning that event or person. Research to gather and evaluate historical facts and interpretations, the organization of this information, and a formal oral and written presentation of the results of the research are required. A formal research paper is required. Prerequisites: 18 hours of history including HIST 2133, and instructor permission.

4961-3* SELECTED TOPICS IN HISTORY, 1-3 hours credit
An intensive analysis of a selected problem or topic in history. May be repeated, with a different topic, for additional credit. Prerequisites: 18 hours of history and instructor permission.

HUMANITIES COURSES (HUM)

2513* HUMANITIES OF THE GREAT PLAINS, 3 hours credit
An interdisciplinary approach to the unique environment and the resultant cultural developments in art, geography, history, literature, and music of the Great Plains from the 1500's through the mid-twentieth century. Lecture 3 hours.

2613* SELECTED TOPICS IN THE HUMANITIES, 3 hours credit
An intensive analysis of a selected problem or topic in the humanities. May be repeated, with a different topic, for additional credit. Lecture 3 hours.

PHILOSOPHY COURSES (PHIL)

1113* INTRODUCTION TO PHILOSOPHY, 3 hours credit
How to construct a logical world view. Lecture 3 hours.

2213* LOGIC, 3 hours credit
How to construct good arguments and avoid being taken in by bad ones. Lecture 3 hours.

3013* ETHICS, 3 hours credit
Critical study of important ethical theories and moral problems of contemporary interest (e.g., euthanasia, abortion, pornography, capital punishment, affirmative action). Lecture 3 hours. Prerequisite: PHIL 1113 or PHIL 2213 or instructor permission.

3123* METAPHYSICS, 3 hours credit
Critical study of three fundamental philosophical topics: God, immortality and freedom. Related topics to be discussed include dualism, idealism, materialism, determinism, and the claim that science can give a complete explanation or description of all that is real. Lecture 3 hours. Prerequisite: PHIL 1113 or 2213 or instructor permission.

4591-3* DIRECTED READINGS IN PHILOSOPHY, 1-3 hours credit
Intensive study of texts on a specific philosophical subject. Requires regular consultation with the instructor as well as preparation of extensive written work. May be repeated with different topics for up to 6 hours credit. Prerequisites: PHIL 1113, PHIL 2013, and instructor permission.

POLITICAL SCIENCE COURSES (PS)

1113* AMERICAN FEDERAL GOVERNMENT, 3 hours credit
A study of the American government system. The American experiment in federalism and democracy; origin and development of the United States Constitution; federal-state relations, civil liberties, the individual as a citizen; political parties; governmental services. Lecture 3 hours.

2001-3* SPECIAL PROBLEMS IN POLITICAL SCIENCE, 1-3 hours credit
An analysis of a selected problem or special topic in political science. May be repeated with different topics for a total of 6 hours credit. Prerequisites: sophomore standing and department permission.

2023* STATE AND LOCAL GOVERNMENT, 3 hours credit
A study of the various political units in the United States with emphasis on states, counties, and municipalities. Lecture 3 hours.

2113* CONCEPTS OF POLITICAL SCIENCE, 3 hours credit
An introduction to basic political concepts, institutions and processes, as well as a review of career opportunities for political scientists. Lecture 3 hours.
2613* INTRODUCTION TO POLITICAL THOUGHT, 3 hours credit
Introduction to the philosophical analysis of politics through study of selected central questions of political thought (such as the nature of justice, power, liberty, or the best regime) in relation to the principles of classical liberalism. Lecture 3 hours.

2713* PUBLIC ADMINISTRATION, 3 hours credit
An introductory course to acquaint students with the field of public administration. Topics include the development of public administration and its political setting, organization theory and behavior, administrative processes, and current issues in public administration. Lecture 3 hours.

2793 RESEARCH METHODS IN POLITICAL SCIENCE, 3 hours credit
The study and application of empirical research methods in political science. The course will include an overview of research designs, the conduct of empirical research, and the organization and preparation of research papers. Lecture 3 hours.

3003* OKLAHOMA GOVERNMENT AND POLITICS, 3 hours credit
An advanced analysis of the structure and function of the government of Oklahoma and the complex political forces operating upon state government. Focus on the state constitution, the institutions it creates, and related political institutions such as political parties. Lecture 3 hours.

3013* POLITICAL PARTIES AND INTEREST GROUPS, 3 hours credit
An analysis of the history, functions, and structure of American political parties and interest groups with a special focus on the interrelationships between parties, groups, campaigns, governmental institutions, public policy formation, and voting behavior. Lecture 3 hours.

3023* PUBLIC OPINION, 3 hours credit
A study of the measurement and nature of public opinion in America. Topics include a methodology critique of public opinion survey research, fundamentals and enduring opinions, and public opinion research on contemporary issues. Lecture 3 hours.

3043* THE MEDIA IN AMERICAN POLITICS, 3 hours credit
A comprehensive analysis of the media in American politics, including an analysis of media modes, news development, restraints on the media, the people and the media, intermediaries and the media, and how the branches of government interact with the media. 3 hours.

3113* THE FORMATION OF PUBLIC POLICY, 3 hours credit
An analysis of the development of public policies in the solution of national problems. Lecture topics include the process of making, implementing, and evaluating public policies. Students select a policy issue of interest and prepare a thoughtful paper on the subject. Lecture 3 hours.

3213* INTERNATIONAL RELATIONS, 3 hours credit
The political dynamics and machinery of international relations, with emphasis on the norms and techniques of nationalism, imperialism, collective security and the formation and execution of foreign policy. Lecture 3 hours.

3223* INTERNATIONAL ORGANIZATIONS, 3 hours credit
An analysis of the background, formation, aims, activities and accomplishments of international government organizations, with emphasis on the United Nations and related agencies. Lecture 3 hours.

3333 COMPARATIVE GOVERNMENT, 3 hours credit
A survey of concepts, approaches, and models used in comparative political research. The course includes an analysis of selected political systems in the modern world including liberal democracies, communist/post-communist systems, and developmental authoritarian regimes. Lecture 3 hours.

3483* THE AMERICAN PRESIDENCY, 3 hours credit
A comprehensive analysis of American constitutionalism and constitutional law, to include development of governmental powers, federalism, and civil rights and civil liberties. Lecture 3 hours.

3513* THE LEGISLATIVE PROCESS, 3 hours credit
An analysis of the legislative process in the U.S. with a focus on the structure and function of the U.S. Congress. Comparisons between Congress, state legislatures, and foreign legislative bodies will be developed. Lecture 3 hours.

3613* HISTORY OF POLITICAL THOUGHT, 3 hours credit
Examination of the development of political philosophy from the art of rule in classical political thought through the development of liberal democracy in the Enlightenment to the criticisms of liberalism in the late 19th century. Lecture 3 hours.

3623* MODERN POLITICAL THOUGHT, 3 hours credit
Political thought from the Renaissance through the nineteenth century. Close study of texts by thinkers such as Hobbes, Locke, Rousseau, Mill and Marx. Lecture 3 hours.

3633* AMERICAN POLITICAL THOUGHT, 3 hours credit
Main currents and cross-currents in American political thought from Puritanism to the present with emphasis on those concepts and ideas which have most decisively influenced the evolution of the federal system of government. Lecture 3 hours.

3721-3 INTERNSHIP IN POLITICAL SCIENCE, 1-3 hours credit
Placement of advanced political science majors in applied job settings. Involves frequent contact with faculty supervisor and off-campus supervisor evaluation. May be repeated for a total of 6 hours credit. Prerequisites: Political Science major, junior standing, and instructor permission.

3813* CONSTITUTIONAL LAW AND GOVERNMENT: THE AMERICAN EXPERIENCE, 3 hours credit
A comprehensive analysis of American constitutionalism and constitutional law, to include development of governmental powers, federalism, and civil rights and civil liberties. Lecture 3 hours.

4013* LOCAL ECONOMIC DEVELOPMENT POLICY, 3 hours credit
A comprehensive examination of the tools, institutions, analytical techniques, financing instruments, and policy context relevant to economic development at the state, regional, and local level. Lecture 3 hours.

4023* THE POLITICS OF DEVELOPING NATIONS, 3 hours credit
An analysis of political institutions and processes with emphasis on selected developing countries in Africa, Asia, Latin America and the Middle East. Lecture 3 hours.

4043* EUROPEAN POLITICS, 3 hours credit
A comparative analysis of political processes and institutions of selected European countries. Topics include constitutional structure; legislative, executive, and judicial processes; political parties; electoral systems; public policy; and international relations. Lecture 3 hours.

4053* U.S. FOREIGN POLICY, 3 hours credit
An examination of the content, formulation, and execution of U.S. foreign policy, with emphasis on the post-World War II period. The course also explores the relationship of U.S. foreign policy to its domestic foundations and to the larger international system. Lecture 3 hours.

4253* THE JUDICIAL PROCESS, 3 hours credit
An analysis of the court system in the United States, focusing on the United States Supreme Court, lower federal courts, federal-state judicial relations, and the role of the judicial system in American policy processes. Lecture 3 hours.
4491-3* SELECTED TOPICS IN POLITICAL SCIENCE, 1-3 hours credit
An intensive analysis of a selected political problem or special topic in political science. May be repeated with a different topic for a total of 6 hours credit. Lecture 1-3 hours.

4591-3* INDEPENDENT STUDY IN POLITICAL SCIENCE, 1-3 hours credit
Intensive independent reading on or study of a specific problem or subject in political science, based on a pre-approved outline or plan, with regular conferences with the instructor and submission of extensive written work. May be repeated with different topics for a total of 6 hours credit. Prerequisites: Political Science major, junior standing, and instructor permission.

4613* PHILOSOPHICAL ISSUES IN CONTEMPORARY POLITICS, 3 hours credit
Philosophical analysis of three to five selected issues in contemporary politics. Issues will vary each time the course is offered based on timeliness and importance of issues, including topics such as globalization, hate speech, political violence, or institutional design. Lecture 3 hours.

4673* CONTEMPORARY POLITICAL THOUGHT, 3 hours credit
Study of central frameworks of normative political theory since 1950, such as liberalism, communitarianism, feminism, and postmodernism. Lecture 3 hours.

* Liberal arts and sciences course.

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DEPARTMENT OF

Music

Chair - James Lambert, Professor
Professors: Labé, Whang
Associate Professors: Duckett, Hoepfner, E. Logan
Assistant Professors: Couch, J. Logan, Moots, K. Underwood

The Department of Music offers programs leading to a Bachelor of Arts degree with a major in Music and a Bachelor of Music degree with a major/minor in Music. Both music programs emphasize the development of musical knowledge and associated performance skills in all music students. The Department of Music has a three-fold mission of course-offerings including service to the music major, service to the non-music major (including the music minor), and service to the community. The Bachelor of Arts degree in Music provides a music degree which will be combined with a minor course study which will prepare the student for careers in music not including teaching or graduate music study. The Bachelor of Music degree is a professional degree which is a major/minor course study preparing the music graduate to be a music teacher, a music performer or to be prepared for further graduate music study. The Department of Music also offers a defined minor in music for those students who already have a different degree major. The Department of Music additionally serves the non-music major through performance opportunities in its university ensembles, general education course offerings and individual skill development. Concert performances and recitals provide music students the opportunity to refine their performance skills as well enabling the Department of Music the opportunity to fulfill its outreach mission to its constituents in the surrounding area.

BACHELOR OF ARTS DEGREE
MAJOR IN MUSIC (160)

I. GENERAL EDUCATION REQUIREMENTS ........................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR .................................................................................. 43 hours
   MUSC 1000 (7 semesters), Band/Choir/Accomp./Orch. (7 semesters),
   MUSC 1413, MUSC 1423, MUSC 2312, MUSC 2332, MUSC 3313, MUSC 3333,
   MUSC 3513, MUSC 3523, MUSC 3612, Major Lesson Field 8 hours (minimum
   2 hours at 4000 level), Piano 4 hours.
   (All music majors (B.A. Degree) must pass a junior standing examination and a
   keyboard proficiency examination before their junior year.)

III. MINOR .................................................................................. 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
BACHELOR OF MUSIC DEGREE
MAJOR IN MUSIC (161)

I. GENERAL EDUCATION REQUIREMENTS ........................................ 50 hours
General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 78 hours

Core Requirements (41 hours) MUSC 1000 (7 semesters),
Band/Choir/Accomp/Orch (7 semesters), MUSC 1413, MUSC 1423,
MUSC 2312, MUSC 2321, MUSC 2332, MUSC 2341, MUSC 3313,
MUSC 3321, MUSC 3333, MUSC 3341, MUSC 3513, MUSC 3523,
MUSC 3612, MUSC 3622, MUSC 4322, MUSC 4332, MUSC 4990

Concentration (37 hours) Select one of the following:

Concentration in Instrumental Music Education (Woodwind, Brass, Percussion, Strings)
MUSC 1201 Class Voice (2 hours) or MUSC 3801 Private Voice (2 hours), MUSC 3642, MUSC 3652, MUSC 3662, MUSC 3672, MUSC 4343, MUSC 4712, MUSC 4722. Major Lesson Field (12 hours, minimum 4 hours at 4000 level), Piano (4 hours), Electives in Music (4 hours). Major ensembles are: MUSC 1111, MUSC 1121 (Strings), or MUSC 3161 (Guitar). Additional course work and testing requirements beyond this degree concentration must be met in order to pursue a career teaching in the public schools. Students should schedule an advisement session in the first semester in this concentration.

Concentration in Vocal Music Education/Keyboard Music Education MUSC 3812 or 1 course selected from MUSC 3642, 3652, 3662, or 3672, MUSC 4343, MUSC 4712, MUSC 4732. Vocal-
MUSC 3761 (3 semesters - each in a different language), MUSC 4753, Keyboard-MUSC 4743, Major Lesson Field (12 hours, minimum 4 hours at 4000 level), Piano (vocal major) or Voice (piano major) 6 hours, Electives in Music to total 37 hours. Major ensembles are MUSC 1141 (Vocal), MUSC 3171 (Keyboard). Additional course work and testing requirements beyond this degree concentration must be met in order to pursue a career teaching in the public schools. Students should schedule an advisement session in the first semester in this concentration.

Concentration in Keyboard Performance MUSC 4743, MUSC 4343, MUSC 3983, MUSC 4312, Major Lesson Field (16 hours, minimum 8 hours at 4000 level), Minor Lesson Field (6 hours), MUSC 3990, MUSC 4981, Electives in Music (6 hours). Major ensemble is: MUSC 3171.

Concentration in Instrumental Performance (Woodwind, Brass, Percussion, Strings)
MUSC 4343, MUSC 4312, Major Lesson Field (16 hours, minimum 8 hours at 4000 level), Piano (4 hours), Private Lessons in Secondary Instruments (6 hours), MUSC 3990, MUSC 4981, Electives in Music (5 hours). Major ensembles are: MUSC 1111, MUSC 1121, and MUSC 3161 (Guitar).

Concentration in Vocal Performance MUSC 4343, MUSC 4312, MUSC 4753, MUSC 3761 (3 semesters - each in a different language), Major Lesson Field (16 hours, minimum 8 hours at 4000 level), Piano (6 hours), MUSC 3990, MUSC 4981, Electives in Music (3 hours). Major ensemble is: MUSC 1141.

Concentration in Composition MUSC 4343, MUSC 4312, MUSC 3351 (6 hours), MUSC 4351 (8 hours), MUSC 4362, Private Lesson Piano (4 hours), Minor Lesson Field (6 hours), MUSC 3990, MUSC 4981, Electives in Music (5 hours). Major ensemble is according to minor lesson field: MUSC 1111, MUSC 1121, MUSC 1141, MUSC 3171 or MUSC 3161 (Guitar).

All Music Majors (B.M. Degree) must pass an entrance examination, a junior standing examination, and a keyboard proficiency examination. A music major is required to enroll in the major ensemble of the student's area of concentration for 7 semesters.

MUSIC COURSES (MUSC)

1000 CONCERT AND RECITAL ATTENDANCE, 0 hours credit
Each semester the music faculty will compile a list of concerts and recitals occurring in the Lawton area. To qualify for graduation, music majors must complete seven satisfactory semesters.

1013* AMERICAN POPULAR MUSIC, 3 hours credit
The study of the various styles in American popular music. An introduction to jazz, country-western, folk, musical, theater, blues, rock, electronics, etc. Intended for the non-music major. Lecture 3 hours.

1023* MUSIC APPRECIATION, 3 hours credit
Study of our cultural heritage through an acquaintance with the elements of music and a variety of musical styles. The course includes listening to recorded music and live performance. Lecture 3 hours.

1033 WORLD MUSIC IN CULTURE, 3 hours credit
The study of world music in various cultural contexts. An exploration of the relationships between world music and identity, everyday life, worship and belief, dance, memory, migration, and politics. Fieldwork and written reports emphasize the application of course content. Lecture 3 hours.

1110-1 BAND, 0-1 hour credit
Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

1120-1 ORCHESTRA, 0-1 hour credit
Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

1130-1 JAZZ ENSEMBLE, 0-1 hour credit
Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

1140-1 CHOIR, 0-1 hour credit
Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit or non-credit.

1201 CLASS LESSONS, 1 hour credit
Class instruction in an orchestral instrument, keyboard, voice or guitar. Lab 2 hours. Requires 5 hours practice per week. May be repeated for credit.

1413* MUSIC LITERATURE I, 3 hours credit
The study of the development of musical styles from antiquity to the Classical period and the associated techniques of listening to music. Lecture 3 hours.

1423* MUSIC LITERATURE II, 3 hours credit
The study of the development of musical styles from the Classical period to the present and the associated techniques of listening to music. Lecture 3 hours. Prerequisite: MUSC 1413.

2201-2 PRIVATE LESSONS, 1-2 hours credit
Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum 12 hours per instrument. Prerequisite: department permission.

2301* MUSIC FUNDAMENTALS, 1 hour credit
An introduction to the basic signs and symbols and the theory of music. Lab 2 hours.
2312* HARMONY AND STRUCTURE I, 2 hours credit
The study of the harmony and structure of music through music analysis, composition and the development of associated functional keyboard skills. Lecture 1 hour/lab 2 hours. Recommended for music majors only.

2321* SIGHT-SINGING AND EAR TRAINING I, 1 hour credit
The study and development of sight singing and ear training skills through the mastery of written, visual, singing and aural techniques. Lab 2 hours. Concurrent enrollment with MUSC 2312 recommended.

2332* HARMONY AND STRUCTURE II, 2 hours credit
A continuation of MUSC 2312. Lecture 1 hour/lab 2 hours. Prerequisite: MUSC 2312.

2341* SIGHT-SINGING AND EAR TRAINING II, 1 hour credit
A continuation of MUSC 2321. Lab 2 hours. Prerequisite: MUSC 2321. Concurrent enrollment with MUSC 2323 recommended.

3160–1 SMALL ENSEMBLE, 0-1 hour credit
Participation in instrumental, keyboard, vocal or guitar ensemble. Rehearsal 2-4 hours per week. Prerequisite: Departmental permission. May be repeated for credit or non-credit.

3171 ACCOMPANYING, 1 hour credit
Piano performance experience through accompanying soloists, small and large ensembles and musical/opera productions. Rehearsal 2-4 hours plus practice each week. Prerequisite: department permission. May be repeated for credit.

3313* HARMONY AND STRUCTURE III, 3 hours credit
A continuation of MUSC 2332. Lecture 3 hours. Prerequisite: MUSC 2332.

3321* SIGHT-SINGING AND EAR TRAINING III, 1 hour credit
A continuation of MUSC 2341. Lab 2 hours. Prerequisite: MUSC 2341. Concurrent enrollment with MUSC 3313 recommended.

3333* HARMONY AND STRUCTURE IV, 3 hours credit
A continuation of MUSC 3313. Lecture 3 hours. Prerequisite: MUSC 3313.

3341* SIGHT-SINGING AND EAR TRAINING IV, 1 hour credit
A continuation of MUSC 3321. Lab 2 hours. Prerequisite: MUSC 3321. Concurrent enrollment with MUSC 3333 recommended.

3351-3 COMPOSITION, 1-3 hours credit
An exploration of various compositional styles and techniques. Lecture 1 hour/lab 1 hour. Prerequisite: MUSC 2312. May be repeated for credit.

3513* MUSIC HISTORY I, 3 hours credit
A general study of music development from antiquity through the Baroque era. Lecture 3 hours. Prerequisite: MUSC 1423.

3523* MUSIC HISTORY II, 3 hours credit
A continuation of MUSC 3513 from Classical through Contemporary music. Lecture 3 hours. Prerequisite: MUSC 3513.

3612* FUNDAMENTALS OF CONDUCTING, 2 hours credit
A beginning course in the principles of both choral and instrumental conducting. Lecture 1 hour/lab 2 hours.

3622 ADVANCED CONDUCTING, 2 hours credit
The techniques of reading scores, use of the baton and interpretation. Practical experience in conducting. Prerequisite: MUSC 3612. Lecture 1 hour/lab 2 hours.

3642 WOODWIND METHODS, 2 hours credit
The study of flute, oboe, clarinet, bassoon, and saxophone. Basic concepts of playing and teaching woodwind instruments; survey of methods, materials and field experience. Lecture 1 hour/lab 2 hours.

3652 BRASS METHODS, 2 hours credit
Study of trumpet, French horn, euphonium, trombone and tuba. Basic concepts of playing and teaching brass instruments; survey of methods, materials and field experience. Lecture 1 hour/lab 2 hours.

3662 STRING METHODS, 2 hours credit
The study of the violin, viola, violoncello, double bass and guitar. Basic concepts of playing and teaching string instruments; survey of methods, materials and field experiences. Lecture 1 hour/lab 2 hours.

3683 MUSIC FOR THE ELEMENTARY TEACHER, 3 hours credit
Rudiments for the general teacher. Functional approach to theory, singing, rhythm and piano. Materials and methods for the classroom. Lecture 3 hours.

3761* ITALIAN, FRENCH, GERMAN DICTION, 1 hour credit
An introduction to diction in Italian, German, and French based on the song literature and using the International Phonetic Alphabet. Each language offered separately. Lab 2 hours.

3801-4 PRIVATE LESSONS, 1-4 hours credit
Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit hour enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum of 12 hours per instrument. Prerequisite: Departmental permission. Open to music majors only.

3812 INSTRUMENTAL METHODS FOR VOCAL AND KEYBOARD EDUCATION, 2 hours credit
A study of brass, woodwind, stringed, fretted and percussion instruments for Vocal Music Education and Keyboard Music Education majors. Students will learn basic techniques, performance skills, and methodology for all instrumental families. Lecture 1 hour/lab 2 hours.

3981-3 SEMINAR, 1-3 hours credit
A continuation of MUSC 3313. Lecture 3 hours. Prerequisite: MUSC 3313. Recommended for students not covered in sufficient depth for their needs. Prerequisite: department permission.

3990 JUNIOR RECITAL, 0 hours credit
A pre-senior performance in the student's major area of study, normally one half-hour in length. Prerequisite: permission of the Chair.

4312* COUNTERPOINT, 2 hours credit
A study of Eighteenth Century species counterpoint through analysis and composition. Lecture 2 hours. Prerequisite: MUSC 3333.

4322* TWENTIETH CENTURY TECHNIQUES, 2 hours credit
A study of 20th Century harmonic and melodic techniques approached through original composition, analysis and performance. Lecture 2 hours. Prerequisite: MUSC 3333.

4332* FORM AND ANALYSIS, 2 hours credit
A study of the standard polyphonic and homophonic forms of the 18th and 19th centuries. Lecture 2 hours. Prerequisite: MUSC 3333.
4343* ARRANGING, 3 hours credit
The study of the art of arranging for instrumental and vocal ensembles. Lecture 3 hours. Prerequisite: MUSC 3333.

4351-3 COMPOSITION, 1-3 hours credit
An exploration of various compositional styles and techniques. Lecture 1 hour/lab 1 hour. Prerequisite: Junior standing in composition. May be repeated for credit. Open to music composition majors only.

4362 COMPUTER MUSIC, 2 hours credit
An introduction to the literature, equipment and techniques of computer music. This course is designed to provide the student with practical experience in the manipulation of sound in a computerized music studio. Lecture 1 hour/lab 2 hours. Prerequisite: department permission.

4702 MARCHING BAND TECHNIQUES, 2 hours credit
The study of marching band drill design, show concepts and marching pedagogy. Lecture 1 hour/lab 2 hours.

4712 ELEMENTARY METHODS, 2 hours credit
A professional training course for students preparing to teach elementary school music. Includes philosophies and practices of current leading music educators with classroom experience relating to conceptual approach. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: restricted to students admitted to teacher education.

4722 SECONDARY INSTRUMENTAL METHODS, 2 hours credit
A professional training course for students preparing to teach secondary school instrumental music. Study of philosophy, psychology and pedagogy as applied to the teaching of instruments. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: restricted to students admitted to teacher education.

4732 SECONDARY VOCAL METHODS, 2 hours credit
A professional training course for students preparing to teach secondary school vocal music. Study of philosophy and pedagogy as applied to the teaching of vocal music. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Lecture 2 hours. Prerequisite: restricted to students admitted to teacher education.

4733* KEYBOARD LITERATURE, 3 hours credit
Survey of keyboard literature. Lecture 3 hours.

4743 KEYBOARD PEDAGOGY, 3 hours credit
The study of teaching techniques and materials for class and private instruction. Lecture 3 hours. Prerequisite: department permission.

4753 VOCAL PEDAGOGY, 3 hours credit
The study of vocal training techniques including anatomy of vocal tract, physiological process and acoustical properties, methods and materials. Lecture 3 hours. Prerequisite: department permission.

4801-4 PRIVATE LESSONS, 1-4 hours credit
Private instruction in an orchestral instrument, keyboard, voice or guitar. One half-hour lesson per week per credit hour enrolled, maximum one hour lesson per week. Requires minimum 5 hours per week of practice per hour enrolled. May be repeated to a maximum 16 hours per instrument. Prerequisite: junior standing. Open to music majors only.

4910-4 WORKSHOP, 0-4 hours credit
A concentrated specific activity utilizing lectures and practical application exercises. May be repeated for credit to a maximum of 8 hours credit.

4981-3 INDEPENDENT STUDY, 1-3 hours credit
A special study based on the needs of the individual student directly related to the student’s major. Individual guidance will be provided by a faculty member. Prerequisite: department permission. The total number of hours earned in independent study may not exceed four.

4990 SENIOR RECITAL, 0 hours credit
Culminating performance in the student's major area of study. Normally one hour in length. Prerequisite: permission of the Chair.

*Liberal arts and sciences course.
The Bachelor of Arts degree with a Major in Theatre provides a program of study focusing on opportunities for personal and artistic development and growth, as well as opportunities to develop collaboration, communication, reasoning and leadership skills required for professional careers in theatre or related areas. Students pursuing the program in Theatre Arts should achieve a level of competence in performance, technical theatre, and the academic areas of theatre history, literature and criticism/analysis. They acquire skills in each of these areas through the department’s course offerings, as well as through its production program. The production aspect of the program also provides an important community outreach opportunity. Non-majors may select Theatre Arts courses to fulfill humanities requirements or as electives.

BACHELOR OF ARTS DEGREE MAJOR IN THEATRE (170)

I. GENERAL EDUCATION REQUIREMENT ............................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 56 hours
   All Theatre majors are required to keep a portfolio of their work and complete a final project. (See advisor for details.)

   Core Requirements .............................................................. 35 hours
   THTR 1001 (8 semesters), THTR 1103, THTR 1203, THTR 2403,
   THTR 2603, THTR 3403, THTR 3803, THTR 3813, THTR 3823,
   THTR 3833

   A. PERFORMANCE OPTION ............................................. 15 hours
      THTR 1133, THTR 1503, THTR 1603, THTR 3603, THTR 4603

   B. TECHNICAL OPTION .................................................. 15 hours
      THTR 2203, THTR 2503, THTR 3303, THTR 1503 or THTR
      3703, and either THTR 4203, THTR 4303, or THTR 4503

   Electives in Theatre ......................................................... 6 hours
   Any combination of THTR 1901-3, THTR 3901-3, THTR 4901-3,
   THTR 4911-3, THTR 4921-6

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
   Students must have 80 hours liberal arts and sciences courses.

FINE ARTS COURSE (FNAR)

1013* EXPLORING MULTICULTURALISM THROUGH THE ARTS, 3 hours credit
   An interdisciplinary course which presents a cross-cultural exploration of the world through a study of representative art forms - art, communications, dance, music, and theatre. Lecture 3 hours.

THEATRE ARTS COURSES (THTR)

1001 THEATRE PRACTICUM, 1 hour credit
   A required course open only to theatre majors. Each theatre major, while in residence, must contribute a minimum of three hours per week per semester to assignments in one or more of the following areas: Box Office, Costuming, Promotion, and Scenery Construction. These three hours are independent of and in addition to any other course, work-study, or laboratory assignments.

1103* INTRODUCTION TO THEATRE, 3 hours credit
   An exploration of the theatre as an art form including forms of drama, styles of production, relationship of performer to audience, basic acting/directing techniques and theories, technical theatre, responsibilities of personnel and performers and how to view a play. Primarily a discussion and observation course with emphasis on building a vocabulary of theatre terms. Lecture 3 hours.

1133* VOICE AND DICTION, 3 hours credit
   A general study of the structure of the vocal mechanism; principles of vocal quality, articulation, and pronunciation. Lecture 3 hours.

1203* TECHNICAL PRODUCTION, 3 hours credit
   An introduction to technical theatre: stage management, scenery, and lighting. Responsibilities and procedures of the stage manager; methods and materials used in construction and rigging of stage scenery; lighting techniques, instruments and principles; stage terminology. Lecture 3 hours. Prerequisite: THTR 1103 or permission of instructor.

1503* MAKE-UP, 3 hours credit
   Principles and practice of application of stage make-up; corrective, character, old age, likeness, and fantasy. Lecture 2 hours/Laboratory 2 hours.

1603 STAGE MOVEMENT, 3 hours credit
   A general understanding of the use and connection of the body and mind as an expressive instrument. Through various theories and techniques to be introduced, a student will develop physically and mentally in strength, agility, flexibility, coordination, flow and balance. The student will also be introduced to current movement theories used in actor training. Lecture 1 hour/Laboratory 2 hours.

1901-3 THEATRE LAB, 1-3 hours credit
   Open to all University students. Laboratory experience in performance, technical production, and management. Arranged around the student's schedule. May be repeated for credit. Permission of instructor.

2203* STAGECRAFT, 3 hours credit
   Intensive study and practice in planning, layout, construction, and painting of the stage setting. Tools, materials, and resources used by the stage technician. Lecture 2 hours/Laboratory 2 hours. Prerequisite: THTR 1203 or permission of instructor.

2403 STAGE MANAGEMENT, 3 hours credit
   The techniques of production stage management, including preparing the prompt script, rehearsal procedures, organizing the technical elements, cueing and running the performance. Prerequisite: THTR 1203 or permission of instructor. Lecture 3 hours.
2503* COSTUME TECHNIQUES, 3 hours credit
Basic costuming skills and sewing techniques will be studied. Various types of sewing and construction will be explored along with work in pattern development. Other costume skills which include script analysis, costume plots, renderings and presentation of costume designs will be studied. Lecture 2 hours/Laboratory 2 hours.

2603* ACTING I, 3 hours credit
Development of basic acting skills including self-awareness, movement, verbal and non-verbal communication, improvisation and working within an ensemble. Lecture 2 hours/lab 2 hours. Prerequisite: THTR 1103 or permission of instructor.

3203* LIGHTING, 3 hours credit
Mechanics of stage lighting: instrumentation, basic electricity, control systems, color mixing, and graphic presentation. Involves participation in preparing lighting for major productions. Lecture 2 hours/Prerequisite: THTR 1203 or permission of instructor.

3403* DIRECTING, 3 hours credit
A study of directing fundamentals including script selection and analysis, concept development, casting, rehearsing, and staging a production. Lecture 2 hours/Laboratory 2 hours. Prerequisites: THTR 1203 and THTR 2603 or permission of instructor.

3603* ACTING II, 3 hours credit
Basic acting skills applied to memorized scene work. Techniques of character development and script analysis using scenes from contemporary scripts. Scene study. Lecture 2 hours/Laboratory 2 hours. Prerequisite: THTR 2603.

3703* AUDIO, 3 hours credit
The nature of sound; operating principles and choice of equipment; design of reinforcement, effects and communications systems. Aesthetic use of sound and role of the sound designer. Projects in practical application. Lecture 3 hours.

3803* THEATRE AND DRAMA: THE BEGINNINGS, 3 hours credit
A study of the evolution of drama, theatre architecture, technical theatre, acting and directing from the beginnings of theatre and drama to the Italian Renaissance. Lecture 3 hours.

3813* THEATRE AND DRAMA: THE RENAISSANCE AND JAPAN, 3 hours credit
A study of the evolution of drama, theatre architecture, technical theatre, acting, and directing during the Renaissance (1400-1700) and an overview of Japanese theatre history and drama. Lecture 3 hours.

3823* THEATRE AND DRAMA: THE EIGHTEENTH AND NINETEENTH CENTURIES, 3 hours credit
A study of the evolution of drama, theatre architecture, technical theatre, acting, and directing from 1660 England to the birth of realism. Lecture 3 hours.

3833* THEATRE AND DRAMA: THE TWENTIETH CENTURY AND CHINA, 3 hours credit
A study of the evolution of drama, theatre architecture, technical theatre, acting, and directing during the 20th Century and including an overview of Chinese theatre. Lecture 3 hours.

3901-3 WORKSHOP, 1-3 hours credit
Experimentation, reading, research, lecture and/or discussion in various areas of theatre history, technology, performance and practice. Designed to give intensive emphasis to a specific area of theatre including improvisation, directing projects, designs, original scripts, etc. Laboratory 2-6 hours. Prerequisite: Permission of the department. May be repeated for credit.

4203* SCENE DESIGN, 3 hours credit
Theories and principles of design for the stage. History, styles, and aesthetics of scenic elements. Projects in analysis, research, and communication of a concept through graphic means. Lecture 3 hours. Prerequisite: THTR 2203.

4303* LIGHTING DESIGN, 3 hours credit
Investigation and evaluation of lighting practice and artistry. Creation of the design concept, light plots, and schemes of execution. The role of the lighting designer in the contemporary theatre. Lecture 3 hours. Prerequisite: THTR 3303.

4503* COSTUME DESIGN, 3 hours credit
Principles of costume design for the stage: development and rendering of design concepts; use of historic, stylistic and fantasy elements in stage realization. Lecture 3 hours. Prerequisite: THTR 2503.

4603* ACTING III: PERIOD STYLES, 3 hours credit
Lecture, monologue, and scene work in period acting styles with a concentration on the works of William Shakespeare in order to develop an appreciation and understanding of the different acting styles from antiquity to the present day. Lecture 2 hours/Laboratory 2 hours. Prerequisite: THTR 3603.

4901-3 INDEPENDENT STUDY, 1-3 hours credit
An individual study course of advanced nature. Subject matters vary with background and interest of student. Prerequisite: Permission of department. May be repeated for credit.

4911-3 SEMINAR, 1-3 hours credit
Concentrated investigation of specific problems and/or areas in theatre. Prerequisite: Permission of department. May be repeated for credit.

4921-8 INTERNSHIP, 1-8 hours credit
Off-campus work with regional or national theatre companies and firms specializing in theatrical goods and services. Open only to juniors and seniors with permission of the department. May be repeated for credit.

* Liberal arts and sciences course.
The mission of the School of Science and Technology is to offer students baccalaureate and associate level educational opportunities in the basic and applied sciences, mathematics, multimedia design, computing and technology. Courses in these fields are also provided to students in support of their general education requirements. Baccalaureate degrees are provided in the following fields of study: agriculture, biology, biology education, medical technology, mathematics, mathematics education, computer science, information technology, multimedia design, chemistry, chemistry education, natural science, physics, and technology. Associate of applied science degrees are provided in multimedia design, information technology, computer aided design drafting, applied technology and electronic engineering technology. Programs leading to teacher licensure/certification are offered in biology, chemistry, and mathematics.
The Reserve Officers' Training Corps (ROTC) program complements a student's chosen field of study by developing the leadership skills required in a leader. Lower division courses are open to all students with no military obligation. The program emphasizes leadership development through a combination of campus and off-campus classes and activities. Students may apply for 4, 3 and 2 year Army scholarships. Students who complete the program are eligible for a commission as a second lieutenant in the Active Army, Army Reserve or Army National Guard.

In supporting Cameron's role as an interactive university the School creates, transmits and utilizes existing and new basic and applied knowledge in meeting the needs of its constituents (students, citizens, organizations) in the University's Southwest Oklahoma regional service area, and beyond. In addition, the School is regularly involved in a wide variety of outreach activities and programs such as presentations at schools, camps, conferences, seminars, symposia and workshops.
DEPARTMENT OF
AGRICULTURE

Chair - Leon Fischer, Associate Professor
Professor: Dodd
Associate Professor: Schroeder
Assistant Professors: Dorsey and White

The Agriculture Department offers the Bachelor of Science Degree with a major in Agriculture. Students majoring in Agriculture must choose a concentration in Agricultural Mechanization, Agronomy, Animal Science or Environmental Science. Majors may also elect the Agricultural Business Management option with any concentration or the Environmental Science option. Courses required of the agriculture major are chosen to achieve breadth of coverage of the agricultural and environmental sciences. The major is designed to prepare the graduate for careers in business, service, and agricultural production. Graduates are employed by government agencies such as the Natural Resources Conservation Service and the Farm Services Administration, in commercial banking institutions and with cooperative lenders such as Production Credit Associations or Federal Land Banks. Graduates may find employment as technical representatives for firms that manufacture and/or distribute seed, fertilizer, and agrichemicals. Nationwide, many graduates are employed in the agricultural industries which process and market food. Those with agriculture degrees will also find opportunities as managers of production agriculture firms or they may establish and own farms and ranches. The agriculture major includes many courses that satisfy requirements for entry into schools of veterinary medicine. The program also prepares graduates for entry into Masters degree programs in the agricultural, environmental and natural resource sciences.

BACHELOR OF SCIENCE DEGREE
MAJOR IN AGRICULTURE (400)

I. GENERAL EDUCATION REQUIREMENTS .......................... 50 hours
General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 42-71 hours

Required Core Courses ................................................. 5 hours
AGRC 2423, AGRC 4572

Required Core Electives ............................................... 23-25 hours
AGRC 1124, AGRC 1214, AGRC 1334, AGRC 2124,
AGMC 1413, ENSC 2004, ESCI 1135

Recommended Support Courses
CHEM 1364/1361, CHEM 1474/1471*, CHEM 3345 or
CHEM 3314 and 3324, STAT 3013
*Required for CHEM 2113, CHEM 3334, CHEM 3314, CHEM 3324

Concentrations and Options
Majors must select from one of the following concentrations or options:

Animal Science Concentration ............................................ 14 hours
AGRC 1124 plus 14 hours from the following:
ANIM 3102, ANIM 3112, ANIM 3133, ANIM 3653, ANIM 4113,
ANIM 4123, ANIM 4133, ANIM 4333, ANIM 4423, ANIM 4434,
other courses approved by the Chair.

Agronomy Concentration .................................................. 14 hours
AGRC 1214, AGRC 2124 plus 14 hours from the following:
AGRN 3213, AGRN 3312, AGRN 3434, AGRN 3513, AGRN 3683,
AGRN 4123, AGRN 4223, AGRN 4234, AGRN 4673, other courses approved by the Chair.

Agriculture Mechanization Concentration ............................ 14 hours
AGMC 1413 plus 14 hours from the following:
AGMC 3123, AGMC 3152, AGMC 3172, AGMC 3223, AGMC 4203,
AGMC 4702, AGMC 4802, other courses approved by the Chair.

Agriculture Business Management Option ............................ 41 hours
Choose concentration from above.

Required Courses: AGRC 1334 plus AGRC 3303, AGRC 3413,
ACCT 2013, BUS 3213, MGMT 3013, MKTG 3413

Electives: Choose 9 hours from the following:
FIN 2643, FIN 2813, FIN 3313, FIN 3603, FIN 3623, MKTG 3433,
MKTG 3533, other courses approved by the Chair.

Environmental Science Option ........................................... 29 hours

Required Courses: AGRC 1214, AGRC 2124, ENSC 2004,
CHEM 1364/1361, CHEM 1474/1471

Electives: Choose 19 hours from the following:
AGRN 3434, AGRN 3683, AGRN 4223, BIOL 2124,
CHEM 2113, CHEM 3334, other courses approved by the Chair.

No minor is required for either the Agriculture Business Management option or the Environmental Science option.

III. MINOR ............................................................... 18 hours

IV. ELECTIVES TO COMPLETE 128 SEMESTER HOURS REQUIRED FOR GRADUATION.

AGRICULTURE COURSES (AGRC)

1123 LIVESTOCK FEEDING, 3 hours credit
An elementary study of livestock feeding problems. The selection and preparation of feeds for the different classes of livestock. Practical feeding methods, balancing rations for various kinds of livestock. Lecture 3 hours.

1124 INTRODUCTION TO ANIMAL SCIENCE, 4 hours credit
Species adaptability, product standards and requirements, areas and types of production, processing and distribution of products; (includes meat animals, dairy and poultry). Lecture 3 hours, laboratory 2 hours.
1214 INTRODUCTION TO PLANT SCIENCE, 4 hours credit
Factors determining growth, distribution, culture, improvement and utilization of economic plants. Lecture 3 hours, laboratory 2 hours.

1334* INTRODUCTION TO AGRICULTURE ECONOMICS, 4 hours credit
A study of economic principles as they relate to the national economy, production, marketing and consumption of agricultural products. Lecture 4 hours.

2124* FUNDAMENTALS OF SOIL SCIENCE, 4 hours credit
A general course dealing with the origin, chemical, physical, and biological properties of soils in relation to plant growth, engineering and environmental uses. Lecture 3 hours, laboratory 2 hours. Prerequisite: CHEM 1004 or equivalent.

2423 COMPUTERS IN AGRICULTURE, 3 hours credit
An introduction to the uses of microcomputers in agricultural decision-making and management. Hardware selection, agricultural application programs, and multipurpose software such as electronic spreadsheets, data-based management packages, national data networks, and word processing will be studied as applied to the agricultural industry. Lecture 1 hour, laboratory 4 hours.

3303 PRINCIPLES OF AGRICULTURAL MARKETING, 3 hours credit
Analysis of the marketing system; its importance to the economy and the role of the individual firm. Understanding of basic concepts, problems, and decision aids is emphasized. Lecture 3 hours. Prerequisite: AGRC 1334.

3413 FARM AND RANCH MANAGEMENT, 3 hours credit
Production planning with budgeting, market planning, financial records, and income tax management for the individual farm-ranch business. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1334.

4112 PRACTICUM, 2 hours credit
The practical application of selected technical agricultural competencies with emphasis on those that are important for prospective teachers of vocational agriculture. The development of individual competencies in technical agriculture, excluding agricultural mechanics. Laboratory 4 hours. Prerequisites: AGRC 1124, 1214, 2124.

4321-4 SPECIAL STUDIES IN AGRICULTURE, 1-4 hours credit
Independent study based on the review of literature, laboratory problems, or field investigations.

4571-2 AGRICULTURAL SEMINAR, 1-2 hours credit
Review and discussion of current research papers, research work and problems in agriculture. Lecture 2 hours. Prerequisite: senior standing.

AGRICULTURAL MECHANICS COURSES (AGMC)

1413 INTRODUCTION TO MECHANIZED AGRICULTURE, 3 hours credit
The use of power, machines and engineered systems for production and utilization of agriculture products. Lecture 2 hours, laboratory 2 hours.

2002 CONSERVATION SURVEYS AND TECHNOLOGY, 2 hours credit
Use of the farm level; mechanical methods of erosion control including terracing and farm pond planning. Lecture 1 hour, laboratory 2 hours.

3123 AGRICULTURAL CONSTRUCTION SKILLS AND PROCESSES, 3 hours credit
Fundamental principles and basic skills in Agricultural Mechanics, including wood construction, concrete, masonry, power tools, numbering and plan reading. Lecture 2 hours, laboratory 3 hours. Prerequisites: Junior standing or permission of instructor.

3152 ELECTRICITY IN AGRICULTURE, 2 hours credit
Electricity applied to the farm and rural home including farmstead distribution and use and National Electrical Code requirements. Laboratory activities include simple circuits, practical wiring, home wiring, planning, electric motors, water systems and controls. Lecture 1 hour, laboratory 2 hours. Prerequisites: MATH 1513 or equivalent.

3172 MECHANIZED FEED HANDLING, 2 hours credit
The planning and selection of feed and grain handling systems for agricultural production and processing agricultural products including functional, environmental and structural requirements. Laboratory activities include materials selection, farmstead and feedlot layouts. Lecture 1 hour, laboratory 3 hours. Prerequisites: MATH 1513 or equivalent.

3223 AGRICULTURAL MECHANICS SKILLS, 3 hours credit
Subject matter and skills used in teaching agricultural mechanics such as fundamental hot and cold metal working, plumbing, welding applications and selection of materials applicable to agriculture. Lecture 2 hours, laboratory 3 hours. Prerequisites: Junior standing or permission of instructor.

4203 DRAINAGE AND IRRIGATION PRINCIPLES, 3 hours credit
Sources, measurement and efficient use of irrigation water. Selection of pumping plants and power units. Layout and management of irrigation systems. Lecture 2 hours, laboratory 2 hours. Prerequisites: MATH 1513 or equivalent and AGMC 2002.

4702 TRACTOR PRINCIPLES, 2 hours credit
The principles, operation, performance, maintenance and management of tractors. Gasoline and diesel engines will be studied. Laboratory activities involve engines, power trains, hydraulic systems, electrical systems and tractor performance. Laboratory 4 hours. Prerequisite: Junior standing or permission of instructor.

4802 MACHINERY MANAGEMENT AND SYSTEMS PLANNING, 2 hours credit
Identification and utilization of variables in agricultural production systems. Determination of optimum size and combinations of equipment layout and selection of equipment for efficient production. Lecture 2 hours. Prerequisite: AGMC 4702.

AGRONOMY COURSES (AGRN)

3213 FORAGE, RANGE, AND PASTURE CROPS, 3 hours credit
Principles of production management, utilization, and improvement of forages for livestock. Lecture 3 hours. Prerequisites: AGRC 1214 and junior standing.

3312 CROP SCIENCE LABORATORY, 2 hours credit
Application of principles of field crop science in laboratory and field to include seed and plant identification, implementation calibration, and field research techniques. Laboratory 4 hours. Prerequisites: Concurrent enrollment in AGRN 3213, 3523, 4123, or 4673.

3434* SOIL MORPHOLOGY, GENESIS, AND CLASSIFICATION, 4 hours credit
Taxonomy of Soils. A study of the internal differentiating characteristics of soils and their causal processes; the U. S. comprehensive system of soil classification; soil survey techniques. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124 and Junior standing.

3513 FIBER AND OILSEED CROPS, 3 hours credit
Principles of Fiber and oilseed crop production, distribution, classification, and improvement. Lecture 3 hours. Prerequisites: AGRC 1214 and Junior standing.

3683 SOIL PHYSICAL PROPERTIES, MANAGEMENT, AND CONSERVATION, 3 hours credit
Identification, description, maintenance and management of soil physical properties. Management and conservation of soil resources. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 2124.
4103 PRECISION AGRICULTURE, 3 hours credit
A course designed for students who desire to understand the acquisition and analysis of geographically referenced data for the management of crop production systems. Topic include: mapping, map projections, implementation of global positioning systems, data formats, geographic information systems, grid sampling, soil fertility and physical properties, yield monitoring, variable-rate application, crop modeling and economics. Lecture 3 hours.

4123* PRINCIPLES OF PLANT PHYSIOLOGY, 3 hours credit
Functions, nutrition, metabolism, and development of higher plants, including water relations, photosynthesis, respiration and growth. Cross-listed as BIOL 4163. Lecture 3 hours. Prerequisite: AGRC 1214 or BIOL 1114.

4123 PESTICIDES, 3 hours credit
Identification, distribution, characteristics, and methods of controlling pests. Lecture 3 hours. Prerequisites: CHEM 1004 and AGRC 1214.

4223 SOIL FERTILITY AND MANAGEMENT, 4 hours credit
Mineral nutrition of plants grown in soil. Soil forms of elements essential for plant growth, factors affecting their availability to higher plants, and their chemical/biological transformations in the soil. Evaluation of soil fertility; fertilizer manufacture and use. Lecture 3 hours, laboratory 2 hours. Prerequisites: AGRC 2124 and junior standing.

4673 GRAIN CROPS, 3 hours credit
Principles of grain crop production, classification, and improvement. Lecture 3 hours. Prerequisites: AGRC 1214 and junior standing.

ANIMAL SCIENCE COURSES (ANIM)

3102 LIVESTOCK EVALUATION, 2 hours credit
Instruction in selection, evaluating, fitting, showing, and judging of livestock. Laboratory 4 hours.

3112 ADVANCED LIVESTOCK EVALUATION, 2 hours credit
This course is a continuation of ANIM 3102. Laboratory 4 hours. Prerequisite: ANIM 3102.

3133 BREEDS OF LIVESTOCK, 3 hours credit
Study of the origin, history, development and characteristics of livestock breeds and of the specific purposes of each breed. Lecture 3 hours. Prerequisite: AGRC 1124.

3143 EQUINE SCIENCE, 3 hours credit
Scientific principles of equine anatomy, physiology, genetics, reproduction, breeding, nutrition, and health; current management practices based on these principles. Overview of the equine industry including career choices.

3653 APPLIED NUTRITION, 3 hours credit
Basic principles of animal nutrition including composition, characteristics, digestion, absorption, and metabolism of various feedstuffs and ration additives, qualitative and quantitative nutrient requirements of each of the classes of livestock, formulation of rations for each of the classes of livestock. Lecture 2 hours, laboratory 2 hours. Prerequisites: AGRC 1124 and CHEM 1364/1361.

4113 BEEF CATTLE SCIENCE, 3 hours credit
Application of scientific principles and recent advances to the production, feeding, breeding, management, and marketing of commercial and purebred cattle. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653, 4434 and senior standing.

4123 SWINE SCIENCE, 3 hours credit
The application of genetics, physiological, nutritional and engineering principles to the efficient production of swine. Swine evaluation and marketing. Lecture 2 hours, laboratory 2 hours. Prerequisites ANIM 3653 and ANIM 4434.

4133 SHEEP SCIENCE, 3 hours credit
Breeding, feeding, management, and marketing of commercial and purebred sheep. Lecture 2 hours, laboratory 2 hours. Prerequisites: ANIM 3653, and ANIM 4434.

4333* PHYSIOLOGY OF DOMESTIC ANIMALS, 3 hours credit
The comparative physiology of digestion, circulation, production, reproduction and environment of farm animals. Lecture 3 hours. Prerequisites: CHEM 1004 and AGRC 1124.

4423 LIVESTOCK DISEASES AND SANITATION, 3 hours credit
The recognition and study of common diseases and parasitic infestations together with their prevention and control in domestic animals. Lecture 3 hours. Prerequisite: AGRC 1124.

4434 ANIMAL REPRODUCTION, 4 hours credit
Physiological processes of reproduction in farm animals, gonadal function, endocrine relationships, fertility, and factors affecting reproduction efficiency. Emphasis is given to principles of artificial insemination in the laboratory. Lecture 3 hours, laboratory 2 hours. Prerequisite: AGRC 1124 and Junior standing.

EARTH SCIENCE COURSE (ESCI)

1135* EARTH SCIENCE, 5 hours credit
A survey of earth and environmental sciences including topics selected from geology, meteorology, climatology, oceanography, and astronomy. Lecture 4 hours, laboratory 2 hours.

ENVIRONMENTAL SCIENCE COURSE (ENSC)

2004 INTRODUCTION TO ENVIRONMENTAL SCIENCE, 4 hours credit
An introductory course that emphasizes the impacts of increasing human populations and resource consumption patterns on the world’s atmosphere, soils, oceans, agricultural and native land based ecosystems, biological diversity, and the health and welfare of humans. Themes and means of sustainable development and uses of resources, environmental policy, and global change are repeated throughout the course. Lecture 4 hours.

3103 PRINCIPLES OF WATER RESOURCES, 3 hours credit
An introduction to the science and policy related to managing fresh water resources. Fundamental hydrologic processes, how the United States has managed water throughout history, and the environmental impact of water resources management. Lecture 3 hours.
3213 PROPAGATION OF ORNAMENTAL PLANTS, 3 hours credit
The investigation of sexual and asexual methods for propagating ornamental plants. Special emphasis on practical applications of propagating plants, from seeds and cuttings and by grafting, budding, and layering techniques. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRC 1214 and HORT 2102.

4204 GREENHOUSE PRODUCTION, 4 hours credit
Examines practices related to the production of major floricultural crops. Consideration of production requirements, environmental management, cultural techniques, and business procedures which affect the production of greenhouse crops. Lecture 3 hours, laboratory 2 hours. Prerequisite: HORT 3213 and HORT 2102.

4313 NURSERY OPERATIONS AND PRODUCTION, 3 hours credit
A study of the nursery industry including container and field production of landscape plants. Emphasis on soil and media selections, use of fertilizers, pest control, control of plant environments and development of watering systems. Grading and selection of plants, nursery organization and scheduling, and marketing techniques will be included. Lecture 2 hours, laboratory 2 hours. Prerequisite: HORT 3213 and HORT 3115, and AGRC 2124.

4413* LANDSCAPE DESIGN, 3 hours credit
The development of landscape designs and plans. Emphasis on landscape analysis, small landscape plans, effective use of plant materials and structural features in the landscape. Lecture 1 hour, laboratory 4 hours. Prerequisite: HORT 3115 and AGMC 2002. CAD 1013 recommended.

4453 LANDSCAPE DEVELOPMENT AND MAINTENANCE, 3 hours credit
Landscape development and maintenance operations with emphasis on the planting and care of plants and turf areas in small scale landscapes. Lecture 2 hours, laboratory 2 hours. Prerequisite: HORT 2102 and AGRC 2124.

* Liberal arts and sciences course.
IV. ADDITIONAL REQUIREMENTS
MATH 1613 or higher (MATH 1813 will not satisfy these requirements.)
PHYS 1115 or PHYS 1235 or 2025
CHEM 3314, 3324, 4403 and CHEM 4413 (Cell and Molecular concentration only.)

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

BACHELOR OF SCIENCE DEGREE
MAJOR IN BIOLOGY EDUCATION (315)

I. GENERAL EDUCATION REQUIREMENT
General Education requirements are found on the red striped pages.
This degree requires specific courses for general education. Please check with the department for these requirements.
Minimum of 74 hours

II. MAJOR

Required Core Courses
BIOL 1474, BIOL 2034, BIOL 2124, BIOL 2134, BIOL 2144, BIOL 2154, BIOL 3014, BIOL 3044, BIOL 4122, BIOL 4772, and CHEM 1474/1471.
41 hours

Required Education Courses
EDUC 1800, EDUC 3003, SPED 3103, EDUC 3733, EDUC 3753*, EDUC 3673, EDUC 4653*, EDUC 4313*, EDUC 3612**, EDUC 4965**, EDUC 4975**
*Restricted to those students who have been admitted to Teacher Education. See page 52 of this catalog or the undergraduate education advisor for admission requirements.
**Courses taken during professional semester.
33 hours

III. ADDITIONAL REQUIREMENTS
Biology Education candidates must achieve a grade of C or better in all major courses (required core courses and required education courses) in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Biology Education candidates must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by passing a Department of English and Foreign Languages proficiency test or by taking a foreign language course.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in Biology will be eligible to apply for a standard teaching license.

BACHELOR OF SCIENCE DEGREE
MAJOR IN MEDICAL TECHNOLOGY (570)

Medical technologists work primarily in hospital laboratories (clinical chemistry, microbiology, blood banking, immunology, etc.). The bachelor's program in medical technology consists of three academic years of course work at Cameron (see below) and a year of work under the direction of hospital personnel at any hospital approved by the National Accrediting Agency for Clinical Laboratory Science.

I. GENERAL EDUCATION REQUIREMENT
General Education requirements are found on the red striped pages.

II. MAJOR

Required Courses

Biology
BIOL 1474, BIOL 2124 or BIOL 3154, BIOL 2134 or BIOL 4004, BIOL 3014, and BIOL 3093.
20 hours

Chemistry
CHEM 1474/1471, CHEM 3314, CHEM 3324, CHEM 4403, and CHEM 4413.
18 hours

30 hours

10 hours

E Electives must be selected from BIOL, CHEM, MATH, and/or PHYS and approved by advisor.

III. ADDITIONAL REQUIREMENTS
BIOL 1364, CHEM 1364/1361 (or 1015), and MATH 1513.

BIOLOGY COURSES (BIOL)

1004* GENERAL BIOLOGY, 4 hours credit
A life science laboratory course for non-science majors. Students should learn the principles of cell structure/function, genetics, evolution and organismal diversity, ecology, and the scientific method. Such principles will be applied in discussions of biotechnology, conservation of biodiversity and natural resources, human population growth, and global environmental changes. Not applicable to Biology major or minor or Medical Technology major. Lecture 3 hours, laboratory 2 hours.

1012 ESSENTIAL HUMAN ANATOMY & PHYSIOLOGY, 2 hours credit
Introductory one-semester survey of the structure and function of the human body, with emphasis on internal organs. Lecture only. Strongly recommended for students requiring math/English remediation before taking BIOL 2034 and BIOL 2134. Does not fulfill pre-health-career requirements (pre-nursing, pre-physical therapy, etc.) except for respiratory care.

1114* PLANTS AND CULTURE, 4 hours credit
A survey and classification of the animal kingdom stressing the animals from the simple to the complex; to develop an appreciation of animal life as it relates to human understanding and welfare. Lecture 3 hours, laboratory 2 hours. Not applicable to Biology or Medical Technology major or minor.

1124* GENERAL ZOOLOGY, 4 hours credit
A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in Biology will be eligible to apply for a standard teaching license.

1364* PRINCIPLES OF BIOLOGY I, 4 hours credit
An introduction to the physical, chemical and biological principles associated with life from the subcellular to ecosystem level. Lecture 3 hours, laboratory 2 hours. Not applicable to Biology or Medical Technology major or minor.

1474* PRINCIPLES OF BIOLOGY II, 4 hours credit
A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364.

2013 MEDICAL TERMINOLOGY, 3 hours credit
An introduction to the prefixes, roots, and suffixes used to construct medical terms. A systems approach will be used to survey the basic anatomy and physiology of the human body, followed by selected terms defining the pathology, diagnostic procedures, and treatment procedures of each system. Emphasis will be on learning to pronounce, spell, and define all terms. Lecture 3 hours.

2034* HUMAN ANATOMY, 4 hours credit
Introductory anatomy with emphasis on histology and human gross anatomy. Lecture 3 hours, laboratory 3 hours. Will not satisfy General Education science credit.
2044* BIOLOGICAL TECHNIQUES, 4 hours credit
Theoretical and practical considerations of laboratory skills required for biological experimentation and medical technology. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474.

2121-2 SPECIAL STUDIES, 1-2 hours credit
Selected topics in biology which may include lecture, laboratory and/or field trips. Will not satisfy General Education science requirements. May be repeated for a maximum of 3 credit hours.

2124* INTRODUCTION TO MICROBIOLOGY, 4 hours credit
A survey of the principles and techniques of microbiology with emphasis on disease prevention and health maintenance. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHEM 1364 and CHEM 1361. Will not satisfy General Education science requirements. Biology majors are expected to complete this course as part of their core requirements and following CHEM 1364/1361 and BIOL 1364 and BIOL 1374 as prerequisites.

2134* HUMAN PHYSIOLOGY, 4 hours credit
Emphasis is on concepts and principles that serve as a foundation for understanding human physiology. Laboratory experiences demonstrate physiological mechanisms and serve as a basis for understanding clinical applications of physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1364 & BIOL 1474 or BIOL 2034 and CHEM 1364 and CHEM 1361. Will not satisfy General Education science requirements.

2144* BOTANY, 4 hours credit
A survey of the plant kingdom stressing structure, function, life histories, and ecology. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474.

2154* ZOOLOGY, 4 hours credit
A phylogenetic and comparative survey of the animal kingdom that treats evolutionary, ecological, zoogeographical and morphological aspects of each phylum. Emphasis is on classification as it reflects evolutionary adaptation. Economic impact of wild animals on society and natural resource conservation are considered. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474.

2444* ENVIRONMENT AND MAN, 4 hours credit
The application of ecological concepts and principles to concerns such as human population growth, resource management, and pollution. Lecture 3 hours, laboratory 3 hours. Prerequisite: one course in Biological Sciences. Will not satisfy General Education Requirements.

2881 BIOLOGY SEMINAR, 1 hour credit
A general seminar course for biology majors. Prerequisite: 20 hours of biology core courses (BIOL 1364, BIOL 1474, BIOL 2124, BIOL 2144, BIOL 2154 or concurrent enrollment).

3004* PHYCOLOGY, 4 hours credit
Morphology, classification and ecology of the fresh water algae. Lecture 3 hours, laboratory 3 hours and field trips. Prerequisite: BIOL 2144.

3014* PRINCIPLES OF GENETICS, 4 hours credit
A general course in the cellular and molecular mechanisms of heredity. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124.

3024* ENTOMOLOGY, 4 hours credit
Structure, life history, and recognition of common insects. Lecture 3 hours, laboratory 3 hours, field trips. Prerequisite: BIOL 2154.

3034* DEVELOPMENTAL BIOLOGY, 4 hours credit
The development of the vertebrate body from gametogenesis through early organ formation. Primary emphasis on development of fish, frog, chick and pig. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2154 and BIOL 3014.

3044* EVOLUTION, 4 hours credit
Historical development of evolutionary concepts. Theories to account for speciation, evolutionary mechanisms and phylogenetic relationships. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2124 and BIOL 2144 or BIOL 2154.

3054* PLANT TAXONOMY, 4 hours credit
Classification of flowering plants with emphasis on the flora of the area. Lecture 3 hours, laboratory 3 hours, and field trips. Prerequisite: BIOL 2144.

3064* ECOLOGY, 4 hours credit
General principles of biotic and abiotic interrelationships including sampling techniques, productivity, energy flow, interspecific association and biomes. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144 or BIOL 2154.

3074* NATURAL HISTORY OF THE VERTEBRATES, 4 hours credit
Ecology, taxonomy and life histories of vertebrates. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154.

3084* ORNITHOLOGY, 4 hours credit
Identification, ecology, distribution and population dynamics of birds, with emphasis on locally occurring species. Family and ordinal characters are stressed. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: BIOL 2154.

3093* IMMUNOLOGY, 3 hours credit
Nature and mechanisms of natural and acquired resistance including humoral and cellular immunity. Characteristics of antigens and antibodies and of their interaction; transplantation reactions and hypersensitivities. Lecture 3 hours. Prerequisite: BIOL 3014.

3104* COMPARATIVE VERTEBRATE ANATOMY, 4 hours credit
Functional morphology and evolution of organ systems in representative chordates. This course emphasizes biomechanics and environmental adaptation, and fulfills the needs of pre-professionals and biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154.

3114* MAMMALOLOGY, 4 hours credit
Classification, life histories, and distribution of mammals. Methods of collection and preservation. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: BIOL 2154.

3124* HISTOLOGY, 4 hours credit
Structure of animals at tissue and organ levels with emphasis on recognition and function of mammalian tissues and organs. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2034 or BIOL 2154.

3134* INVERTEBRATE ZOOLOGY, 4 hours credit
Morphology, taxonomy, natural history, and evolutionary relationships of the invertebrates. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154.

3144* MOLECULAR CELL BIOLOGY, 4 hours credit
A comprehensive course emphasizing the biology, biochemistry, physiology and genetics of microorganisms, especially the bacteria. Laboratory deals with the distribution, cultivation and identification of microorganisms. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2144 or BIOL 2154 and CHEM 3324 or concurrent enrollment.

3174* MOLECULAR CELL BIOLOGY, 4 hours credit
Structural and functional organization of cells in terms of their organelles, molecules, and control mechanisms. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314 or concurrent enrollment.
4004* PHYSIOLOGY, 4 hours credit
Homeostatic mechanisms of human organ systems are emphasized, including some aspects of comparative physiology. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 and CHEM 3324 or concurrent enrollment. BIOL 3174 and CHEM 4403 are recommended.

4014* HERPTETOLOGY, 4 hours credit
Taxonomy, distribution, natural history of amphibians and reptiles with emphasis on local forms. Techniques of collection and preservation. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154.

4024* ICHTHYOLOGY, 4 hours credit
Taxonomy, morphology and ecology of fishes, with emphasis on local forms. Techniques of collection and preservation. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2154.

4054* VASCULAR PLANT MORPHOLOGY, 4 hours credit
Morphology, evolution and ecology of vascular plants. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2144.

4064* ADVANCED ECOLOGY, 4 hours credit
Ecological principles as related to population dynamics, ecosystems, effects of radiation and pollution. Emphasis on production, energy flow, and cycling within ecosystems. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: BIOL 3064.

4084* ANIMAL BEHAVIOR, 4 hours credit
Behavioral adaptations of diverse animal species. Emphasis is placed on the ecological, physiological, and evolutionary aspects of behavior. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 3064.

4094* LIMNOLOGY, 4 hours credit
An introduction to the biological, chemical, and physical features of freshwater lakes, ponds, and streams, with emphasis on methods. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2144 and BIOL 2154 and CHEM 1474 and CHEM 1471.

4104* HISTORY AND LITERATURE OF BIOLOGY, 4 hours credit
The development of biological science through the classical and modern periods. The use of the library as a research tool, and familiarization with library resources. Lecture 3 hours, laboratory-library 3 hours. Prerequisite: BIOL 2144 and BIOL 2154.

4114* ADVANCED MICROBIOLOGY, 4 hours credit
This course will present a modern view of advanced topics in microbiology, such as advanced bacteriology, virology, and microbial genetics. This course is intended for biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2124 and CHEM 3314.

4121-4 SPECIAL STUDIES, 1-4 hours credit
Term paper and/or oral examination required. Prerequisite: department permission.

4154* BIOMETRY, 4 hours credit
An introduction to the application of basic probability theory, descriptive statistics, and statistical inference, including estimation and hypothesis testing, to biological data. Analysis of variance and regression analysis of simple experimental designs are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 2144 and BIOL 2154.

4163* PRINCIPLES OF PLANT PHYSIOLOGY, 3 hours credit
Functions, nutrition, metabolism, and development of higher plants, including water relations, photosynthesis, respiration and growth. Cross-listed as AGRN 4123. Prerequisite: AGRC 1214 or BIOL 2144.

4174* CELL STRUCTURE AND FUNCTION, 4 hours credit
Structural and functional organization of cells in terms of their organelles, molecules, and control mechanisms. The cell cycle, cellular differentiation and cellular interactions are also considered. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014 or BIOL 3174 and CHEM 3324 or concurrent enrollment. CHEM 4413 is recommended.

4772 TEACHING OF BIOLOGY, 2 hours credit
Methods and materials in secondary education. Lecture 2 hours. Taught during fall semester only. Teacher certification students must be admitted to teacher education prior to enrollment in this course.

4901* BIOLOGY CAPSTONE COURSE, 1 hours credit
Required of all biology majors for graduation. Course serves to integrate the biology curriculum, enhance critical analysis skills, promote leadership and an appreciation of ethical and philosophical considerations, and hone modern communication skills. Program assessment is also a component. Prerequisites: BIOL 2881, senior standing in biology, and department permission.

MEDICAL TECHNOLOGY COURSES (MT)

4117 CLINICAL MICROBIOLOGY, 7 hours credit
The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi and parasites. Includes isolation, identification, antimicrobial susceptibility testing, and medical significance. Department permission required. Lecture/laboratory.

4125 CLINICAL CHEMISTRY, 5 hours credit
The theory and laboratory methodology of analytical biochemistry, clinical microscopy, routine and special procedures and medical significance. Department permission required. Lecture/laboratory.

4236 CLINICAL IMMUNOLOGY, 6 hours credit
Systematized study of disease and abnormal derivation, maturation and function, principles of homeostasis; methodology used in routine and special hematology studies; and correlation of hematological findings with physiological conditions. Department permission required. Lecture/laboratory.

4246 CLINICAL IMMUNOLOGY II, 6 hours credit
The theory of immunologic responses and procedures used in serological determinations; the study of immunohematology, fundamentals of antigen-antibody reactions, blood groups and types, compatibility testing, blood components, and the laboratory methods used as they relate to the medical significance of immunology and infectious disease. Department permission required. Lecture/laboratory.

4325 CLINICAL CHEMISTRY II, 5 hours credit
The theory and laboratory methodology of analytical biochemistry, instrumentation, and lab mathematics, routine and special procedures and medical significance. Department permission required. Lecture/laboratory.

4351 TOPICS IN MEDICAL TECHNOLOGY, 1 hour credit
Principles and practices of the medical laboratory including basic management, special education methodology, and special projects in selected areas. Department permission required. Lecture/laboratory.

* Liberal arts and sciences course.
The Department of Computing and Technology provides Associate in Applied Science degrees in Computer Aided Design Drafting, Computer Information Systems, Electronic Engineering Technology, Information Technology, and Applied Technology. Bachelor of Science Degrees are offered with studies in Computer Science, Computer Information Systems, Information Technology, and Technology. Pre-professional course offerings are provided for students who want to transfer to architecture and aerospace, civil, electrical, or mechanical engineering programs.

Students who have completed an Associate in Applied Science Degree from any regionally accredited college or university may use the technical specialty portion of that degree toward the MAJOR-MINOR requirement for the B.S. degree in Technology at Cameron.

**BACHELOR OF SCIENCE DEGREE PROGRAMS**

Baccalaureate degree programs are designed to provide students with advanced theoretical and/or technical expertise, prepare students for supervisory or managerial positions, and prepare students to be successful in graduate school. Program requirements are flexible to allow students to select courses to meet individual goals or respond to employment trends in emerging technology areas.

**BACHELOR OF SCIENCE DEGREE COMPUTER INFORMATION SYSTEMS (411)**

The Computer Information Systems program builds on knowledge learned in the associate degree program and provides new areas of study. Upper level courses in computer graphics, computer center management, and advanced systems and programming, along with additional studies from business areas, enable students to develop the skills necessary to consider supervisory and management career paths in the computer information industry.

I. GENERAL EDUCATION REQUIREMENT ........................................... 50 hours

II. MAJOR-MINOR .......................................................................... 60 hours

Technical Specialty ................................................................. 33 hours
CIS 1013, CIS 1063, CIS 2013, CIS 2023, CIS 2033, CIS 2063, CIS 3043, CIS 3083, CIS 4063, CIS 3023 or CIS 3093 or CIS 3183, and computer language elective.

Support Courses ................................................................. 6 hours
BUS 1113 or ACCT 2013, EET 1063 or TECH 4023.

Core Courses ................................................................. 12 hours
TECH 3013 (required). Select 9 hours from: TECH 3033, TECH 4003, TECH 4023, TECH 4033, TECH 4143, TECH 4153.

**BACHELOR OF SCIENCE DEGREE MAJOR IN COMPUTER SCIENCE (415)**

Computer Science is the study of computer technology, including hardware and software. It includes the systematic study of computing systems and computation. The body of knowledge resulting from this discipline contains theories for understanding computing systems and methods; design methodology, algorithms, and tools; methods for the testing of concepts; methods of analysis and verification; and knowledge representation and implementation. A student graduating with this degree can easily move into industry or pursue graduate studies.

I. GENERAL EDUCATION REQUIREMENT ........................................... 50 hours

II. MAJOR .............................................................................. Minimum of 40 hours

Required Courses ................................................................. 33 hours
CS 1301, CS 1313, CS 1501, CS 1513, CS 1523, CS 2401, CS 2413,
CS 2513, CS 3013, CS 3513, CS 3713, CS 3813, CS 4203

Seminars ............................................................................. 4 hours
CS 2001-3*, CS 3001-3, CS 3100, CS 4001-3, CS 3183
*No more than 2 hours at the 2000 level.

Electives ............................................................................ 3 hours
CS 3343, CS 3443, CS 3573, CS 4013, CS 4223

III. ADDITIONAL REQUIREMENTS .................................................. 16 hours

All computer science majors must complete the four courses listed below. Some students may also need to take some or all of the courses MATH 0013, Pre-Algebra, MATH 0103, Beginning Algebra, MATH 0213 Intermediate Algebra, MATH 1513 College Algebra, MATH 1613 Plane Trigonometry or MATH 1715 College Algebra and Trigonometry as prerequisites.

MATH 2215, MATH 2235, MATH 4433, STAT 3013

IV. MINOR ............................................................................. 18 hours

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

**BACHELOR OF SCIENCE DEGREE MAJOR IN INFORMATION TECHNOLOGY (414)**

The Information Technology Bachelors Degree program builds upon knowledge gained in the Associates in Applied Science in Information Technology and it provides new areas of study. Options are available in Computer Information Systems, Management Information Systems, and Information Assurance/Security. Important student outcomes for this program include significant communication and business skills required for success in industry careers.
ASSOCIATE IN APPLIED SCIENCE DEGREE

ASSOCIATE IN APPLIED SCIENCE DEGREE
MAJOR IN COMPUTER AIDED DESIGN DRAFTING (530)

Computer aided design and drafting courses prepare students for employment in the current industrial environment. The curriculum is certified by the American Design Drafting Association at the design drafter level. The design courses provide expertise in engineering methods and design decision processes.

I. GENERAL EDUCATION ................................................. 18 hours

Required Courses ..................................................... 9 hours
ENGL 1113, PS 1113 (6 hours); HIST 1483 or HIST 1493 (3 hours)

Selected Electives ..................................................... 9 hours
Behavioral Science or Economics (3 hours); ENGL 1213 or COMM 1113 (3 hours); Humanities (3 hours)

II. MAJOR ........................................................................ 43-44 hours

A. TECHNICAL CORE COURSES

Computer Aided Drafting Courses ............................... 15 hours
CAD 1013, CAD 1023, CAD 1073, CAD 2063, CAD 2073

Design and Support Courses .................................... 9 hours
EDT 2053, EDT 2103, EET 1013

B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES ...... 10-11 hours
MATH 1513, MATH 1613, PHYS 1115 or PHYS 1004

C. SPECIALTY AREA (CHOOSE ONE) ............................. 9 hours

Mechanical Specialty ................................................... 9 hours
CAD 2093, EDT 2173, CAD 2603

GIS/Mapping Specialty ............................................... 9 hours
CAD 2023, CAD 2123, CAD 2603

TOTAL ......................................................................... 61-62 hours
ASSOCIATE IN APPLIED SCIENCE DEGREE
MAJOR IN APPLIED TECHNOLOGY (595)

This degree is structured to enable a student to incorporate credit for technology skills acquired from military experience and courses at a technology and career center or similar provider of technology training. Students may be required to complete up to 12 semester hours of Cameron University courses before credit for technology component can be placed on the transcript. Active duty military personnel are exempt from that requirement.

I. GENERAL EDUCATION REQUIREMENT .......................... 18 hours

Communications ........................... 6 hours
ENGL 1113 (Required) and ENGL 1213 or COMM 1113

U.S. History ......................... 3 hours
HIST 1483 or HIST 1493

U.S. Government .................. 3 hours
PS 1113

Mathematics ......................... 3 hours
MATH 1513 or any mathematics course numbered above 1513 and approved for general education

General Education Elective .............. 3 hours
Course selected from approved general education courses in humanities, communications, English, behavioral science or economics

II. SUPPORT AND RELATED COURSES ....................... 12 hours

TECH 2033 (required). Additional 9 hours from Department of Computing and Technology or general education courses in mathematics, physical science or biology.

III. TECHNICAL-OCCUPATIONAL SPECIALTY .............. 30 hours

TOTAL ............................................. 60 hours

ASSOCIATE IN APPLIED SCIENCE DEGREE
COMPUTER INFORMATION SYSTEMS (520)

The Computer Information Systems Technology program is a business track computer programming and systems analysis curriculum. COBOL is the primary computer language used to develop the student’s business programming expertise. Classes in systems analysis, telecommunications, database management, and advanced programming concepts prepare students for industrial employment. Students are typically able to start as entry level computer programmers with this degree.

I. GENERAL EDUCATION .......................... 18 hours

Required Courses ....................... 9 hours
ENGL 1113, PS 1113 (6 hours); HIST 1483 or HIST 1493 (3 hours)

Selected Electives ...................... 9 hours
Behavioral Science or Economics (3 hours); ENGL 1213 or COMM 1113 (3 hours); Humanities (3 hours)

II. MAJOR ............................................. 48 hours

A. TECHNICAL SPECIALTY .......................... 33 hours

Required Courses ....................... 24 hours
CIS 1013, CIS 1063, CIS 2013, CIS 2023, CIS 2033, CIS 2063 CIS 3043, and CIS 3083.

Computer Electives ..................... 9 hours
CIS 1023, CIS 2003, CAD 1013 or other courses approved by advisor.

B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES ........ 9 hours

EET 1063 (required), BUS 1113 or ACCT 2013, MATH 1513 or MATH 1813.

C. TECHNICAL-OCCUPATIONAL RELATED COURSE WORK ...... 6 hours

Approved by Department of Computing and Technology advisor.

TOTAL ............................................. 66 hours

ASSOCIATE IN APPLIED SCIENCE DEGREE
MAJOR IN ELECTRONIC ENGINEERING TECHNOLOGY (540)

Electronic Engineering Technology concepts and applications with emphasis in developing circuitry and test equipment expertise. Electronic Engineering Technology graduates are entry level electronics applications specialists. Typical career paths include computers, telecommunications, electronic controls, manufacturing, and research and development.

I. GENERAL EDUCATION .......................... 18 hours

Required Courses ....................... 9 hours
ENGL 1113, PS 1113 (6 hours); HIST 1483 or HIST 1493 (3 hours)

Selected Electives ...................... 9 hours
Behavioral Science or Economics (3 hours); ENGL 1213 or COMM 1113 (3 hours); Humanities (3 hours)

II. MAJOR ............................................. 43 hours

A. TECHNICAL SPECIALTY

Electronics .......................... 27 hours
EET 1013, EET 1023, EET 1053, EET 2013, EET 2023, EET 2133, EET 2193, EET 2243, EET 2263

B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES ........ 10 Hours

CAD 1013, CIS 2013 or CIS 2023, PHYS 1004

C. TECHNICAL-OCCUPATIONAL RELATED COURSE WORK ...... 6 hours

MATH 1513, MATH 1613 (NOTE: MATH 1715 plus 1 hour elective will satisfy this requirement)

TOTAL ............................................. 61 hours
ASSOCIATE IN APPLIED SCIENCE DEGREE
MAJOR IN INFORMATION TECHNOLOGY (514)

The Information Technology program is designed to prepare for employment requiring expertise as an information technology specialist. Graduates of this program will be successful in obtaining employment in a variety of positions in business, industry and government.

I. GENERAL EDUCATION REQUIREMENT ................................................. 18 hours

   Required Courses ................................................................. 12 hours
   ENGL 1113, ENGL 1213, PS 1113, HIST 1483 or HIST 1493

   Selected Electives .............................................................. 6 hours
   Behavioral Science or Economics (3 hours)
   Humanities (3 hours)

II. MAJOR ................................................................. 45-46 hours

   Technical Specialty ........................................................... 24 hours
   IT 1213, IT 1413, CIS 2033, IT 2063, IAS 2233, IT 2413, CIS 1013, EET 1063

   Option Specialty Courses ................................................. 9 hours
   Courses selected from CIS, MIS, or IAS
   Specialty (Advisor Approved)

   Technical-Occupational Support Courses .......................... 6 hours
   BUS 1113, MATH 1513 or MATH 1813

   Technical-Occupational Related Courses ..................... 6 hours
   COMM 1113 and one additional course selected to complement
   the student’s goals and objectives (Advisor Approved)

TOTAL HOURS ................................................................. 63-64 hours

PRE-PROFESSIONAL PROGRAMS
ARCHITECTURE AND ENGINEERING

This is a 2-year program suggested by the Department of Computing and Technology. It is the responsibility of the STUDENT to contact the college of Engineering at the transfer institution before beginning the second semester at Cameron University. Cameron University cannot guarantee Engineering requirements at the transfer institution.

TECHNOLOGY
CAD 1013

COMMUNICATIONS
ENGL 1113, ENGL 1213, COMM 1113

MATHEMATICS
*MATH 1513, MATH 1613, MATH 2215, MATH 2235, MATH 2244, MATH 3253
* These lower Mathematics courses may not count toward an Engineering or Architecture degree.

SCIENCE
CHEM 1364, CHEM 1361, CHEM 1474, CHEM 1471, PHYS 2015, PHYS 2025

GENERAL EDUCATION
PSY 1113, HIST 1483 or 1493, PS 1113, HUM 2113 or 2223

COMPUTER AIDED DRAFTING COURSES (CAD)

1013* COMPUTER AIDED DRAFTING, 3 hours credit
The use of computer systems to produce drawings in compliance with industrial standards. Emphasis on computer terminology, drafting practices, procedures, and techniques. Lecture 2 hours, laboratory 2 hours.

1023 DESCRIPTIVE GEOMETRY, 3 hours credit
Two dimensional and three dimensional solutions to problems involving points, lines, planes, contoured surfaces and developments. Problems are solved using 2D orthographic projection and 3D solids modeling computer graphics. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 1013 or equivalent.

1043 RESIDENTIAL ARCHITECTURE, 3 hours credit
The use of computer aided drafting systems to produce residential structure drawings in compliance with industrial standards. Lecture 2 hours, laboratory 2 hours.

1073 DESIGNING FOR PRODUCTIVITY, 3 hours credit
Development of working drawings emphasizing the relationship between machine tool operation and product design. An introduction to numerical control, shop practices, foundry procedures, and tool design. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 1013 or equivalent.

1073* COMPUTER-AIDED DESIGN DRAFTING CAPSTONE, 3 hours credit
Capstone course which focuses on design projects developed independently and in consultation with the Instructor. Possible topics covered but not limited to: jig and fixture design, manufacturing applications, parametric modeling, mapping, GIS, and mechanical design. Prerequisite: department permission.
COMPUTER INFORMATION SYSTEMS COURSES (CIS)

1013* INTRODUCTION TO COMPUTER INFORMATION SYSTEMS, 3 hours credit
Survey of the industry; introducing automated data processing with effects on business and society; and survey of hardware and software. Lecture 3 hours.

2001-3 SPECIAL PROBLEMS IN COMPUTER INFORMATION SYSTEMS, 1-3 hours credit
Assigned student projects which will include topics not covered in detail in the CIS curriculum and based on study needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing and departmental permission.

2013* VISUAL BASIC PROGRAMMING, 3 hours credit
Elements of VISUAL BASIC programming language. Lecture 3 hours. Prerequisite: IT 1213.

2023 BUSINESS APPLICATIONS OF C++, 3 hours credit
Elements of the C++ programming language with emphasis on business applications. Lecture 3 hours. Prerequisite: IT 1213.

2033* FUNDAMENTALS OF SYSTEMS ANALYSIS AND DESIGN, 3 hours credit
An in-depth study of the Systems Development Life Cycle (SDLC) to include study, design, development, and operation phases. A total quality management emphasis is stressed and computer assisted systems engineering (CASE) tools are introduced. Lecture 3 hours. Prerequisites: CIS 1013 and IT 1213.

2043 GRAPHIC DESIGN BASICS, 3 hours credit
Basic graphic design theory and development are studied through the use of elements of design and principles of composition as applied to information system processes. Study includes basic color theory with emphasis on using design techniques and software tools to develop graphic outputs for business. Lecture 3 hours.

2083 MANAGING THE INFORMATION TECHNOLOGY CENTER, 3 hours credit
Managing the resources of the modern Information Technology Center. Topics include: ethics, decision making control cycle, organizational structure, personnel issues, ADA, policies and procedures, and Technology Center evaluation. Lecture 3 hours. Prerequisite: CIS 2033.

3011-3 SOFTWARE APPLICATIONS (NAME OF SOFTWARE), 1-3 hours credit
A study of selected commercial software. Emphasis is on implementation, equipment requirements, integration capabilities and limitations of each software application. Course may be repeated for credit with different software packages. Prerequisites: department permission.

3023 ADVANCED BUSINESS APPLICATIONS OF C++, 3 hours credit
Emphasizes classes, objects, object-oriented programming, arrays, string processing and file manipulation. Lecture 3 hours. Prerequisite: CIS 2023.

3064 COBOL PROGRAMMING, 4 hours credit
Elements of COBOL programming language applied to business systems emphasizing file processing, control breaks, interactive processing, sub-programs and data validation. Software quality, use of multi-dimension tables, sorting and interaction with databases are covered. Lecture 3 hours, laboratory 2 hours. Prerequisite: IT 2413.

3083 DATABASE DESIGN AND MANAGEMENT, 3 hours credit
Emphasis on design and use of database systems to include UML and CASE tools. Lecture 3 hours. Prerequisite: IT 2413.

3183 STRUCTURED QUERY LANGUAGE, 3 hours credit
An in-depth study of the Structured Query Language (SQL) and relational database processing. Topics will include general application development using basic and advanced select statements. Other topics include queries involving multiple tables. Prerequisite: CIS 3083.

4013 DATA WAREHOUSING, 3 hours credit
The strategies and processes for Data Warehousing of large relational databases. Topics include: understanding the role of data warehousing to businesses, understand data warehousing as a management tool, data warehousing as an emerging architecture and a data warehouse as it is designed to support the decision support system (DSS) function. Prerequisite: CIS 3183 or department permission.

4023 DATA MINING, 3 hours credit
The strategies and processes for Data Mining of large relational databases. The major focus of this course is data mining applications related to the corporate business world. Examples of discussion areas include banking and finance, retail, and health care. Prerequisite: CIS 3183 or departmental permission.

4063 APPLIED PROBLEMS IN CIS, 3 hours credit
An applied problems course to integrate earlier studies in systems and programming into a viable and realistic approach to solving information system problems. Emphasis is placed on logical problem solving through critical thinking. Assignments are designed to simulate realistic information technology center activities from scheduled projects to emergency requests. Lecture 2 hours, laboratory 2 hours. Prerequisites: CIS 3043 and CIS 3183.

COMPUTER SCIENCE COURSES (CS)

1113 INTRODUCTION TO COMPUTER ORGANIZATION, 3 hours credit
An introductory course in hardware. Topics will include basic organization of a computer system, number representations, binary arithmetic, digital logic circuits, I/O, storage, processor, program execution, and miscellaneous hardware related issues.

1301* OPERATING SYSTEM UTILITIES I, 1 hour credit
The basic commands of the operating system currently in use. Lecture 1 hour. Co-requisite: CS 1313.

1313* COMPUTER SCIENCE I, 3 hours credit
An introduction to programming using an object-oriented language and its use in solving simple problems. Topics include: pseudo-code, control structures, functions, arrays, simple searching and sorting techniques, basic classes. Lecture 3 hours. Prerequisites: IT 1213, MATH 1513 or concurrent enrollment in MATH 1513.

1513* COMPUTER SCIENCE II, 3 hours credit
A continuation of programming using an object-oriented language. Topics include: searching, sorting, pointers, files, classes and object-oriented issues, recursion, and introduction to linked data structures. Lecture 3 hours. Prerequisites: CS 1313 or IT 1413.

1523* DISCRETE MATH, 3 hours credit
Fundamental mathematical concepts and algebraic structures. Introduction to the theory of graphs and trees. Emphasis on examples and applications rather than mathematical rigor. Lecture 3 hours. Prerequisites: MATH 1513 and CS 1313 or department permission.

1733 OPERATING SYSTEMS TECHNOLOGIES, 3 hours credit
An introduction to operating systems (Linux, Windows). Topics include: file system hierarchy, command set, application software, and administrative tasks.

2001-3 SEMINAR IN COMPUTER SCIENCE, 1-3 hours credit
Elementary current topics that are not part of the common core. Lecture 1-3 hours. Prerequisites: announced prerequisites.

2333 WEB SYSTEMS TECHNOLOGIES, 3 hours credit
An introduction to web programming. Topics will include: html, CSS, Java Script, server side scripting, cascading styles, and CGI. Emerging technologies will be covered. Prerequisite: CS 1313.
2413³ DATA STRUCTURES, 3 hours credit
An introduction to elementary data structures (stacks, queues, linked lists and trees) and their applications. A brief survey of sorting techniques. Lecture 3 hours. Co-requisite: CS 2401. Prerequisites: CS 1513 and CS 1523.

2513 COMPUTER ORGANIZATION AND ARCHITECTURE, 3 hours credit
An introduction to the computer system, central processing unit, control unit, and parallel organization. Current architectural directions will be discussed. Lecture 3 hours. Prerequisites: CS 1513.

3001-3 SEMINAR IN COMPUTER SCIENCE, 1-3 hours credit
Intermediate level current topics that are not part of a common core. Lecture 1-3 hours. Prerequisites: announced prerequisites.

3013 NETWORK PROGRAMMING, 3 hours credit
Concepts of multiprocessing and interprocess communication, networking protocol architecture, construction of client/server software using low and high level system calls. Lecture 3 hours. Prerequisite: CS 2413.

3100 COMPUTER SCIENCE INTERNSHIP, 1-3 hours credit
This course is designed to give students practical work experience and on-the-job training in the field of Computer Science. This course is offered on a S/U basis only. A maximum of 6 credits may be taken. In addition to the satisfactory completion of the approved internship, a minimum of 50 hours work per credit hour is required. Department permission is required to enroll in this course. Before the student can enroll in the course, he or she must ask the employer to issue a “Letter of Appointment” to the Department Coordinator of Computer Science regarding their intent to hire the student. The letter shall describe the conditions under which the employer will hire the intern and the nature of the internship program. Upon approval by the Computer Science Coordinator, the student will be able to enroll in this course. Prerequisite: Departmental permission and completion of substantial course work in computer science.

3183 STRUCTURED QUERY LANGUAGE, 3 hours credit
This course introduces the basic theories, concepts, skills, and techniques of data and database systems. The course will primarily focus on database design and implementation. Lecture 3 hours. Prerequisite: CS 1513.

3203 SOFTWARE ENGINEERING I, 3 hours credit
This course emphasizes the software development cycle. Topics will include: Uniform Modeling Language (UML), testing methods, and software correctness. Prerequisite: CS 2413.

3343 NUMERICAL ANALYSIS I, 3 hours credit
An introductory course in numerical analysis. Topics include: Accuracy in numerical calculations; evaluation of functions; numerical integration; solution of nonlinear equations; solution of systems of nonlinear equations and interpolation. Lecture 3 hours. Prerequisites: MATH 2235 and CS 1313 or department permission.

3443 NUMERICAL ANALYSIS II, 3 hours credit
A continuation of CS 3343. Topics include: Additional topics in numerical integration; ordinary differential equations; interpolation and curve fitting. Optional topics may include partial differential equations. Lecture 3 hours. Prerequisite: CS 3343.

3513 OPERATING SYSTEMS, 3 hours credit
Overview of hardware and software, process management, storage management, processor management, and auxiliary storage management. Lecture 3 hours. Prerequisite: CS 2413.

3573 COMPUTER GRAPHICS, 3 hours credit
Computer representation, generation and display of images. Topics included are display of 2D and 3D images; color display; algorithms, and transformations for clipping, windowing, and perspective; survey of graphics display devices; and use of graphics packages. Lecture 3 hours. Prerequisite: CS 2413.

3713 ALGORITHM ANALYSIS, 3 hours credit
A mathematical analysis of common algorithms: common searches and sorting, graphs, and string matching. An introduction to the notion of complexity. Lecture 3 hours. Prerequisites: CS 2413 and MATH 2235.

3813 PARALLEL COMPUTING, 3 hours credit
Parallel algorithms and implementations for sorting, searching, matrix processing and other problems. Efficiency issues of parallel algorithms on different architectures. Lecture 3 hours. Prerequisite: CS 2513.

4001-3 SEMINAR IN COMPUTER SCIENCE, 1-3 hours credit
Advanced level current topics that are not part of a common core. Lecture: 1-3 hours. Prerequisites: announced prerequisites.

4013 FORMAL LANGUAGE THEORY, 3 hours credit
An introduction to grammars, finite state machines, push down automata, regular languages, parsing techniques and Turing machines. Lecture 3 hours. Prerequisites: CS 1523 and CS 2413.

4203 SOFTWARE ENGINEERING II, 3 hours credit
Acquisition of the skills necessary to control complex programming projects. Lecture 3 hours. Prerequisites: CS 3203.

4223 PROGRAMMING LANGUAGES AND COMPILERS, 3 hours credit
Coverage of the concepts and constructs of the major programming paradigms and an introduction to the theory and techniques of compiler construction. Lecture 3 hours. Prerequisite: MATH 3353, elementary teaching experience, or department permission.

4233 CAPSTONE PROJECT, 3 hours credit
This course provides students the opportunity to complete a comprehensive software project. The project will be done through team effort, and may involve the use of multiple programming languages. Emphasis will be on professional communication, team work, and comprehensive utilization of computing knowledge obtained in previous courses. This is a hands-on and lecture combined course. Prerequisite: CS 4203.

4443 COMPUTER USAGE FOR ELEMENTARY TEACHERS, 3 hours credit
A course specifically designed to introduce the elementary teacher to micro-computers and programming concepts using a structured programming language (BASIC). The course includes construction of and evaluation of software suitable for use in the elementary school. Does not apply toward a major or minor in Computer Science. Lecture 3 hours. Prerequisite: MATH 3353, elementary teaching experience or department permission.

4491-3 SPECIAL PROBLEMS IN COMPUTER SCIENCE, 1-3 hours credit
Individual and group projects in computer science based on proposals by students which are approved and supervised by faculty members. May be repeated as often as desired with permission of the department chairman. Prerequisite: approval by department chairman and faculty member supervising the project.

ELECTRONIC ENGINEERING TECHNOLOGY COURSES (EET)

1013* ELECTRICITY I, 3 hours credit
Electrical principles and applications are introduced. Topics include electrical parameters and units, direct and alternating current, series and parallel circuits, resistance, capacitance, inductance, and magnetism. Lecture 2 hours, laboratory 2 hours. Prerequisite: understanding of algebraic principles.

1023 ELECTRICITY II, 3 hours credit
A continuation of EET 1013. Topics include equivalent circuits, reactance, impedance, and power factor. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 1013.
1053 ELECTRONICS I, 3 hours credit
Semiconductor electronic device characteristics, operation, and applications are introduced. Junction diodes, zener diodes, light emitting diodes, bipolar and field effect transistors, and operational amplifiers are covered. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 1013.

1063 INTRODUCTION TO NETWORKING, 3 hours credit
An overview of computer networking. Topics include network topologies, network software, the client-server model, the OSI/ISO model, network components, TCP/IP, and network security. Lecture 3 hours.

2001-3 SPECIAL PROBLEMS IN ELECTRONICS, 1-3 hours credit
Guidance in independent work. Assigned study projects to strengthen student understanding of electronic principles and applications. Lecture arranged, laboratory arranged. Prerequisites: department permission.

2013 ELECTRONICS II, 3 hours credit
A study of single and multistage electronic analog circuits. Applications include amplifiers, operational amplifier applications, power supplies, oscillators, active filters, phase-locked loops, and thyristors. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 1053.

2023 DIGITAL COMPUTER ELECTRONICS, 3 hours credit
A study of logic circuitry including integrated circuit configurations. Course topics include number systems, simplification techniques, logic gates, combination logic, and memory. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 1053.

2133 MEASUREMENTS AND CONTROLS I, 3 hours credit
The study of electronic measurement and control interfaces including pressure, level, flow, temperature, and velocity. Lecture 2 hours, laboratory 2 hours. Prerequisite: 1053.

2193 CIRCUIT APPLICATIONS, 3 hours credit
A project oriented capstone course that involves applications of electronic principles included in previous 1000 and 2000 level EET courses. Lecture 2 hours, laboratory 2 hours. Prerequisite: 12 hours of EET credit or department permission.

2243 COMMUNICATIONS CIRCUITS, 3 hours credit
The study of electronic transmitting and receiving circuits. Topics include oscillators, tuned circuits, amplifiers, and filters. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 2013.

2263 TELECOMMUNICATION SYSTEMS, 3 hours credit
A study of electronic telecommunication systems. Topics include telephone equipment, networking, signal transmission codes, and protocols. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 2013.

3133 MEASUREMENTS AND CONTROLS II, 3 hours credit
Principles and applications of electronic measurements and controls applied to industry. Modern industrial applications including programmable logic controllers and robotics are covered. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 2133.

3333 MICROPROCESSORS I, 3 hours credit
A study of microprocessors, including architecture, assembly language, programming and machine language programming. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 1053.

3473 OPTOELECTRONICS, 3 hours credit
A study of the interactions and interfacing of electronic and optic systems and signals. Course emphasizes optoelectronic emitters, receptors, signal transmissions, and video devices. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 2013.

4233 NETWORK COMMUNICATIONS APPLICATIONS, 3 hours credit
Applications of network communications systems. Topics include hardware, software, interfacing, media, and system management. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 2243 and EET 2263.

4343 MICROPROCESSORS II, 3 hours credit
A continuation of Microprocessors I with focused study emphasizing the application of microprocessors to industrial, communications, and consumer products. Lecture 2 hours, laboratory 2 hours. Prerequisite: EET 3333.

4813 SYSTEM DESIGN AND ANALYSIS, 3 hours credit
A project-oriented capstone that includes applications from previous EET courses. Students design, construct, and demonstrate electronic systems. Lecture 2 hours, laboratory 2 hours. Prerequisite: 21 hours in EET or department permission.

ENGINEERING DESIGN TECHNOLOGY COURSES (EDT)

1053* INDUSTRIAL FLUID POWER, 3 hours credit
Applied fluid mechanics involving valves, cylinders, pumps, piping standards, fluid motors, basic circuits symbols, industrial components, and commercial systems. Lecture 2 hours, laboratory 2 hours.

2001-3 SPECIAL PROBLEMS IN DESIGN, 1-3 hours credit
Assigned study projects will include topics not covered in detail in the computer aided drafting curriculum and will be based on student needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing or departmental permission.

2053 MANUFACTURING PROCESSES, 3 hours credit
An investigative study of materials that we use every day and the manufacturing processes which produce these materials. The application of these materials will also be studied. The materials to be included, but not limited to, are metals, plastics, ceramics, and composites. Lecture 3 hours.

2103 STATICS AND STRENGTH OF MATERIALS, 3 hours credit
Principles of statics, analysis of structures, and friction as applied to the incline plane and wedge. Simple direct and compound stresses, determination of structural sizes as a function of unit stress, and physical properties of the materials. Lecture 3 hours. Prerequisite: MATH 1613 or equivalent or concurrent enrollment.

2173 TOOL DESIGN, 3 hours credit
A study of machine shop practices as related to work holding devices. Design of specialized machining tools using standard industrial components is emphasized. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 1073 or equivalent.

3013 GIS APPLICATIONS, 3 hours credit
A course designed to teach applications of GIS in various fields such as engineering design, business, and agriculture. The course emphasizes on the need and methods to choose the correct GIS model to develop a successful GIS application. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 2023 or CAD 2063.

3023 COMMERCIAL ARCHITECTURE, 3 hours credit
The design of commercial buildings with emphasis on safety, durability, and comfort. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 1043.

3033 MACHINE DESIGN, 3 hours credit
The design of power transmitting machinery composed of machine elements such as gears, pulleys, and cams. Lecture 2 hours, laboratory 2 hours. Prerequisite: EDT 2103 or concurrent enrollment.
3053 COMPUTER AIDED PIPE DRAFTING, 3 hours credit
Computer Aided Drafting solutions applying piping terminology, symbols, flow diagrams, piping plans and elevations, line isometrics, and detail dimensioning. Lecture 2 hours, laboratory 2 hours. Prerequisites: CAD 1023.

3103 PROJECT MANAGEMENT, 3 hours credit
The course presents basic principles of project management, tools of project management, and the role of a project manager in the successful completion of a project. Lecture 3 hours. Prerequisite: EDT 2053.

3123 PRINTED CIRCUIT DESIGN, 3 hours credit
Computer Aided Drafting techniques used to develop printed circuit patterns. Lecture 2 hours, laboratory 2 hours. Prerequisites: CAD 1013 and EET 1013.

4001-3 ENGINEERING SYSTEMS: (TOPICS) 1-3 hours credit
A study of current topics in technology. Areas may include but not be limited to system planning, design, development, implementation, and evaluation. Concept development will be focused on customer needs and quality programs.

4013 ENGINEERING DESIGN CAPSTONE, 3 hours credit
Capstone course which uses a combination of 2D and 3D drafting and mechanical design techniques to solve advanced engineering design problems. Lecture 0 hours, laboratory 6 hours. Prerequisite: department permission.

4023 GIS DESIGN, 3 hours credit
The course covers concepts in Geodatabase design, creation of data tables and spatial relationships of features. Various aspects of information management will be studied. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 2023 or CAD 2063.

4033 CAD/CAM APPLICATIONS, 3 hours credit
A course designed to teach the use of computer aided designs and drawings to create programs for computer controlled manufacturing equipment such as lathes and milling machines. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 2073.

4043 STRUCTURAL DESIGN, 3 hours credit
The analysis, design and detailing of structural components and systems in accordance with industry standards. Problems are solved analytically and graphically using computer based CAD systems. Lecture 2 hours, laboratory 2 hours. Prerequisites: CAD 1073 and EDT 2103.

INFORMATION ASSURANCE/SECURITY COURSES (IAS)

2013* HISTORY OF INFORMATION ASSURANCE/SECURITY, 3 hours credit
The historical impact of viruses, Trojans, worms and other information security threats as well as anti-virus efforts will be examined. Students will exhibit a mastery of communication skills by writing several significant research papers and several significant oral presentations concerning the history of information assurance/security. Students will learn effective uses of technology for communicating. This is a communications intensive course. Lecture 3 hours. Prerequisite: CIS 1013 and ENG 1113.

2233* INTRODUCTION TO INFORMATION ASSURANCE/SECURITY, 3 hours credit
Best practices, basic policies and procedures, ethics, and fundamental legal issues will be explored. Risk Management and Disaster Recovery as applied to Information Assurance/Security will be investigated. Ethics and vulnerability issues will also be covered. Lecture 3 hours. Prerequisite: IT 2063.

3063 INFORMATION ASSURANCE NETWORKING FUNDAMENTALS, 3 hours credit
Students will analyze and design a secure network. Intrusion Detection, fundamental forensics, incident handling and privacy issues will be examined. Lecture 3 hours. Prerequisite: IAS 2233.

3233* INFORMATION ASSURANCE/SECURITY, 3 hours credit
Best practices, basic policies and procedures, ethics, and fundamental legal issues will be explored. Risk Assessment and Disaster Recovery as applied to Information Assurance/Security will be investigated. Ethics and vulnerability issues will also be covered. Lecture 3 hours. Prerequisite: IAS 2233.

3263 SECURITY ARCHITECTURE AND DESIGN, 3 hours credit
Students will configure a secure network and an intrusion detection system. Network monitoring plans and bandwidth management plans will be created. Policies and procedures will be created. A basic forensics data report will be designed. Lecture 3 hours. Prerequisite: IAS 3063.

4063* CURRENT TOPICS IN INFORMATION ASSURANCE AND NETWORK SECURITY, 3 hours credit
Students will research current literature and compare and summarize current Information Assurance Issues, legal issues, and events. A Disaster Recovery Plan and a Risk Assessment Plan will be created. Audit Plans will be created. Acceptable Use Policies will be assessed. Policies and procedures will be assessed. Lecture 3 hours. Prerequisite: IAS 3063.

INFORMATION TECHNOLOGY COURSES (IT)

1213* PROGRAMMING LOGIC, 3 hours credit
A basic introduction to the knowledge and skills that are used in computer programming. Topics include: the third generation programming environment, program design and pseudocode, coding, debugging, basic control structures, basic classes and objects, and methods. Lecture 3 hours.

1413* PROGRAMMING I, 3 hours credit
An introduction to programming using an object-oriented language and its use in solving simple problems. Topics include: pseudo-code, control structures, functions, arrays, simple searching and sorting techniques, basic classes. Lecture 3 hours. Prerequisites: IT 1213 and MATH 1513 or concurrent enrollment in MATH 1513.

2063 INTERNETWORKING TECHNOLOGIES, 3 hours credit
The installation, configuration, and administration of operating systems in a network of computers. Allocation of IP addresses and configuration of routers. Current and relevant software will be studied to include both server software and client software. Prerequisite: EET 1063.

2413* PROGRAMMING II, 3 hours credit
A continuation of programming using an object-oriented language. Topics include: searching, sorting, pointers, files, classes and object-oriented issues, recursion, and introduction to linked data structures. Lecture 3 hours. Prerequisite: CS 1313 or IT 1413.

3603 HUMAN COMPUTER INTERFACE DEVELOPMENT, 3 hours credit
An exploration of Graphical User Interface development and human computer interaction using a current RAD tool. Issues of good and bad design of both Web and Application GUIs. Lecture 3 hours. Prerequisite: IT 2413.

4342* LEGAL AND ETHICAL ISSUES FOR THE IT PROFESSIONAL, 2 hours credit
The course is designed to give students an ability to distinguish and analyze information systems legal, social and ethical issues. Through class lecture, case study analysis, class discussion, final project preparation, and outside readings, students will become versed in the logical/critical thinking skills required to make ethical decisions as an information technology professional. Lecture 2 hours. Prerequisite: senior standing.
4444 IT CAPSTONE, 4 hours credit
A comprehensive survey of current topics in the area of Information Technology and an integration of outcomes from earlier courses. The class will be a seminar where students will work in teams to research current issues and emerging technologies. Lecture 4 hours. Prerequisites: senior level and advisor permission.

MANAGEMENT INFORMATION SYSTEMS COURSES (MIS)

2013 PROGRAMMING I, 3 hours credit
Introduction to and use of application development tools for object-oriented programming. Emphasizes step-wise refinement of fourth generation computer languages (4GLs) and introduces CASE (Computer-Aided-Software Engineering) tools during the developmental process. Student designs elementary business solutions using general application development software, report generation, macro, query, and other application features. Lecture 3 hours. Prerequisite: CIS 1063.

2113 FUNDAMENTAL MIS TOOLS AND SKILLS, 3 hours credit
A study of major microcomputer application software packages, including operating systems, word processing, and spreadsheet software. The emphasis is on hands-on use of these packages to develop software applications for solving basic business problems. Lecture 3 hours.

3013 MANAGEMENT INFORMATION SYSTEMS, 3 hours credit
An overview of the current principles and practices of information systems and solving problems from a managerial perspective. Lecture 3 hours. Prerequisites: CIS 1013 or computer proficiency. Must have junior standing.

3021-3 BUSINESS SOFTWARE APPLICATIONS, 1-3 hours credit
A study of selected software for microcomputer systems. Course may be repeated for credit with different software packages. Lecture 1-3 hours.

3033 APPLIED DATA MODELING, 3 hours credit
Theory and concepts of database design and management. Focuses primarily on relational database modeling. Topics include Entity Relationship Diagrams; Enterprise, Conceptual, Logical, and Physical models; normalization; usage maps; implementation; and a brief exposure of SQL for data manipulation, update, and retrieval. Students will design and implement a relational database for a business application using a CASE program. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3013.

3083 SYSTEMS ANALYSIS AND DESIGN, 3 hours credit
Systems development using modern methods and tools. Recent advances in software technologies such as distributed hypermedia systems (World Wide Web), CASE tools, GUI tools, DBMSs, 4GLs, and the Systems Development Life Cycle (SDLC). Study of object-oriented development and Web-based information systems development issues. Students write a business application program. Lecture 3 hours. Prerequisite: CIS 3083 or MIS 3013.

3123 ADVANCED BUSINESS APPLICATIONS OF MICROCOMPUTER SOFTWARE, 3 hours credit
Study of advanced features of major microcomputer application software packages, including word processing, spreadsheet, graphics, and database software. Emphasis on hands-on use of these packages to develop software applications for solving complex business problems. Lecture 3 hours. Prerequisite: MIS 2113.

3223 BUSINESS DATA COMMUNICATION/TELECOMMUNICATIONS, 3 hours credit
Introduction to data communications and networking in a business environment while emphasizing current advances in telecommunications technology, regulation, and international standards. Topics include TCP/IP and the OSI model; current data communications protocols; network architecture including client/server networks; and operating systems. Student becomes conversant in data communication terminology and concepts. Knowledge and skills gained will be applied in an end-of-course business scenario. Lecture 3 hours. Prerequisite: MIS 3013.

4033 ELECTRONIC COMMERCE, 3 hours credit
This course will involve a comprehensive look at electronic commerce. Students will gain theoretical exposure to the complex field as well as practical experience in basic web programming. Course topics include: business models, revenue models, e-commerce security, payment systems, as well as legal, social and ethical issues. Lecture 3 hours. Prerequisite: MIS 2113.

4471-3 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS, 1-3 hours credit
Study of specified topics in Management Information Systems such as advanced telecommunications, advanced database, data warehousing, information security, web page design, decision support systems, and other topics. Can be repeated for maximum of nine (9) hours credit under different topic titles. Prerequisite: department permission.

4491-3 INDEPENDENT STUDY IN MANAGEMENT INFORMATION SYSTEMS, 1-3 hours credit
Independent study and/or research of specific problems or special subjects, based upon pre-approved outlines of plans, with conferences and/or written reports. Prerequisites: Nine upper division hours in the discipline of the independent study and department permission. A proposal must accompany the request when submitted for approval.

4533 APPLIED PROBLEMS IN MANAGEMENT INFORMATION SYSTEMS, 3 hours credit
A capstone course designed to integrate course work in various functional areas of MIS applications. Emphasizes teamwork, analytical and critical thinking, technical and managerial skills in the creation and management of an information systems application. Lecture 3 hours. Prerequisites: MIS 3083.

TECHNOLOGY COURSES (TECH)

2033 QUALITY CONTROL, 3 hours credit
Introduction to quality concepts in manufacturing technology, including discussion of current business/industry standards. Lecture 3 hours. Prerequisite: MATH 1513 or equivalent.

3000-3 TECHNOLOGY WORKSHOP, 0-3 hours credit
Designed to give intensive emphasis to a specific area of technology. May be repeated with a change of content for a maximum of 6 hours credit. Prerequisite: junior standing.

3013* TECHNICAL COMMUNICATIONS, 3 hours credit
Principles of organizing information into clear and concise audience centered technical reports and presentations. Writing as a process, collaboration, and presentations are emphasized. Lecture 3 hours. Prerequisite: junior standing.

3033 PRODUCTION PLANNING, 3 hours credit
A systematic approach to the factors and influences affecting quality, time, and cost of production using automated problem solving tools and team strategies. Lecture 3 hours. Prerequisite: junior standing.

4003-6 DIRECTED OBSERVATION AND ON-THE-JOB INTERNSHIP, 3-6 hours credit
Directed observation and on-the-job internship served in area directly related to the student's technical specialty. The job should be approved by the major advisor prior to starting the internship. Laboratory 6-12 hours. Prerequisites: department permission.

4023 COMPUTER GENERATED PRESENTATIONS, 3 hours credit
Study of computer generated multimedia presentations using drawing and design theory to include color, perspective, 2D and 3D rendering, and animation. Lecture 3 hours. Prerequisites: CIS 1013 or CAD 1013 or ART 1113.

4033 INDUSTRIAL MANAGEMENT SYSTEMS, 3 hours credit
Study of the interrelationship of machines and employees in the workplace. Topics include facilities, equipment, constraints, and personnel management systems. Lecture 3 hours. Prerequisite: junior standing.
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**DEPARTMENT OF MATHEMATICAL SCIENCES**

Chair - Karla Oty, Professor
Professors: Argyros, Jankovic, McArthur, Tabatabai
Assistant Professors: Eby, Herring, Li
Instructors: Brazile, Christensen, Corriette, Meyers, Washington, Young

The Department of Mathematical Sciences offers programs in mathematics, one of the oldest academic disciplines, as well as in statistics. The Department offers programs leading to a Bachelor of Arts degree with a major in Mathematics and a Bachelor of Arts degree with a major in Mathematics Education. Minors are also offered in mathematics and statistics.

Mathematics and statistics are fundamental to a wide variety of fields and careers. Students who major or minor in mathematics have problem solving and logic skills that are highly desired by employers in industry and government. Statistics is instrumental in the study of the behavioral and social sciences, the biological and physical sciences, and business. The Bachelor of Arts degree with a major in Mathematics Education will prepare students for a career in teaching secondary mathematics.

**BACHELOR OF ARTS DEGREE MAJOR IN MATHEMATICS (150)**

I. GENERAL EDUCATION REQUIREMENT ........................................ 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. Minimum of 35 hours
   **Required Courses** .................................................. 29 hours
   MATH 2215, MATH 2235, MATH 2244, MATH 2613, MATH 3013,
   MATH 3213, MATH 3253, MATH 4483

   **Electives** ......................................................... 6 hours
   Electives must be chosen from the following mathematics, statistics
   and computer science courses.

   Mathematics
   MATH 3302, MATH 3333, MATH 4113, MATH 4423, MATH 4433,
   MATH 4471-3, MATH 4491-3

   Statistics
   STAT 3023, STAT 3113, STAT 3123, STAT 3202

   Computer Science
   CS 3343, CS 3443

III. ADDITIONAL REQUIREMENTS ........................................... 4 hours
    A student majoring in mathematics must complete the following:
    CS 1301 and CS 1313.

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**VOCATIONAL COURSES (VOC)**

**1001-3 SPECIAL PROBLEMS, 1-3 hours credit**
An assigned study project which will include advanced training in a particular vocational area. 24 shop hours per credit hour enrolled. Prerequisite: permission of the Chair.

**1012 VOCATIONAL SHOP, 2 hours credit**
The use and care of common hand tools, instruments and measuring devices, shop safety, and career guidance. 48 shop hours.

**1014 AUTO BODY REPAIR, 4 hours credit**
Selected topics such as sheet metal repair, painting, and refinishing, frame straightening, and auto glass accessories. Shop experience using military and/or commercial vehicles. May be repeated with a different topic for a total of 8 credit hours. 96 shop hours per course. Prerequisite: VOC 1012.

**2004 AUTOMOTIVE MAINTENANCE, 4 hours credit**
Selected topics such as gasoline engines, chassis, fuel systems, and tune-up. Shop experience using military and/or commercial vehicles. May be repeated with a different topic for a total of 16 credit hours. 96 shop hours per course. Prerequisite: VOC 1012.

**2014 DIESEL MAINTENANCE, 4 hours credit**
Selected topics such as diesel engines, chassis, fuel systems, power trains, electrical systems, and tune-up. Shop experience using military and/or commercial vehicles. May be repeated with a different topic for a total of 16 credit hours. 96 shop hours per course. Prerequisite: VOC 1012.

**2024 WELDING, 4 hours credit**
Selected topics such as acetylene, arc, M.I.G. and T.I.G. welding. Shop experience using military and/or commercial equipment. May be repeated with a different topic for a total of 16 credit hours. 96 shop hours per course. Prerequisite: VOC 1012.

**2034 AIR CONDITIONING, REFRIGERATION AND HEATING, 4 hours credit**
Selected topics such as refrigeration, heating, and air-conditioning. Shop experience using military and/or commercial equipment. May be repeated with a different topic for a total of 16 credit hours. 96 shop hours per course. Prerequisite: VOC 1012.

* Liberal arts and sciences course.
IV. MINOR .............................................................. 18 hours

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

BACHELOR OF ARTS DEGREE
MAJOR IN MATHEMATICS EDUCATION (155)

I. GENERAL EDUCATION REQUIREMENT ................................. 50 hours
General Education requirements are found on the red striped pages. This degree requires specific courses for general education. Please check with the department for these requirements.

II. MAJOR ......................................................... Minimum of 41 hours

Required Core Courses ................................................. 28 hours
MATH 2235, MATH 2244, MATH 2613, MATH 3013, MATH 3302,
MATH 3333, MATH 4423, MATH 4772, STAT 3013.

Electives ................................................................. 13 hours
Electives must be chosen from the following mathematics and computer science courses.

Mathematics
MATH 3213, MATH 3253, MATH 4113, MATH 4471-3,
MATH 4491-3, MATH 4483

Computer Science
CS 1301, CS 1313, CS 1523, CS 3343

Elective Courses .......................................................... 33 hours
EDUC 1800, EDUC 3003, EDU 3103, EDUC 3612**, EDUC 3673,
EDUC 3733, EDUC 3753**, EDUC 4313*, EDUC 4653*, EDUC 4965**
EDUC 4975**
(*Restricted to those students who have been admitted to Teacher Education. See Page 52 in this catalog or the undergraduate education advisor for admission requirements.)
**(Courses taken during professional semester)

III. ADDITIONAL REQUIREMENTS
Mathematics Education candidates must achieve a grade of C or better in selected general education and education courses in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Mathematics Education candidates must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by passing a Department of English and Foreign Languages proficiency test or by taking a foreign language course.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in Mathematics will be eligible to apply for a standard teaching license.

IV. MATHEMATICS COURSES (MATH)

Students who have credit in mathematics courses numbered 2000 or above may not enroll in courses below 2000 without department approval.

0013 PRE-ALGEBRA, 3 hours credit (Remedial/Developmental Course)
This course provides a solid foundation in whole and signed number operations, fractions, decimals, percent, ratio, and proportion. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Lecture 3 hours.

0103 BEGINNING ALGEBRA, 3 hours credit (Remedial/Developmental Course)
This course is an introduction to algebra. Topics covered include introduction to the real number system, solving and graphing linear equations and inequalities, arithmetic operations using polynomials, factoring, and simplifying rational expressions. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Prerequisite: MATH 0013 or satisfactory placement score. Lecture 3 hours.

0115 BEGINNING AND INTERMEDIATE ALGEBRA, 5 hours credit (Remedial/Developmental Course)
A combined beginning and intermediate algebra course. This course is designed for students who are able to cover the material in both beginning and intermediate algebra in one semester. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Prerequisite: MATH 0013 or satisfactory placement score. Lecture 5 hours.

0121 BASIC MATH SKILLS, 1 hour credit (Remedial/Developmental Course)
This course is a supplemental developmental course providing an individualized plan of study to practice mathematical skills under the direction of the Mathematics Laboratory staff. Students who are enrolled in this course must be concurrently enrolled in MATH 0103, MATH 0121, MATH 0115, or MATH 0213. Does not satisfy any degree requirements for any degree program at Cameron University.

0213 INTERMEDIATE ALGEBRA, 3 hours credit (Remedial/Developmental Course)
This course is designed to help students develop the skills needed for general education courses. Topics include radical and rational exponents, inequalities, quadratics, complex numbers, and an introduction to functions. Does not satisfy any requirements for any degree program at Cameron University. Students who have unsuccessfully attempted this course two or more times are required to co-enroll in MATH 0121. Prerequisite: MATH 0013 or satisfactory placement score. Lecture 5 hours.

0153* COLLEGE ALGEBRA, 3 hours credit
Topics covered are functions and graphs, including polynomial, rational, exponential and logarithmic; conic sections; linear systems; and matrices. College Algebra requires the use of a graphing calculator. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 0213 or MATH 0115 or equivalent.

0163* PLANE TRIGONOMETRY, 3 hours credit
The development, use and relations between circular and trigonometric functions; solutions of triangles; and application to practical problems throughout the course. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 1513 or satisfactory placement score.

1513* COLLEGE ALGEBRA AND TRIGONOMETRY, 5 hours credit
An integrated course in College Algebra and Trigonometry. This course is equivalent to the two courses MATH 1513 and MATH 1613. Does not apply toward a major in or minor in mathematics or a major in mathematics education. Lecture 5 hours. Prerequisite: MATH 0213 or 0213 or equivalent.
1813* SURVEY OF MATHEMATICS, 3 hours credit
A survey course in Mathematics designed to acquaint the student with the breadth and beauty of mathematics. Topics to be selected from set theory, logic, functions and relations, abstract algebraic systems, history of numeration systems, combinatorial analysis and probability, statistics, geometry and topology. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture: 3 hours. Prerequisite: MATH 0213 or MATH 0115 or equivalent.

2215* CALCULUS AND ANALYTIC GEOMETRY I, 5 hours credit
Limits, derivatives with applications, the definite integral with applications. Lecture 5 hours. Prerequisites: MATH 1513 and 1613 or MATH 1715 or equivalent.

2235* CALCULUS AND ANALYTIC GEOMETRY II, 5 hours credit
Techniques of integration, applications of integration, polar coordinates, sequences and series, vectors. Lecture 5 hours. Prerequisite: MATH 2215.

2244* CALCULUS AND ANALYTIC GEOMETRY III, 4 hours credit
Solid analytic geometry, partial differentiation, multiple integrals, functions of several variables, vector calculus. Lecture 4 hours. Prerequisite: MATH 2235.

2353 MATHEMATICS FOR ELEMENTARY TEACHERS I, 3 hours credit
A basic course in mathematics for elementary education majors. An introduction to problem solving, numeration systems, whole number properties, and current technologies and manipulatives that relate to elementary mathematics. Additionally, operations with whole numbers are developed. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: completion of one math general education course.

2363 MATHEMATICS FOR ELEMENTARY TEACHERS II, 3 hours credit
An introduction to the structure of the real number system, functions, and probability and statistics for elementary education majors. Various manipulatives are used as teaching tools. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 2353 or department permission.

2491-3 SELECTED TOPICS IN MATHEMATICS, 1-3 hours credit
A course designed to give non-mathematics majors the opportunity to study topics which are either not covered in the regular mathematics course offerings or not covered in sufficient depth for their needs. Topics considered appropriate for this course are those which require little or no calculus. May be repeated as often as desired with permission of the department chairman. Prerequisite: Permission of the department.

2613* FOUNDATIONS OF MATHEMATICS, 3 hours credit
This course is designed to facilitate the transition from calculus to advanced mathematics. Topics include logic, sets, relations, functions, properties of real numbers, cardinality, combinatorics and probability. Lecture 3 hours. Prerequisite: MATH 2215.

2713* ELEMENTARY CALCULUS, 3 hours credit
An introductory course in calculus for the non-mathematics major covering the following topics: limits, derivatives, and integration of functions of one or more variables. Applications will be related to Business, Economics, and the Social Sciences. Does not apply towards a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: Math 1513 or equivalent.

3013 INTRODUCTORY LINEAR ALGEBRA, 3 hours credit
An introduction to the basic topics of linear algebra to include linear systems, matrices, vectors, and vector spaces, eigenvalues, and linear transformations. Lecture 3 hours. Prerequisite: MATH 2613.

3213* ABSTRACT ALGEBRA, 3 hours credit
The course emphasizes algebraic structures with particular emphasis on groups, rings, and fields. The fundamental theorems of group and ring theory are introduced and the beginning notions of field theory are presented. Prerequisite: MATH 2613.

3253 DIFFERENTIAL EQUATIONS, 3 hours credit
Ordinary differential equations with a brief introduction to solutions by series and Laplace transforms. Lecture 3 hours. Prerequisite: MATH 2235.

3302* HISTORY OF MATHEMATICS, 2 hours credit
The historical development of mathematics. Lecture 2 hours. Prerequisite: MATH 2215.

3333* COLLEGE GEOMETRY, 3 hours credit
A comprehensive course which includes topics from both Euclidean and non-Euclidean geometries. Lecture 3 hours. Prerequisite: MATH 2215.

3373 ALGEBRA FOR ELEMENTARY TEACHERS, 3 hours credit
A course in algebra specifically designed for elementary education majors. Topics include integers, equations, functions, graphing, and applications of algebra. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 2363 or department permission.

3383 GEOMETRY FOR ELEMENTARY TEACHERS, 3 hours credit
A course in geometry specifically designed for elementary education majors. Topics include constructions and geometric proofs as well as the study of geometric objects in two and three dimensions. Does not apply toward major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 2363 or department permission.

4113 INTRODUCTION TO OPERATIONS RESEARCH, 3 hours credit
An introductory treatment of some of the problems and techniques encountered in operations research. Topics include linear programming, network analysis, game theory, Markov chains, and analytical hierarchies. Lecture 3 hours. Prerequisite: MATH 2215 or 2713 or department permission.

4423* NUMBER THEORY, 3 hours credit
Divisibility of integers, congruences, quadratic residues, mathematical induction, distribution of primes, diophantine equations, numerical functions and continued fractions. Lecture 3 hours. Prerequisite: MATH 2613 or department permission.

4433 MATRIX ALGEBRA, 3 hours credit
Elementary operations with matrix algebra, determinants, inverse of a matrix, rank and equivalence, linear dependence, vector spaces and linear transformations, characteristic equations of a matrix, bilinear, quadratic and Hermitian forms. Lecture 3 hours. Prerequisite: MATH 2215 or department permission.

4471-3 SEMINAR IN MATHEMATICS, 1-3 hours credit
A course designed to give non-mathematics majors the opportunity to study topics which are either not covered in the regular mathematics course offerings or not covered in sufficient depth for their needs. Topics considered appropriate for this course are those which require little or no calculus. May be repeated as often as desired with permission of the department chairman. Prerequisite: Permission of the department.

4772 TEACHING OF SECONDARY MATHEMATICS, 2 hours credit
Various aspects of the pedagogy of teaching secondary mathematics courses will be explored. Lecture 2 hours. Prerequisite: juniors or seniors who have been admitted to Teacher Education or department permission.
**STATISTICS COURSES (STAT)**

3003* INTRODUCTION TO STATISTICS, 3 hours credit
Designed to introduce the non-mathematics student to the techniques of experimental statistics including estimation and hypothesis testing. Does not apply toward a major or minor in mathematics or a major in mathematics education. Lecture 3 hours. Prerequisite: MATH 0213 or 0115 or equivalent.

3013* INTRODUCTORY PROBABILITY AND STATISTICS I, 3 hours credit
Descriptive statistics including graphical representation of data, elementary probability and combinatorial methods, binomial and normal distributions, statistical inference including point estimates of mean, variance and proportion, confidence intervals, test of hypotheses. Lecture 3 hours. Prerequisite: MATH 1513 or MATH 1813 or satisfactory placement score.

3023 INTRODUCTORY PROBABILITY AND STATISTICS II, 3 hours credit
A continuation of STAT 3013. Emphasis on various experimental designs - chi square tests, analysis of variance, regression and correlation, sampling, and introduction to nonparametric statistics. Lecture 3 hours. Prerequisite: STAT 3013 or departmental permission. The department recommends concurrent enrollment in STAT 3202.

3113 MATHEMATICAL STATISTICS I, 3 hours credit
Introduction to combinatorial methods, probability random variables and expected value, discrete distributions, continuous probability functions, and moment generating functions. Lecture 3 hours. Prerequisite: MATH 2235.

3123 MATHEMATICAL STATISTICS II, 3 hours credit
A continuation of STAT 3113. Sampling, interval estimation, tests of hypotheses, and regression and correlation. Lecture 3 hours. Prerequisite: STAT 3113.

3202 STATISTICAL APPLICATIONS OF THE COMPUTER, 2 hours credit
Techniques for using the computer as a tool in the analysis of statistical problems. Emphasis on data handling in statistical applications. No prior programming knowledge necessary for enrolling in this course. Lecture 1 hour, laboratory 2 hours. Prerequisite: STAT 3023 or concurrent enrollment or department permission.

* Liberal arts and sciences course.

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**DEPARTMENT OF MILITARY SCIENCE**

Chair - MAJ Rod L. Boles, Professor
Assistant Professors: LTC Williams and CPT Peregoy
Senior Military Instructor: MSG Franzen
Military Instructors: MSG (RET) Livsey, MSG (RET) Shepherd and SFC Flatebo
Human Resource Assistant: Gorman, Sandersfield
Supply Technician: Morgan

Reserve Officers’ Training Corps (ROTC) is a four year program designed to complement the student’s major and minor fields of study by developing the skills required in a leader. There is no military obligation for non-ROTC scholarship students enrolled in freshman and sophomore level classes. Contracted cadets receive a subsistence allowance each month during the academic year. Students completing the Advanced Course apply for a commission as a second lieutenant in the Active Army, Army Reserve or Army National Guard. Students may apply for 4 year Army scholarships during their senior year in high school, or 3 and 2 year scholarships after they enroll in the University. Qualified students may apply for Airborne, Air Assault, and other military training conducted during the summer.

**BASIC COURSE**

**MS I (Freshman Year)**

MSL 1011 Foundations of Officership Lab ........................................ 1 hour
MSL 1012 Foundations of Officership ........................................... 2 hours
MSL 1021 Basic Leadership Lab ................................................... 1 hour
MSL 1022 Basic Leadership ......................................................... 2 hours

**MS II (Sophomore Year)**

MSL 2021 Individual Leadership Lab ........................................... 1 hour
MSL 2022 Individual Leadership Studies ....................................... 2 hours
MSL 2021 Leadership and Teamwork Lab ..................................... 1 hour
MSL 2022 Leadership and Teamwork ........................................... 2 hours
MSL 2002-8 Leader’s Training Course (Summer Semester Only) ....... 2-8 hours

Students may receive Advanced Standing or placement credit for the Basic Course for prior active or reserve component duty in any service. Students may also receive partial placement credit if they completed 2 or more years of Junior ROTC (JROTC) in high school. The Professor of Military Science determines the credits given for JROTC experience.

Students with sophomore academic status may take MS I and MS II courses simultaneously. Students who have completed their sophomore year and seniors applying to graduate school may attend the Leader’s Training Course (MSL 2002-8) if they are interested in qualifying for the Advanced Course.
ADVANCED COURSE

MS III (Junior Year)

- MSL 3011 Leadership and Problem Solving Lab .................................................. 1 hour
- MSL 3013 Leadership and Problem Solving ......................................................... 3 hours
- MSL 3021 Leadership and Ethics Lab ................................................................. 1 hour
- MSL 3023 Leadership and Ethics ................................................................. 3 hours

MS IV (Senior Year)

- MSL 4004 Leader Development and Assessment Course (LDAC) 
  (Summer Semester Only) ................................................................. 4 hours
- MSL 4011 Leadership Challenges/Goal Setting Lab ........................................ 1 hour
- MSL 4013 Leadership Challenges and Goal Setting ....................................... 3 hours
- MSL 4021 Officier Lab ........................................................................ 1 hour
- MSL 4023 Officership ........................................................................ 3 hours

Completion of the Basic Course, Leader’s Training Course or placement credit for the Basic Course and approval from the Professor of Military Science are prerequisites for the Advanced Course. Candidates for a commission must also complete classes in U.S. Military History, Communication Skills, and Computer Literacy in addition to the University's General Education requirement.

Scholarships

Scholarships are available for two, three and four year periods. Refer to the Financial Assistance section of the catalog or contact the Military Science Department for more information.

MILITARY SCIENCE AND LEADERSHIP COURSES (MSL)

Basic Course

The ROTC Basic Course provides an introduction to the purpose and history of the United States Army, training in fundamental military skills, principles of instructional techniques, classroom and practical training in leadership. Enrollment in Basic Course classes is open to all full-time students, male and female, regardless of intentions to continue in ROTC or to pursue a commission. There is no military obligation incurred for Basic Course attendance by non-ROTC scholarship students. Full academic credit is given for all ROTC basic courses. Each enrollment and satisfactory completion in MSL 1012, 1022, 2012, and 2022 will satisfy 1 hour of Physical Education Activity for General Education requirements. To qualify for enrollment in the Advanced Course, a student must complete 8 hours of Basic Courses credits, through any of the following combinations: Completion of all 1000 and 2000 level courses, placement credit received from the Professor of Military Science for prior military service or JROTC leadership experience, or completion of MSL 2002-8, Leader’s Training Course. Students receive a subsistence allowance while attending the Leader’s Training course (MSL 2002-8).

1011 FOUNDATIONS OF OFFICERSHIP LAB, 1 hour credit

Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process and obtaining team buy-in through immediate feedback. Lecture 2 hours, laboratory 3 hours*. *Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets.

1012 FOUNDATION OF OFFICERSHIP, 2 hours credit

Introduces students to issues and competencies that are central to a commissioned officer’s responsibilities. Establish framework for understanding officership, leadership and Army values followed and “life skills” such as physical fitness and time management. Lecture 2 hours, laboratory 3 hours*. *Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets.

1021 BASIC LEADERSHIP LAB, 1 hour credit

Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets. Prerequisite: Basic Leadership MSL 1022 or concurrent enrollment. MSL 1022 must be successfully completed before credit is given in this course.

1022 BASIC LEADERSHIP, 2 hours credit

Studies leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting techniques, techniques for improving listening and speaking skills and an introduction to counseling. Lecture 2 hours, laboratory 3 hours*. *Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets.

2011 INDIVIDUAL LEADERSHIP LAB, 1 hour credit

Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets. Prerequisite: Individual Leadership Studies, MSL 2012 or concurrent enrollment. MSL 2012 must be successfully completed before credit is given in this course.

2012 INDIVIDUAL LEADERSHIP STUDIES, 2 hours credit

Students identify successful leadership characteristics through observation of others and self through experimental learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings. Lecture 2 hours, laboratory 3 hours*. *Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets.

2021 LEADERSHIP AND TEAMWORK LAB, 1 hour credit

Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets. Prerequisite: Leadership and Teamwork, MSL 2022 or concurrent enrollment. MSL 2022 must be successfully completed before credit is given in this course.

2022 LEADERSHIP AND TEAMWORK, 2 hours credit

Studies leadership and teamwork. Lecture 2 hours, laboratory 3 hours*. *Participation in Leadership Lab and Physical Fitness training is optional for “Non-Contracted” cadets (but highly encouraged); Mandatory for “Contracted” cadets.
2032 INDEPENDENT STUDY IN MILITARY SCIENCE, 2 hours credit
This course is available only to students with scheduling conflicts which prevent their completion of another lower division Military Science course. Content will duplicate the content of the course it replaces. Lecture 2 hours. Laboratory required if student is a contracted cadet.

2002-8 LEADER’S TRAINING COURSE (BASIC CAMP), 2-8 hours credit
A four week opportunity to develop new skills, to grow personally and to qualify for enrollment in Army ROTC advanced courses. The Leader’s Training Course is a world-class leadership development program that will instill self-confidence and provide leadership skills for life. Prerequisite: Permission of the Professor of Military Science.

Advanced Course
The Advanced Course, consists of MSL 3013, 3023, 4004, 4013 and 4023. Cadets normally attend Leader Development and Assessment Course (LDAC) (MSL 4004) during the summer between their junior and senior years. It is open only to students who have completed the Basic Course, Leader’s Training Course or for whom the Professor of Military Science has approved placement credit based on prior military service. The Advanced Course is designed to qualify a student for a commission as an officer in the United States Army. Students must qualify physically, mentally and morally prior to enrollment. They must complete all courses in sequence unless otherwise approved by the Professor of Military Science. Students receive full academic credit, to include 4 credits for the Leader Development and Assessment Course, and may declare a minor in Military Science (as approved by the Professor of Military Science). Students receive a stipend during the school year and veterans may draw the ROTC stipend and VA educational benefits concurrently. The Advanced Course emphasizes practical exercises in leadership.

3011 LEADERSHIP AND PROBLEM SOLVING LAB, 1 hour credit
Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Attendance is mandatory for Juniors and Seniors. Prerequisite: Leadership and Problem Solving MSL 3013 or concurrent enrollment. MSL 3013 must be successfully completed before credit is given in this course.

3013 LEADERSHIP AND PROBLEM SOLVING, 3 hours credit
Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/small unit tactical training while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours, Leadership Laboratory 3 hours. Prerequisite: Completion of Military Science Basic Courses or placement credit for the Basic Courses and permission of the Professor of Military Science.

3021 LEADERSHIP AND ETHICS LAB, 1 hour credit
Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Mandatory attendance for Juniors and Seniors. Prerequisite: Leadership and Ethics MSL 3023 or concurrent enrollment. MSL 3023 must be successfully completed before credit is given in this course.

3023 LEADERSHIP AND ETHICS, 3 hours credit
Examines the role communications, values and ethics play in effective leadership. Topics include ethical decision-making, consideration of others, spirituality in the military, and survey Army leadership doctrine. Emphasis on improving oral and written communication abilities. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours, Leadership Laboratory 3 hours. Prerequisite: Completion of Military Science Basic Courses or placement credit for the Basic Courses and permission of the Professor of Military Science.

4004 LEADER DEVELOPMENT AND ASSESSMENT COURSE (LDAC), 4 hours credit
A four-week camp conducted at an Army post. Open only to (and required of) students who have completed MSL 3013 and 3023. The Leader Development and Assessment Course (LDAC) environment is highly structured and demanding; stressing leadership at small unit levels under varying, challenging conditions. Individual leadership and basic skills performance are evaluated throughout camp. Qualified cadets may attend Airborne, Air Assault, Northern Warfare and Cadet Troop Leader Training between the end of LDAC and the beginning of the fall semester. Prerequisites: MSL 3013 and 3023.

4011 LEADERSHIP CHALLENGES/GOAL SETTING LAB, 1 hour credit
Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Mandatory attendance for Juniors and Seniors. Prerequisite: Leadership Challenges/Goal Setting MSL 4013 or concurrent enrollment. MSL 4013 must be successfully completed before credit is given in this course.

4013 LEADERSHIP CHALLENGES AND GOAL SETTING, 3 hours credit
Develops student proficiency in planning and executing complex operations, functioning as a member of a staff and mentoring subordinates. Students explore training management, methods of effective staff collaboration and developmental counseling techniques. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours, Leadership Laboratory 3 hours. Prerequisite: Permission of the Professor of Military Science.

4021 OFFICERSHIP LAB, 1 hour credit
Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Attendance is mandatory for Juniors and Seniors. Prerequisite: Officership MSL 4023 or concurrent enrollment. MSL 4023 must be successfully completed before credit is given in this course.

4023 OFFICERSHIP, 3 hours credit
Study includes case study analysis of military law and practical exercises on establishing an ethical command climate. Students must complete a semester-long Senior Leadership Project that requires them to plan, organize, collaborate, analyze and demonstrate their leadership skills. Participation in Physical Fitness training, Leadership Lab, and one weekend Field Training Exercise is required. Lecture 3 hours, Leadership Laboratory 3 hours. Prerequisite: Permission of the Professor of Military Science.

Leadership Laboratory
Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and land navigation, team building exercises, physical conditioning and small unit tactics. The availability of an outdoor training area on campus, and the proximity of Fort Sill, allow students to get out of the classroom and apply the skills they have learned in fast paced exercises. Attendance is optional for non-ROTC scholarship/non-contracted freshmen and sophomores, but they are always welcome and encouraged to attend. Attendance is mandatory for juniors and seniors.
DEPARTMENT OF
MULTIMEDIA DESIGN

Chair - Don Aguilar, Associate Professor
Associate Professors: Johari, Wright-Smith, Jenkins
Assistant Professor: Hardin

The Department of Multimedia Design offers programs leading to the Associate in Applied Science and the Bachelor of Science Degree in Multimedia Design. The two programs are offered in a two-plus-two arrangement. Students may either earn the AAS degree first and proceed to the BS degree or earn the BS degree directly.

ASSOCIATE IN APPLIED SCIENCE (510)
MAJOR IN MULTIMEDIA DESIGN

The purpose of this program is to prepare individuals with technical multimedia development skills to function as team members in the systematic design and development of technology based, interactive, user-friendly instructional applications.

I. GENERAL EDUCATION REQUIREMENTS ........................................... 18 hours
ENGL 1113, ENGL 1213, POL SC 1113, HIST 1483 or HIST 1493,
COMM 1113, MATH 1813 or MATH 1513

II. MAJOR ................................................................. 43 hours
Technical-Occupational Specialty ............................................. 30 hours
MM 1013, MM 1133, MM 1143, MM 1154, MM 2024, MM 2034,
MM 2123, MM 2132, MM 2804

Technical-Occupational Support Courses .................................. 7 hours
CIS 1013 and RTV 2104

Technical-Occupational Related Course Work ............................ 6 hours
(To be selected by student with approval of academic advisor)

TOTAL ................................................................. 61 hours

BACHELOR OF SCIENCE
MAJOR IN MULTIMEDIA DESIGN (420)

The purpose of this program is to prepare individuals with technical multimedia development and management skills. Graduates will be prepared to maximize the opportunities presented by the media expansion through the development of technical multimedia skills and through management training.

I. GENERAL EDUCATION REQUIREMENT ........................................... 50 hours
General Education requirements are found on the red striped pages.

II. MAJOR-MINOR ................................................................. 57 hours

Specialty Courses From A.A.S. .................................................. 30 hours
MM 1013, MM 1133, MM 1143, MM 1154, MM 2024, MM 2034,
MM 2123, MM 2132, MM 2804

Technical-Occupational Support Courses from AAS ..................... 7 hours
CIS 1013, RTV 2104

Advanced Specialty Courses ..................................................... 20 hours
MM 3013, MM 3113, MM 4003, MM 4023, MM 4414, MM 4804

III. SUGGESTED ELECTIVES ..................................................... 18 hours
MGMT 4443 and 15 hours selected from the following:
MGMT 2213, TECH 3013, CS 1313, MGMT 3013, COMM 3383, MKTG 3413

IV. RELATED (MM 3203) ........................................................... 3 hours

V. ELECTIVES (Approved by Department Chair) ........................... 5 hours

TOTAL ................................................................. 128 hours

MULTIMEDIA COURSES (MM)

1013 FUNDAMENTALS OF MULTIMEDIA DESIGN, 3 hours credit
An introduction to the study of multimedia design, including principles of graphic design; introduction to authoring; on-screen layout; and introduction to authoring tools. With a basic understanding of Instructional Systems Design, students will learn to create desktop and on-screen multimedia applications. This class will also include a brief introduction to authoring software. Prerequisite or concurrent enrollment in CIS 1013. Lecture 2 hours, laboratory 2 hours.

1133 MULTIMEDIA PRODUCTION TECHNIQUES, 3 hours credit
This course familiarizes students with basic techniques, using hardware and software tools to create various media for multimedia productions. Students will learn basic techniques such as scanning and enhancing photographs, creating simple animations and incorporating graphics into presentations with an understanding of display color. Prerequisite: MM 1013 and MM 1143. Lecture 2 hours, laboratory 2 hours.

1143 INSTRUCTIONAL DESIGN, 3 hours credit
Introduction to the systematic design of instruction that includes learner, task and content analysis, writing performance objectives, developing instructional strategies, materials and assessment instruments, and evaluating and revising instructional materials. This course will employ an automated tool to accomplish objectives. Lecture 2 hours, laboratory 2 hours.

1154 INTRODUCTION TO MULTIMEDIA AUTHORING, 4 hours credit
Introduction to program logic and problem solving techniques within the context of an authoring tool. This course makes extensive use of structure charts, flow charts and story boarding to illustrate the logic necessary to create instructional materials using authoring software. Prerequisite: MM 1133 and MM 1143. Lecture 2 hours, laboratory 4 hours.

2024 CORPORATE MULTIMEDIA PRODUCTION I, 4 hours credit
Planning and development of modern interactive educational applications in a corporate environment using modern learning theory. Students will plan projects using industry best practices in a client-centered, corporate context. They will also produce educational programs conforming to e-learning principles based on cognitive learning theory. This course will incorporate a second authoring tool. Prerequisites: MM 1154; concurrent enrollment: RTV 2104. Lecture 2 hours, laboratory 4 hours.
**2034 WEB COMMUNICATIONS AND DESIGN, 4 hours credit**
This course introduces students to purpose-driven web browsing and web page creation. Students will incorporate multimedia components into created pages. Prerequisite: CIS 1013. Lecture 2 hours, lab 4 hours.

**2123 CORPORATE MULTIMEDIA PRODUCTION II, 3 hours credit**
An advanced course emphasizing practice in the use of more advanced authoring and delivery techniques while studying current issues in corporate and government instructional media production. Prerequisite: MM 2024. Lecture 2 hours, lab 2 hours.

**2132 LEGAL AND ETHICAL ISSUES, 2 hours credit**
A survey of current ethical and legal issues, such as copyright, that impact the development and use of multimedia instructional material. Lecture 2 hours.

**2191-3 SPECIAL PROBLEMS IN MULTIMEDIA, 1-3 hours credit**
Individual and group projects in multimedia. May be repeated with permission of the department chairman. Prerequisite: Permission of the department chair and faculty member supervising the project. Can be taken for a maximum of 6 hours. Lab 2-6 hours.

**2804 CAPSTONE PROJECT, 4 hours credit**
Application of appropriate skills necessary to develop user friendly and instructionally sound interactive, technology based educational applications. Students will be given guidance in setting project goals. This course will provide information for program outcomes assessment and establish a basis for continued follow-up and evaluation after program completion. Prerequisite or concurrent enrollment MM 2123. Lecture 1 hour, lab 6 hours.

**3013 ADVANCED COMPUTER GRAPHICS, 3 hours credit**
A study of artistic elements and software techniques used to create advanced 2D/3D computer graphics for multimedia products. Prerequisites: MM 1013. Lecture 2 hours, laboratory 2 hours.

**3023 WEB PUBLISHING AND GRAPHICS, 3 hours credit**
This course helps students develop the creative and critical thinking skills required in a web/animation design and development environment. Students learn to plan for and implement interactivity in their web and animation designs. They are required to incorporate a mixture of audio, video, graphics, and animation dependent on website objectives (e.g., marketing, instructing, or entertainment). Techniques for automating the design process will be covered. State-of-the-art web animation and web-development tools are introduced and used as the catalyst for learning. Lecture 2 hours, laboratory 2 hours. Prerequisites: instructor permission.

**3113 DISTANCE LEARNING DEVELOPMENT, 3 hours credit**
Development of multimedia instructional materials for distance learning using current technology. Lecture 2 hours, lab 2 hours. Prerequisites: MM 1143, MM 2034 or department permission.

**3203 ADVANCED INSTRUCTIONAL DESIGN, 3 hours credit**
An advanced course in instructional systems design (ISD) exploring the relationships between the ADDIE process and various ISD models. Also explored are learning theories underpinning ISD and their application in professional-level designs. Prerequisite: MM 1143. Lecture 2 hours, laboratory 2 hours.

**4003 ADVANCED AUTHORING, 3 hours credit**
Advanced authoring using scripting languages. Prerequisite: MM 1154 and MM 3013 or concurrent enrollment. Lecture 2 hours, laboratory 2 hours.

**4023 ADVANCED WEB COMMUNICATIONS, 3 hours credit**
Advanced web authoring using programming languages. Prerequisite: MM 2034. Lecture 2 hours, laboratory 2 hours.

**4191-3 ADVANCED PROBLEMS IN MULTIMEDIA, 1-3 hours credit**
Individual and group projects in multimedia. May be repeated with permission of the department chair. Prerequisite: permission of the department chair and faculty member supervising the project. May be taken for a maximum of 6 hours. Laboratory 2-6 hours.

**4414 SIMULATION, 4 hours credit**
Demonstration of effective methods for visualizing objects and data through designing and creating animations for use in video, multimedia and virtual environments. Prerequisite: MM 3013. Lecture 2 hours, laboratory 4 hours.

**4804 CAPSTONE, 4 hours credit**
Demonstration of the appropriate skills necessary to direct and manage an instructional materials project. Students will serve as program managers for MM 2104, completing a needs analysis, developing objectives and writing specifications given a training need for an internship. This course will provide information for program outcomes assessment and establish a basis for continued follow-up and evaluation after program completion. Prerequisite: MM 4003, 4414, and 4023 or concurrent enrollment. Lecture 1 hour, lab 6 hours.
The Department of Physical Sciences offers programs leading to the Bachelor of Science degree with majors in Chemistry, Chemistry Education, Natural Science and Physics.

BACHELOR OF SCIENCE DEGREE
MAJOR IN CHEMISTRY (340)

Chemistry is central to the study of all modern sciences and is therefore prerequisite to and required by many separate disciplines, even for their introductory courses. Since chemistry as a discipline is designed and structured as a vertical hierarchy (each course follows another and the preceding course is a required prerequisite) it is important to start the study of chemistry early in your college career. A basic year to two years of chemistry are required for entry into most allied health programs such as pharmacy, medical technology, physical and occupational therapy, radiological technology, biotechnology, and environmental sciences. A Bachelor’s degree in chemistry may be used to enter industry, teach, fulfill requirements for pre-professional programs such as medicine, dentistry, veterinary medicine, optometry, chemical engineering, and to enter graduate school for the further study of forensic science, chemistry, biochemistry, molecular biology, environmental science and other advanced programs.

At Cameron University there are two basic options for a chemistry program. Each option dictates to some extent the recommended minor and student decision of which option to choose should be based upon their long term occupational goal. There are several possible goals that are not addressed here and that should be discussed further with an advisor. The traditional chemistry program, which uses the Physical Chemistry option (described in the degree outline), will fit most economically (that is fastest, with minimal financial investment) into a Bachelor’s degree program with a minor in Mathematics. This is the recommended course of study for those wishing to prepare for industry, engineering, and graduate study. The Biochemistry option is a nontraditional approach and will fit most economically into a Bachelor’s degree program with a minor in Biology. This is the recommended course of study for those wishing to prepare for careers in the health industries (Medicine, Osteopathy, Optometry, Dentistry, Veterinary Medicine) because it overlaps and fulfills almost all pre-professional admission requirements as part of the degree plan. Either set of optional courses may be taken in part or in whole as electives in the other program. For graduate study in most areas the Physical Chemistry option is probably the better program although both programs have been received well by graduate institutions. Please note that both degree programs require Physics I, Physics II, and Calculus I in addition to the minimum chemistry requirements.

I. GENERAL EDUCATION REQUIREMENT ............................... 50 hours
   General Education requirements are found on the red striped pages.

II. MAJOR ....................................................... Minimum of 40 hours
   Required Courses .................................................. 27-29 hours
   CHEM 1361/1364; 1471/1474; CHEM 3113; CHEM 3232;
   CHEM 3314; CHEM 3324; PSCI 4442; Analytical elective from
   CHEM 2222 or CHEM 3334 or CHEM 3343 or CHEM 4025.

Electives .......................... 11-13 hours
Majors must complete one of the following sequences of courses as a part of these electives:
   CHEM 4351, CHEM 4353, CHEM 4361, and CHEM 4363 OR
   CHEM 4401, CHEM 4403, CHEM 4411, and CHEM 4413.

In addition, sufficient electives to complete the 40-hour chemistry degree requirement must be taken. CHEM 1004, CHEM 3544, and CHEM 4303 may not be used as electives. CHEM 3345 may not be used in addition to CHEM 3314/3324. No more than 3 hours of CHEM 4491-4 may be counted toward the 40 hours required for the Chemistry degree.

III. ADDITIONAL REQUIREMENTS ................................. 15 hours
   All chemistry majors must complete the following three courses, PHYS 1115 (or PHYS 2015); PHYS 1215 (or PHYS 2025) and MATH 2215. Depending upon high school background some students may also need MATH 0013, MATH 0103, MATH 0213 and/or MATH 0115, MATH 1513, MATH 1613 and/or MATH 1715 as prerequisites. Some of these courses may be utilized to satisfy General Education requirements.

IV. MINOR .............................................................. 18 hours
   It is strongly recommended that the student select a minor from the fields of Physics, Biology or Mathematics.

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

BACHELOR OF SCIENCE DEGREE
MAJOR IN CHEMISTRY EDUCATION (345)

I. GENERAL EDUCATION REQUIREMENT ............................... 52 hours
   General Education requirements are found on the red striped pages. This degree requires specific courses for general education. Please check with the department for these requirements.

II. MAJOR ....................................................... 72 hours
   Required Core Courses ............................................... 32 hours
   CHEM 1364, CHEM 1361, CHEM 1474, CHEM 1471, CHEM 3113,
   CHEM 3232, CHEM 2441, CHEM 3314, CHEM 3324, CHEM 4403,
   CHEM 4413, CHEM 4472

   Additional Requirements ............................................. 7 hours
   PHYS 1215, PSCI 4442

   Required Education Courses ....................................... 33 hours
   EDUC 1800, EDUC 3003, SPED 3103, EDUC 3612**, EDUC 3673,
   EDUC 3733, EDUC 3753*, EDUC 4313*, EDUC 4563*, EDUC 4965**
   EDUC 4975**
   *Restricted to those students who have been admitted to Teacher Education. See page 52 of this catalog or the undergraduate education advisor for admission requirements.
   **Courses taken during professional semester.
III. ADDITIONAL REQUIREMENTS
Chemistry Education candidates must achieve a grade of C or better in all major courses (required core courses and required education courses) in order to receive credit toward a degree. If a grade of D, F, or U is achieved, the course must be repeated.

Chemistry Education candidates must demonstrate foreign language proficiency (listening and speaking) at the novice-high level as defined by the American Council on the Teaching of Foreign Languages by passing a Department of English and Foreign Languages proficiency test or by taking a foreign language course.

Teacher Licensure/Certification
The student who completes the requirements for this degree and passes the state tests for certification in Chemistry will be eligible to apply for a standard teaching license.

BACHELOR OF SCIENCE DEGREE
MAJOR IN NATURAL SCIENCE (380)

The Natural Science degree program may be used to satisfy most pre-admission requirements for those wishing to prepare for careers in the health industries (Medicine, Osteopathy, Optometry, Dentistry, Veterinary Medicine).

Many students majoring in the sciences intend to gain admission to a health related professional school. Students must recognize that admission to such programs is very competitive and also involves a comprehensive personal evaluation of all applicants. Limited class size as well as tough admission standards rule out many applicants. Thus, students with these career goals should plan early in their undergraduate program for a "significant other" career option.

I. GENERAL EDUCATION REQUIREMENT .................................................. 50 hours
General Education requirements are found on the red striped pages.

II. MAJOR-MINOR ................................................................. 54 hours

Required Courses ................................................................. 42-45 hours
BIOL 1364 and BIOL 1474 or BIOL 1114 and BIOL 1124,
Biology electives (4 hours) selected from 2000 or above level courses, CHEM 1364/1361, and CHEM 1474/1471,
CHEM 3314 and 3324 sequence or CHEM 3345,
PSCI 4424, PHYS 1115 or PHYS 2015, PHYS 1215 or PHYS 2025, PHYS 3003, PHYS 3043, CHEM 1474/1471, CHEM 3314 and 3324 sequence or CHEM 3345,
PSCI 4424, PHYS 1115 or PHYS 2015, PHYS 1215 or PHYS 2025, PHYS 3003, Electives must be selected such that a minimum of 24 semester hours will be earned in one of the above areas and a total of 52 semester hours are earned in Biology, Chemistry, and Physics. Depending upon high school background some students may also need MATH 0013, MATH 0103, MATH 0213 and/or MATH 0115, MATH 1513, MATH 1613 and/or MATH 1715 as prerequisites. Some of these courses may be utilized to satisfy General Education requirements.

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

BACHELOR OF SCIENCE DEGREE
MAJOR IN PHYSICS (385)

Physics is one of the basic sciences required by many disciplines. The Physics program at Cameron University emphasizes the multi-disciplinary approach and meets the needs of most pre-engineering programs. Graduates of the program generally enter industry (aerospace and defense industries are most common) or go on to graduate studies in physics, mathematics, computer science or other related areas. The Physics program requires that a minor in Mathematics be completed as fulfillment of the prerequisite courses for the upper division physics courses. Flexibility in the program is obtained by allowing the student to choose courses for study from the areas of chemistry, technology, and mathematics to fulfill degree requirements.

I. GENERAL EDUCATION REQUIREMENT ............................................... 50 hours
General Education requirements are found on the red striped pages.

II. MAJOR ................................................................. 40 hours

Required Courses ................................................................. 28 hours
PHYS 1115 or PHYS 2015, PHYS 1215 or PHYS 2025, PHYS 3003, PHYS 3011, PHYS 3043, PHYS 3303, PHYS 3403, PHYS 4113, PSCI 4442

Course Options ................................................................. 4-5 hours
Option A Electronics (5 hours)
PHYS 3031 and PHYS 3024

Option B Optics (4 hours)
PHYS 4401 and PHYS 4403

Other Elective Courses to Total 40 hours
CHEM 4353, CHEM 4363, PHYS 3033, PHYS 4452, PHYS 4481-3, PHYS 4491-3

III. ADDITIONAL REQUIREMENTS .................................................. 20 hours
All physics majors must complete the following courses, CIS 2013, CHEM 1474/1471, MATH 2235, MATH 2244, and MATH 3253. Depending upon high school background some students may also need MATH 0013, MATH 0103, MATH 0213 and/or MATH 0115, MATH 1513, MATH 1613 and/or MATH 1715 as prerequisites. Some of these courses may be used to satisfy General Education requirements.

IV. MINOR .................................................. 18 hours
(It is strongly recommended that the student select a minor from the fields of Mathematics or Chemistry.)

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

COURSES
The course curricula to complete a degree in the Department of Physical Sciences designed to be studied in a sequential manner. The prerequisites are advisory and reflect this sequence. These courses are taught using knowledge and skills that the student is expected to retain from previous studies. Taking Physical Sciences courses in an improper sequence, without the recommended prerequisites, and/or with an extended period of time between these courses will require significant additional effort by the student and increase the difficulty of the program.
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ASTRONOMY COURSE (ASTR)

1104* CONTEMPORARY ASTRONOMY, 4 hours credit
A one-semester survey course in astronomy. Topics are developed around observational astronomy, how astronomers understand the universe using models, astronomical and physical concepts which provide a fundamental understanding. The course surveys the solar system, our galaxy and near stars, and stellar characteristics. Lecture 4 hours. Prerequisite: At least one year of high school algebra.

CHEMISTRY COURSES (CHEM)

1004* DESCRIPTIVE CHEMISTRY, 4 hours credit
A one-semester introductory course in chemistry. Principal concepts and theories of chemistry are examined from the layman's point of view. This course is highly recommended for those planning to take CHEM 1364/1361 who have not had previous chemistry. Credit earned in this course cannot be counted towards a science major or minor. This course does not fulfill chemistry requirements for pre-professional programs. Lecture 4 hours.

1015* GENERAL CHEMISTRY I, 5 hours credit
A beginning course in the fundamental concepts and theories of chemistry and the application of these principles to selected elements and compounds. Students who have had high school chemistry and a composite score of 18 on the ACT test should take CHEM 1364 (Exception: A student with an ACT MATH score of 26 or above who has not had high school chemistry should take CHEM 1364, 3 Lecture 4 hours, laboratory 2 hours. Prerequisite: Two years of high school algebra or MATH 1513 or current enrollment.

1225* GENERAL CHEMISTRY II, 5 hours credit
A continuation of CHEM 1015. Lecture 4 hours, laboratory 2 hours. Prerequisite: CHEM 1015.

1361* GENERAL CHEMISTRY LABORATORY I, 1 hour credit
Selected laboratory experiences to test application of chemical theory. Laboratory 2 hours. Prerequisite: CHEM 1364 or concurrent enrollment. CHEM 1364 must be successfully completed before credit is given in this course.

1364* GENERAL CHEMISTRY I, 4 hours credit
Principles of general chemistry, with emphasis on theory and its application to structure and reactions. Lecture 4 hours. Prerequisite: High school chemistry or an ACT math score of 24 or above or CHEM 1004.

1471* GENERAL CHEMISTRY LABORATORY II, 1 hour credit
Selected laboratory experiments to test applications of kinetics, thermodynamics, equilibrium, and quantitative analysis. Laboratory 2 hours. Prerequisite: CHEM 1361 and CHEM 1474 or concurrent enrollment.

1474* GENERAL CHEMISTRY II, 4 hours credit
A continuation of CHEM 1364. Lecture 4 hours. Prerequisite: CHEM 1364.

2222* QUALITATIVE ANALYSIS, 2 hours credit
Analysis for common cations and anions by semi-micro laboratory techniques. Lecture 1 hour, laboratory 4 hours. Prerequisite: CHEM 1474 and CHEM 1471 or concurrent enrollment.

2441 WORKING SAFELY WITH CHEMICALS, 1 hour credit
Seminars, discussion, and real-world activities will focus on regulations and protocols governing laboratory safety and working safely with chemicals. Students will be assessed on compliance regulations, identification of exposures, and safeguarding exposures. Each student will also be asked to evaluate safety policies, emergency preparedness, and hazard recognition. The objective is to prepare students for a safe laboratory experience and be more responsible and knowledgeable employees after graduation. Does not count toward Physical Science General Education requirement.

3113* FUNDAMENTALS OF ANALYTICAL CHEMISTRY, 3 hours credit
An introductory course in analytical chemistry emphasizing volumetric and electrochemical methods. Techniques for the analysis of samples based on instrumental methods are also introduced. Lecture 3 hours. Prerequisites: CHEM 1225 or CHEM 1474 or equivalents.

3232* QUANTITATIVE ANALYSIS LABORATORY, 2 hours credit
Laboratory techniques of quantitative analysis including volumetric and spectroscopic methods. Laboratory 6 hours. Prerequisite: CHEM 3113 or concurrent enrollment. CHEM 3113 must be successfully completed before credit is received in this course.

3314* ORGANIC CHEMISTRY I, 4 hours credit
Nomenclature, structure, reactions, stereochemistry, and mechanisms of both aliphatic and aromatic compounds. The first semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 1364 or concurrent enrollment. CHEM 1364 must be successfully completed before credit is received in this course.

3324* ORGANIC CHEMISTRY II, 4 hours credit
A continuation of CHEM 3314. The second semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 3314.

3343* ORGANIC ANALYSIS, 3 hours credit
Characterization, derivatization, and identification of unknowns consisting of one or more organic compounds. Instrumental methods of analysis as applied to the identification of organic compounds, including practical laboratory work with IR, NMR, GLC, and TLC. Lecture 1 hour, laboratory 6 hours. Prerequisite: CHEM 3324 or concurrent enrollment.

3345* ORGANIC CHEMISTRY, 5 hours credit
A one-semester introduction to the fundamentals of organic chemistry and methods of preparation, reactions, and uses of cyclic, acyclic, aromatic, and heterocyclic compounds. Lecture 4 hours, laboratory 3 hours. Prerequisites: CHEM 1225 or CHEM 1474 and 1471 or equivalent.

3544* BASIC BIOCHEMISTRY WITH PHYSICAL AND ANALYTICAL PRINCIPLES, 4 hours credit
A terminal course which completes a basic background in chemistry by emphasizing the organic, analytical and physical chemistry of compounds of interest in biology, agriculture and home economics. Basic analytical theory and fundamental thermodynamics and kinetics as applied to organic and biological molecules will be studied. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 3345 or equivalent. May not be substituted for any chemistry major requirements.

4025* INSTRUMENTAL METHODS OF ANALYSIS, 5 hours credit
Theoretical and laboratory study of modern analytical techniques, both qualitative and quantitative, with emphasis on instrument types, their components and methodology. Lecture 3 hours, laboratory 6 hours. Prerequisites: CHEM 3113, CHEM 3232 and CHEM 4353.
4303* DRUGS AND THE HUMAN BODY, 3 hours credit
A course for non-science majors designed to provide the information to establish a foundation in the knowledge of drugs widely used or abused. It provides information about the types of drugs encountered, how drugs act in the body, and how they impact on society. The course is especially recommended for education majors, both elementary and secondary and individuals who intend to select careers related to work with youth. May not be used for natural science, chemistry majors or minors. Lecture 3 hours.

4332* ADVANCED INORGANIC CHEMISTRY LAB, 2 hours credit
An introduction to classical inorganic chemical syntheses, purification methods and analyses. Techniques utilized in the identification of compounds include Fourier transform infrared, ultraviolet and visible, multinuclear magnetic resonance and mass spectrometries. Some synthetic procedures utilize an inert atmosphere approach. Laboratory 6 hours. Prerequisite: CHEM 4334 or concurrent enrollment.

4334* ADVANCED INORGANIC CHEMISTRY, 4 hours credit
An advanced study of the principles of inorganic chemistry. Theoretical concepts to be included in the study are chemical bonding, acid-base chemistry, coordination chemistry, crystal field theory, and molecular orbital theory. An investigation into periodicity of the elements in terms of the effect of atomic size, ionic size, and charge on various chemical properties will be pursued. Lecture 4 hours. Prerequisite: CHEM 3324, PHYS 1215, and MATH 2215.

4351* PHYSICAL CHEMISTRY LABORATORY I, 1 hour credit
Apparatus, method and calculations employed in physio-chemical measurements. Laboratory 3 hours. Prerequisite: CHEM 4353 or concurrent enrollment and CHEM 3232.

4353* PHYSICAL CHEMISTRY I, 3 hours credit
The study of thermodynamics particularly as applied to chemical systems. Prerequisites: CHEM 1474/1471, MATH 2215 and PHYS 1215 or PHYS 2025.

4361* PHYSICAL CHEMISTRY LABORATORY II, 1 hour credit
A continuation of CHEM 4351. Laboratory 3 hours. Prerequisite: CHEM 4363 or concurrent enrollment.

4363* PHYSICAL CHEMISTRY II, 3 hours credit
A continuation of CHEM 4353. Study of kinetics, quantum mechanics, and statistical thermodynamics as related to chemical systems. Lecture 3 hours. Prerequisite: CHEM 4353.

4401* BIOCHEMISTRY I LABORATORY, 1 hour credit
Qualitative and quantitative examination of biochemical materials and reactions. Laboratory 3 hours. Prerequisites: CHEM 3232 and CHEM 4403 or concurrent enrollment.

4403* BIOCHEMISTRY I, 3 hours credit
An introduction to the chemistry and metabolism of carbohydrates, lipids, and proteins. Basic concepts of biochemistry of vitamins and enzymes, biological oxidations, bioenergetics. Lecture 3 hours. Prerequisite: CHEM 3324 or CHEM 3345.

4411* BIOCHEMISTRY II LABORATORY, 1 hour credit
A continuation of Biochemistry Laboratory CHEM 4401. Laboratory 3 hours. Prerequisites: CHEM 4401, CHEM 4413 or concurrent enrollment.

4413* BIOCHEMISTRY II, 3 hours credit
A continuation of Biochemistry, CHEM 4403, with emphasis on the catabolic routes of metabolism. Lecture 3 hours. Prerequisite: CHEM 4403.

4431* ADVANCED INORGANIC CHEMISTRY LAB, 2 hours credit
A course for teachers. Reviews modern theories and concepts applicable to beginning chemistry courses. Lecture 3 hours. Prerequisite: permission of the department.

4472 METHODS OF TEACHING PHYSICAL SCIENCES, 2 hours credit
Methods in teaching the physical sciences for secondary school. Lecture and laboratory demonstrations, 2 hours. Prerequisites: CHEM 3324. Teacher Certification students should be admitted to teacher education prior to enrollment in this course.

4481-3 ADVANCED TOPICS IN CHEMISTRY, 1-3 hours credit
This lecture-based course will focus on a topic or topics of current interest to the chemical profession. Prerequisite: CHEM 3324 or CHEM 3345 or concurrent enrollment.

4303* DRUGS AND THE HUMAN BODY, 3 hours credit
A course for non-science majors designed to provide the information to establish a foundation in the knowledge of drugs widely used or abused. It provides information about the types of drugs encountered, how drugs act in the body, and how they impact on society. The course is especially recommended for education majors, both elementary and secondary and individuals who intend to select careers related to work with youth. May not be used for natural science, chemistry majors or minors. Lecture 3 hours.

4332* ADVANCED INORGANIC CHEMISTRY LAB, 2 hours credit
An introduction to classical inorganic chemical syntheses, purification methods and analyses. Techniques utilized in the identification of compounds include Fourier transform infrared, ultraviolet and visible, multinuclear magnetic resonance and mass spectrometries. Some synthetic procedures utilize an inert atmosphere approach. Laboratory 6 hours. Prerequisite: CHEM 4334 or concurrent enrollment.

4334* ADVANCED INORGANIC CHEMISTRY, 4 hours credit
An advanced study of the principles of inorganic chemistry. Theoretical concepts to be included in the study are chemical bonding, acid-base chemistry, coordination chemistry, crystal field theory, and molecular orbital theory. An investigation into periodicity of the elements in terms of the effect of atomic size, ionic size, and charge on various chemical properties will be pursued. Lecture 4 hours. Prerequisite: CHEM 3324, PHYS 1215, and MATH 2215.

4351* PHYSICAL CHEMISTRY LABORATORY I, 1 hour credit
Apparatus, method and calculations employed in physio-chemical measurements. Laboratory 3 hours. Prerequisite: CHEM 4353 or concurrent enrollment and CHEM 3232.

4353* PHYSICAL CHEMISTRY I, 3 hours credit
The study of thermodynamics particularly as applied to chemical systems. Prerequisites: CHEM 1474/1471, MATH 2215 and PHYS 1215 or PHYS 2025.

4361* PHYSICAL CHEMISTRY LABORATORY II, 1 hour credit
A continuation of CHEM 4351. Laboratory 3 hours. Prerequisite: CHEM 4363 or concurrent enrollment.

4363* PHYSICAL CHEMISTRY II, 3 hours credit
A continuation of CHEM 4353. Study of kinetics, quantum mechanics, and statistical thermodynamics as related to chemical systems. Lecture 3 hours. Prerequisite: CHEM 4353.

4401* BIOCHEMISTRY I LABORATORY, 1 hour credit
Qualitative and quantitative examination of biochemical materials and reactions. Laboratory 3 hours. Prerequisites: CHEM 3232 and CHEM 4403 or concurrent enrollment.

4403* BIOCHEMISTRY I, 3 hours credit
An introduction to the chemistry and metabolism of carbohydrates, lipids, and proteins. Basic concepts of biochemistry of vitamins and enzymes, biological oxidations, bioenergetics. Lecture 3 hours. Prerequisite: CHEM 3324 or CHEM 3345.

4411* BIOCHEMISTRY II LABORATORY, 1 hour credit
A continuation of Biochemistry Laboratory CHEM 4401. Laboratory 3 hours. Prerequisites: CHEM 4401, CHEM 4413 or concurrent enrollment.

4413* BIOCHEMISTRY II, 3 hours credit
A continuation of Biochemistry, CHEM 4403, with emphasis on the catabolic routes of metabolism. Lecture 3 hours. Prerequisite: CHEM 4403.
2213* SELECTED TOPICS IN GENERAL PHYSICS, 3 hours credit
A survey treatment of the basic topics in general physics using calculus. Designed for those students who have taken the non-calculus general physics sequence as preparation for the upper division physics courses. NOT open to students with credit in PHYS 2015 or PHYS 2025. Lecture 3 hours. Prerequisites: PHYS 1215 and MATH 2215.

3003* MODERN PHYSICS I, 3 hours credit
An introduction to the ideas and experiments of 20th Century physics. Topics include special relativity, particle properties of waves, wave properties of particles, the Bohr Theory of the atom, and an introduction to quantum mechanics. Prerequisites: MATH 2215 and concurrent enrollment in PHYS 1215.

3011* MODERN PHYSICS I LABORATORY, 1 hour credit
Selected experiments in modern physics, such as Bragg's Law experiment, Michelson's Interferometer, Gamma Ray Spectroscopy, Hall Effect, Statistics of Data. Laboratory 3 hours. Prerequisite: PHYS 3003 or concurrent enrollment.

3024 ELECTRICAL MEASUREMENTS AND ELECTRONICS, 4 hours credit
Principles and applications of dc and ac circuit analysis to analog and digital electronics, measuring instruments, operational amplifiers and various electronic devices. The physics of solid state electronic devices and their applications. Prerequisites: PHYS 1215 and MATH 2215.

3031 ELECTRICAL MEASUREMENTS AND ELECTRONICS LABORATORY, 1 hour credit
Construction and testing of electrical circuits which are applications of the devices studied in PHYS 3024. Laboratory 3 hours. Prerequisite: PHYS 3024 or concurrent enrollment.

3033* MODERN PHYSICS II, 3 hours credit
A review of the historical background of nuclear physics coupled with modern theories and concepts of the nucleus, elementary quantum mechanics, and an introduction to solid state theory and its applications. Lecture 3 hours. Prerequisite: MATH 3003.

3043 INTRODUCTION TO QUANTUM MECHANICS, 3 hours credit
An introduction to quantum mechanics. Schrodinger equation, probabilities, Heisenberg uncertainty principle, and angular momentum. Applications to atomic physics, molecular physics, condensed matter and nuclear physics. Prerequisites: PHYS 1215 or PHYS 2025 and MATH 3253 or concurrent enrollment.

3303* CLASSICAL MECHANICS, 3 hours credit
A vector analytical approach to the mechanics of particles, systems of particles, and rigid bodies. Lecture 3 hours. Prerequisite: MATH 3253 and PHYS 1115.

3403* HEAT AND THERMODYNAMICS, 3 hours credit
An examination of the principles of energy transfer due to temperature differences. Topics include temperature and temperature scales, equations of state, the three laws of thermodynamics, entropy, thermodynamic potentials, and kinetic theory. Prerequisites: MATH 2235 and PHYS 1215.

4113* ELECTRICITY AND MAGNETISM, 3 hours credit
A study of electrostatic fields and potentials, dielectrics, currents, magnetic fields, and Maxwell's equations. Methods of vector calculus are introduced and used extensively. Lecture 3 hours. Prerequisites: MATH 2244 and PHYS 1215.

4401 OPTICS LABORATORY, 1 hour credit
Selected experiments in ray optics, diffraction, refraction, image formation, interference, lenses, mirrors, lasers, dispersion, polarization and holography. Prerequisite: PHYS 4403 or concurrent enrollment.

4403* LIGHT AND OPTICS, 3 hours credit
A study of geometrical and physical optics. Topics include reflection, refraction, lenses, wave theory, interference, diffraction, dispersion, and polarization. Lecture 3 hours. Prerequisites: PHYS 1215 and MATH 2215.

4452* ADVANCED LABORATORY, 2 hours credit
Experiments in heat, mechanics, optics, nuclear physics, and solid-state physics. Laboratory 6 hours. Prerequisite: department permission.

4481-3 ADVANCED TOPICS IN PHYSICS, 1-3 hours credit
This lecture-based course will focus on a topic or topics of current interest in physics. Prerequisite: PHYS 3003.

4491-3 SPECIAL PROBLEMS, 1-3 hours credit
An individual study course of advanced nature. Subject material varies with background and interests of the student, and may be either class work or laboratory. Laboratory work will be of research quality with individual guidance from a faculty member. Prerequisites: Normally graded on S/U basis. 10 hours of Physics and department permission.

PHYSICAL SCIENCE COURSES (PSCI)

1055* GENERAL PHYSICAL SCIENCE, 5 hours credit
A lecture-demonstration course designed for students with a non-scientific background. The course attempts to integrate the various areas of physical science (physics, chemistry, astronomy and geology) into a comprehensible whole. This course is designed for non-science majors. Lecture/demonstration 5 hours. Prerequisite: One year of high school algebra or equivalent.

4442* LITERATURE FOR PHYSICS AND CHEMISTRY, 2 hours credit
Introduction to the library resources of physical and biological sciences with emphasis on chemistry and physics. Use of the original literature, abstracts, and applications. Development and oral presentation of a research paper and seminar attendance. The final exam is the program assessment instrument. Students taking the course prior to their last year of courses will receive an I for the course and take the final during their last semester prior to graduation. Lecture 2 hours. Prerequisite: Senior standing with a major in chemistry, physics, or natural science.

* Liberal arts & sciences course.
ADULT AND CONTINUING EDUCATION

Sylvia Burgess, Associate Vice President of Academic Affairs

ALLIED HEALTH AND INTERDISCIPLINARY STUDIES-AS AND BS
Debbie Crossland, Advisor

EDUCATIONAL OUTREACH
ORGANIZATIONAL LEADERSHIP-BS
Lorie Garrison, Coordinator

SOUTHWEST OKLAHOMA AREA HEALTH EDUCATION CENTER
SwAHEC
Joe Langley, D.Min., Director
Jenny Breeden, Programs Coordinator, SwAHEC
Lora Young, SwAHEC Program Assistant

The Adult and Continuing Education Division provides quality services to meet the academic and regional community needs for Cameron University constituents by: providing advisement for students in Allied Health, Interdisciplinary Studies, and Organizational Leadership; providing support services to academic schools to strengthen higher education programs delivered in the region; increasing awareness of health care professions and support of learning opportunities for regional health care providers.

UNIVERSITY INTERDISCIPLINARY DEGREES

Cameron University offers the Bachelor of Science Degree and the Associate Degree in Science with a major in Interdisciplinary Studies. These programs are designed to serve active duty military personnel and goal directed students whose educational needs are not met by one of the University's present majors.

Procedures

1. Contact the Office of Adult and Continuing Education to make an appointment with the Allied Health and Interdisciplinary Studies Advisor to create a plan of study. Plans must be approved by the academic department for each area of concentration and by the director.
2. Each person admitted to the program will be assigned an advisor and committee member (if needed) to (a) visit with the student to clarify goals and objectives and (b) develop a program of study.
3. Changes in the plan of study must be approved by the advisor and director.
4. The candidates for graduation must submit a copy of the approved plan of study to the Registrar two semesters prior to planned graduation date to check for compliance with graduation requirements.

BACHELOR OF SCIENCE DEGREE
INTERDISCIPLINARY STUDIES (360)

A student may apply for admission to this program during or after the semester in which 24 semester hours of credit (including transfer and military credit) are completed. A minimum of 24 semester hours must be completed after admission to the degree program. Students must meet computer literacy requirements of at least one of their areas of concentration or complete CIS 1013. This degree may or may not prepare a student for a particular occupation or entry into a graduate or professional school.

I. GENERAL EDUCATION REQUIREMENT .......................................................... 50 hours

II. CONCENTRATION ....................................................................................... 45 hours
Courses selected from two disciplines which in their aggregate comprise a rational combination of skills and concepts. A minimum of 25 semester hours must be upper division courses, 12 of which must be obtained from Cameron.

III. ELECTIVES .................................................................................................. 33 hours

ASSOCIATE IN SCIENCE DEGREE
INTERDISCIPLINARY STUDIES (365)

A student may apply for admission to this program during or after the semester in which 12 semester hours of credit are completed (including transfer and military credit). A minimum of 12 semester hours must be completed after admission to the degree program. Students must meet computer literacy requirements of at least one of their areas of concentration or complete CIS 1013. This degree may or may not prepare a student for a particular occupation or entry into a baccalaureate degree program.

I. GENERAL EDUCATION REQUIREMENT ....................................................... 37 hours

English Composition ........................................................... 6 hours
ENGL 1113 English and ENGL 1213

American History and U.S. Government ................................ 6 hours
PS 1113 and HIST 1483 or HIST 1493
ASSOCIATE IN SCIENCE DEGREE
INTERDISCIPLINARY STUDIES/PRE-BACCALAUREATE NURSING (366)
(In cooperation with the University of Oklahoma College of Nursing)

This program is planned in cooperation with the University of Oklahoma College of Nursing. To be eligible for admission to the baccalaureate nursing program, the graduate of this program must have a minimum cumulative GPA of 2.5 on a 4.0 scale and must have a minimum grade of "C" in all courses identified with *. Associate of Science graduates who meet the stated requirements will be eligible to be considered for admission to the University of Oklahoma College of Nursing’s baccalaureate nursing program. **NOTE:** A student planning for admission to the nursing program at another college or university should consult an advisor at that institution each semester to get current requirements. Nursing courses cannot be used as a minor for degrees granted by Cameron University.

**PREREQUISITE COURSES:**

- **MATH 1513** College Algebra
- **BIOL 2304** Human Anatomy

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ASSOCIATE IN APPLIED SCIENCE DEGREE
RESPIRATORY CARE (575)

This program is a collaborative offering between Cameron University and the Great Plains Technology Center.

**I. GENERAL EDUCATION REQUIREMENT** ................................. 15 hours

- **ENGL 1113** ................................. 3 hours
- **HIST 1483 or HIST 1493** ................................. 3 hours
- **PSYCH 1113** ................................. 3 hours
- **BIOL 1012** ................................. 2 hours
- **CHEM 1361** ................................. 4 hours
- **COMM 1113** ................................. 4 hours

**II. SUPPORT AND RELATED COURSES** ................................. 16 hours

- **ENGL 1113** ................................. 3 hours
- **HIST 1483 or HIST 1493** ................................. 3 hours
- **PSYCH 1113** ................................. 3 hours
- **MATH 1513** ................................. 3 hours
- **COMM 1113** ................................. 3 hours

**III. TECHNICAL OCCUPATIONAL SPECIALTY** ................................. 32 hours

Great Plains Technology Center Respiratory Care Program

**TOTAL** ................................. 63 hours

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BACHELOR OF SCIENCE DEGREE
ORGANIZATIONAL LEADERSHIP (775)

Students who successfully complete the program are granted a bachelor of science in organizational leadership. This degree prepares students for success in government, nonprofit, corporate or industrial careers. The curriculum consists of skills and theory regarding organizational behavior, ethics, interpersonal skills, management, finance and communication skills. State business and education leaders created the degree program so working Oklahomans can advance their careers, increase their incomes and build Oklahoma’s economy.

**I. GENERAL EDUCATION REQUIREMENT** ................................. 40-45 hours
II. MAJOR/MINOR ................................................................. 42 hours

Organizational Leadership Courses

ORGL 3113 Foundations of Organizational Leadership & Personal Development ........................................... 3 hours
ORGL 3223 Professional Communication ........................................ 3 hours
ORGL 3333 Data Analysis and Interpretation ..................................... 3 hours
ORGL 3443 Survey of Fiscal Management ..................................... 3 hours
ORGL 4113 Ethics and Organizations ........................................... 3 hours
ORGL 4223 The Individual, The Organization, and Society .................. 3 hours
ORGL 4333 Leading and Managing ............................................. 3 hours
ORGL 4443 Markets and Stakeholders ........................................... 3 hours
ORGL 4553 Capstone ................................................................ 3 hours
ORGL 4993 Professional Internship (Optional) ............................. 3 hours

Cameron University Focus Courses

Students will complete 12 to 15 hours from the list of courses detailed below. Those who complete the internship (ORGL 4993) will complete 12 hours, and those who do not complete the internship will complete 15 hours of the courses below.

COMM 3313, COMM 3353, COMM 3383, COMM 3393, COMM 3633, COMM 3712, COMM 3833, COMM 4623, COMM 4723, JOUR 3043, JOUR 3343, PUBL 3823

III. PROFESSIONAL ELECTIVE AND FREE ELECTIVE .................. 37-42 hours **

TOTAL ........................................................................ 124 hours

**Courses could include prior academic credit on transcript and/or up to 30 hours of extra institutional credit through CLEP, DANTES, military or prior learning assessment (maximum of 15 hours in this category).

ORGANIZATIONAL LEADERSHIP COURSES (ORGL)

3113 FOUNDATIONS OF ORGANIZATIONAL LEADERSHIP AND PERSONAL DEVELOPMENT, 3 hours credit
This course is an introduction to the Organizational Leadership Bachelor of Science Program. Essential components will include: overview of program expectations; principles of adult learning; resources for success including library, campus, online resources and mentoring relationships; personal wellness/stress and time management techniques; study and test-taking skills; and basic computer skills for working in an online environment.

3223 PROFESSIONAL COMMUNICATION, 3 hours credit
A study of communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation.

3333 DATA ANALYSIS AND INTERPRETATION 3 hours credit
This course will enable the student to develop an understanding of the application and interpretation of basic data analysis. Essential components and course content will include basic data analysis from a user perspective. Hands-on exercises will enable students to utilize Excel to solve problems and interpret results.

3443 FOUNDATION OF FISCAL MANAGEMENT, 3 hours credit
A managerial overview of fiscal management within organizations. Essential components and coursework content will include: understanding the components and articulation of financial statements, knowledge and application of financial ratios leading to an understanding of organizational performance across time and in comparison to industry standards, utilization of financial information in the acquisition of capital and budgeting decisions, and rudimentary understanding of cash flows.

4113 ETHICS AND ORGANIZATION, 3 hours credit
This course is designed to examine the dynamics of workplace and personal ethics through the study of basic philosophical theories. Essential components and course content will include: leadership in the context of self-governance, responsibility adherence to principles, integrity and constancy of purpose. Current case studies will be used to apply ethical theories.

4223 THE INDIVIDUAL, THE ORGANIZATION, AND SOCIETY, 3 hours credit
An examination of contemporary issues that affect organizations. Essential topics include environmental stewardship, social responsibility of the organization, effects and implications of globalization, the status of individual freedom within the organization, diversity, and the ramifications of technological change.

4333 LEADING AND MANAGING, 3 hours credit
This course is a study of theories that influence leadership and management with application to a variety of work situations. Essential components and coursework content will include: basic leadership and behavior styles, negotiation, critical thinking, change, conflict resolution, ethics and social responsibility and diversity in the workplace. Assessment of personal leadership abilities and personality traits will be included.

4443 MARKETS AND STAKEHOLDERS 3 hours credit
This course introduces the student to the concept of markets and stakeholders. Essential components and course content will include: competitive markets, buyer behavior, development of new markets and products, marketing communication, distribution channels, pricing and marketing mix strategies. It will include a discussion of external environmental factors and stakeholder analysis. Students will be able to evaluate market needs, select target markets and develop an appropriate market.

4553 CAPSTONE, 3 hours credit
This course provides the student the opportunity to integrate concepts and theories covered in the core with their area of focus. Students will design and implement a capstone project related to their area of focus culminating in a written and oral presentation. This course must be taken in the student’s final enrollment period.

4993 INTERNSHIP IN ORGANIZATIONAL LEADERSHIP, 3 hours credit
Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. Prerequisites: All core courses except for ORGL 4553, Capstone. Permission of instructor.

UNIVERSITY COURSES (UNIV)

1000 ORIENTATION, 0 hour credit
Designed to provide survival-level information to the new student. An overview of the physical facilities and organizations of the University, policy, procedures, student services, and the library are presented. 2 clock hours.

1001 INTRODUCTION TO UNIVERSITY LIFE, 1 hour credit
A course designed to acquaint the student with the educational and social environment of Cameron University and to provide the skills necessary for transition to university life. Recognition and development of interests and aptitudes; clarification of academic/career goals; development of a student's academic plan are covered. Resources, decision making, and time management are also stressed. Lecture 1 hour. Prerequisite: UNIV 1000.
### 1011 Career Development, 1 hour credit
Designed to encourage and assist students in the exploration of their interests, values, skills, personal assets, and life goals as they relate to general economic conditions and employment trends. Lecture 1 hour.

### 2211-5 Special Studies, 1-5 hours credit
A study of special lower-division areas or problems. Individual course offerings will vary from department to department.

### 3001 Job Seeker Skills, 1 hour credit
Designed for students in their junior or senior year of the traditional four year degree program or the final semester of an associate degree program. Students explore career opportunities beyond graduation and develop a personal job search strategy. Correspondence, resume development, and interview techniques constitute a major portion of the course content. Lecture 1 hour. Prerequisite: Junior standing.

### 4211-5 Special Studies, 1-5 hours credit
An intensive study of special upper-division areas or problems. Individual course offerings will vary by department.

### Minors
A minor for Bachelor of Arts and Bachelor of Science Degree programs consists of a minimum of 18 semester hours in an approved subject area. Defined minors are those for which a specific set of courses is recommended. Other approved minor programs are structured through the advisement process subject to the approval of the chair of the department which offers the courses. Minors which include courses from multiple departments are approved by the dean of the school which offers the majority of the program. Transfer students may use credits earned at other institutions to fulfill minor requirements. A transfer student who desires to minor in an area not listed below may do so, providing Cameron University offers at least 8 semester hours in the subject area. A student may not minor in Education.

### Approved Minor Programs

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* Defined minor

### Defined Minors

#### Accounting
**Non-Business Majors:** ACCT 2013, ACCT 2023 and 12 semester hours of upper division accounting courses.
**Business Majors:** 18 semester hours of upper division accounting courses.

#### Art
ART 1113, ART 1213, ART 1223, ART 2243, ART 2623 and 9 hours of upper division electives.

#### Art History
ART 1013, ART 2613, ART 2623, ART 4633 (9 hours).
Athletic Coaching  
(Closed to Health and Physical Education majors). HLT 3244, HLT 3292, HLT 4503, HPET 4003 and 6 hours chosen from the following: Sports Officiating (2 hours), Theory of Coaching (2-4 hours), Drugs and Society (3 hours), Weight Training (1-2 hours), HPET Special Studies (1-2 hours).

Biology
BIOL 1364, BIOL 1474, BIOL 2124, BIOL 2144, BIOL 2154 and BIOL 3014.

Chemistry
CHEM 1361/1364 and CHEM 1471/1474 and 8 hours selected from CHEM 2113, CHEM 2232, CHEM 3345 OR CHEM 3314 and CHEM 3324 or other approved Chemistry courses.

Computer Science
CS 1301, CS 1313, CS 1501, CS 1513, CS 2401, CS 2413, CS 2513; and one upper division computer science course that applies towards a computer science degree.

Corrections
CJ 1013, CJ 1033, CJ 1113; any three CORR courses.

Criminal Justice
CJ 1013, CJ 1033, CJ 1113; three additional courses in CJ, CORR, or LE; at least one of these courses must be a CJ course.

Economics

Non-Business Majors: ECON 2013, ECON 2023, ECON 3013, ECON 3023, ECON 3313 and 3 hours of upper division business or economics elective.

Business Administration and Accounting Majors:
ECON 3013, ECON 3023, ECON 3313 and 9 hours of upper division economics and business electives.

Environmental Studies
HUM 2513 and selected from the following: GEOL 1024, GEOG 2443, GEOG 3253, SOCI 3373, ECON 4213.

Ethnic Studies
HUM 2513 and 15 hours selected from the following: SPAN 1113, SPAN 1223, SOCI 3013, HIST 3333, GEOG 3243, ENGL 2313, ENGL 2323, HIST 3343, HIST 3353.

Family Science
Required: 6 hours - FAMS 1123, FAMS 1163
Electives: 12 hours to be chosen from any course with a FAMS prefix or FNS 3313.

Foreign Languages
Any 18-hour combination of any level course with a foreign language prefix.

Finance

Non-Business Majors: FIN 3063, FIN 3313, FIN 3623, FIN 4333 and 6 hours of upper division finance electives.

Business Administration and Accounting Majors: FIN 3313, FIN 3623, FIN 4333 and 9 hours of upper division finance electives.

General Business Administration

Non-Business Majors: ACCT 2013, ACCT 2023, ECON 2023, FIN 3603, MGMT 3013, MKTG 3413.

Humanities
HIST 2113 or HIST 2223 and 15 hours selected from the following with no more than 6 hours with the same prefix: ART 2613, ART 2623, ENGL 3063, ENGL 3073, PHIL 1113, HIST 1113, HIST 1123, MUSC 1413, MUSC 1423, THTR 3823, HUM 2513.

Health
(Closed to Health and Physical Education majors). HLT 1053, HLT 2213, HLT 3244, SFTY 3613, FNS 1343 and 2-8 hours from the following: School and Community Health Programs (3 hours), Physiology of Exercise (3 hours), Methods of Materials in Health Education (3 hours), HPET Special Studies (1-2 hours), Other approved health or health related courses (3 hours).

History
HIST 1113, HIST 1123, HIST 1483, HIST 1493, and 6 hours of history electives.

Human Ecology
There are two options for the student who elects a minor in Family Science or General Human Ecology. Detailed information may be obtained from the Department of Psychology and Human Ecology.

Language Arts
It is recommended that 9 to 12 hours be selected from one of the following areas and that 6 to 9 hours be selected from one or more of the other fields listed, for a total of 18 hours. The language arts areas consist of: Foreign Languages, Journalism, Library Science, English (sophomore level or above) (the English option is closed to English majors), Theatre, Communications (except COMM 1113), Professional Writing.

Law Enforcement
CJ 1013, CJ 1033, CJ 1113; any three LE courses.

Management

Non-Business Majors: BUS 1113, ACCT 2013, MGMT 3013, MGMT 3513 and upper division management electives (6 hours).

Business Administration and Accounting Majors: ACCT 3213, MGMT 3513, MGMT 3813, MGMT 4023 or MGMT 4033 and upper division management electives (6 hours).

Management Information Systems

Non-Business Majors: MIS 3013, MIS 3033, MIS 3083, MIS 3223, MIS 4533 and 3 hours of upper division MIS electives.

Business Administration and Accounting Majors: MIS 3033, MIS 3083, MIS 3223, MIS 4533 and 6 hours of upper division MIS electives.

Marketing

Non-Business Majors: BUS 1113, MKTG 3413, MKTG 3423, MKTG 4443 and 6 hours of upper division marketing electives.

Business Administration and Accounting Majors: MKTG 3423, MKTG 4443 and 12 hours of upper division marketing electives.

Mathematics

Required: MATH 2215* and MATH 2235 (*Prerequisites: MATH 1513 and MATH 1613 or satisfactory placement score) and a minimum of 8 credit hours of electives chosen from the following: MATH 2244, MATH 2613, STAT 3013, MATH 3013, MATH 3213, MATH 3253, MATH 3302, MATH 3333, MATH 4113, MATH 4423, MATH 4433, MATH 4483**. (*Prerequisite: MATH 2613. **Prerequisites: MATH 2235 and MATH 2613)

Multimedia Design
MM 1013, MM 1133 and 12 hours of MM electives.
Museum Studies
Prerequisites: HIST 1483 and HIST 1493. Required: MUSM 2003, MUSM 3003, MUSM 4003 (to be repeated for a total of 6 hours), and two of the following: HIST 2133 (recommended), HIST 2113, HIST 3113, HIST 3343, HIST 2033 or HUM 2513.

Music
Band/Choir/Accomp./Orch. (4 semesters)
MUSC 1413, MUSC 1423, MUSC 2312, MUSC 2332, MUSC 3801 (4 semesters), MUSC 1000 (4 semester).

Philosophy
PHIL 1113, PHIL 2213, PHIL 3013, PHIL 3123 and at least two of the following courses: EDUC 3013, PHIL 4591-3, PS 3613, PS 3623, PS 3633, PS 4673

Physical Education and Health
FNS 1343, HPET 2322, HPET 4203, HLTH 3292, HLTH 3303, HLTH 4503 and 2-8 hours chosen from Health and Physical Education and/or SFTY 3613. Physical education activity courses will not meet this requirement.

Physics
PHYS 1115 and PHYS 1215 or PHYS 2015 and PHYS 2025, PHYS 3003 and electives (5 hours).

Radio/Television
RTV 1013, RTV 2213, RTV 2313 and RTV electives 9 hours.

Recreation
HPET 2322, HPET 3353, HPET 3363, Aquatic Activity Class (1 hour) and electives 9 hours. Courses chosen from the following: HPET 3373, HPET 4222, HPET 4003, HPET 3052 or 3062, SFTY 3613, HLTH 2213, SFTY 3723, PE Activities (2 hours), HPET special studies (1-2 hours).

Recreational Arts
To be selected from the following 3 areas with a minimum of 3 hours and no more than 9 hours from any one area for a total of 18 hours.
Art: ART 1113, ART 1023, ART 2313, ART 2513, ART 2813, ART 3833
Music: (Must include MUSC 3683 Music for the Elementary Teacher) MUSC 1111, MUSC 1141, MUSC 1023
Theatre: THTR 1103, THTR 1203, THTR 1603, THTR 2603, THTR 3403

Speech Communication
COMM 1113, COMM 2313 or COMM 3393 and electives 12 hours.

Statistics
MATH 2215*, MATH 2235, STAT 3013**.
(*Prerequisite: MATH 1513 and MATH 1613 or satisfactory placement score  **Prerequisite: MATH 1513 or satisfactory placement score) and a minimum of 5 credit hours of electives chosen from the following: STAT 3023, STAT 3113, STAT 3123, STAT 3202, MATH 3253, MATH 3333, MATH 3302, MATH 4113, MATH 4433.

Theatre Arts
THTR 1103, THTR 1203, THTR 2603 and electives 9 hours.

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ADAM-RODWELL, GABRIELA (2003) Chair, Biological Sciences, B.S., Pedagogic Institute of Bucharest; M.S., Ph.D., University of Bucharest; Ph.D., Medical College of Ohio.


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BRYAN, CLINTON (1988) Physical Sciences, B.S., University of Arkansas; M.S., University of Kansas; Ph.D., University of Arkansas.

BUCKLEY, GARY (1986), Physical Sciences, B.S., Northern Illinois University; M.S.; Ph.D., Texas A&M University.

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CLOPTON, DONNA (2005) Director, Language Learning Center, English and Foreign Languages, B.A., University of Texas-Austin; M.A., University of Kentucky.


DACITY, BRENDA (1997) Assistant Director of Admissions, M.S., B.A., Cameron University.

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DUN N, MICHAEL T. (2003) Biological Sciences, B.S., M.S., Cameron University; B.A., University of Hawaii; M.B.S., Cameron University.

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DZ IN D OLE T, MARY (1993) Psychology and Human Ecology, B.A., Skidmore College; M.A.S., Louisiana State University; Ph.D., University of Texas.


E D N, REBECCA (2009) Physical Sciences, B.S., Carroll University; M.S. University of Massachusetts.


F I S C H E R, LEON (1991) Chair, Department of Agriculture, B.S., Cameron University; M.S., Ph.D., Oklahoma State University.


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G L A Z E R, COURTNEY (2005) Coordinator of Field Experiences, Education., B.A., Emory University; M.A., Stanford University; Ph.D., The University of Texas at Austin.


G O D S A V E, BAYARD (2009) English and Foreign Languages, B.A., SUNY-Fredonia; M.F.A., Minnesota State University, Moorhead; Ph.D., University of Wisconsin-Milwaukee.


G U T H R I D G E, CARLA (2002) Biological Sciences, B.S., Eastern Kentucky University; Ph.D., University of Kentucky.


H E F L I N, JAMES L. (1985) Communication, B.A., Mississippi College; M.S., Ph.D., University of Southern Mississippi.

H E L V E Y, AUBREE L. (2002) Assistant Vice President of Academic Affairs, B.A., Cameron University; JD., University of Oklahoma; CPA.


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H I T E, DWIGHT (2009) Business, B.S., Kansas State University; M.B.A., University of Texas at Arlington; Ph.D., University of North Texas.


H U S A K, MANDY (2005) Director, Testing, B.S., Mississippi College for Women; M.S., Mississippi State University.

H U S A K, MICHAEL S. (2003) Biological Sciences, B.A., M.S., Angelo State University; Ph.D., Mississippi State University.


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RONAN, JIM (1998) Director of Public Safety, A.A.S., B.S., Cameron University; M.C.J.A., Oklahoma City University.


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SHEGGOG, DEANICE (2008) Student Counselor, Student Services, M.S., Cameron University.

SIMON, KELLY (1990) Information Technology Services, Analyst/Programmer, A.A.S., B.S., Cameron University.


SMITH, KATHLEEN (2000) Computing and Technology, B.S., University of Arizona; M.S., University of Southern California.


SMITH, MICHELLE, (2000) Chair, Education, B.S., Cameron University; M.S., Oklahoma State University State University; Ed.D., Oklahoma State University.

SOYLU, ALLI (2008) Business, B.A., Anadolu University (Turkey); M.B.A., Drexel University; Ph.D., Temple University.


STEGMAIER, MARK J. (1975) History and Government, B.A., University of Santa Clara; M.A., Ph.D., University of California at Santa Barbara.


STROUD, SARAH (2002) Assistant Director, Open Doors (Talent Search), B.S., M.S., Cameron University.


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TARATABAL MOHAMMAD (1984) Mathematical Sciences, B.S., National University of Iran; M.S., Florida State University; Ph.D., Memphis State University.

TAN, HUI (2008) Physical Sciences, B.S. Hunan Medical University; M.S., Beijing Institute of Traumatology/Orthopaedics; Ph.D., University of Oklahoma.


THOMLINSON, VIVIAN A. (1988) English and Foreign Languages, B.S., East Texas State University; M.A., Ph.D., Texas Women’s University.


TREADWELL, GREGORY (2003) Business, B.S., Cameron University; M.S., Oklahoma City University; E.A., C.F.M., C.M.A., C.P.A.


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WOHLERS, ANTON (2005) History and Government, B.A. History and B.A. Political Science, University of Saarland, Germany; B.A. Sonoma State University; M.A., University of Illinois-Springfield; Ph.D., Northern Illinois University.


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ATWATER, O. THOMAS (1978) History and Government, B.A., St. Mary’s College of California; Ph.D., University of Notre Dame. 2002

BENNETT, ALLISON C. (1976) Chair, Agriculture, B.S., M.S., Oklahoma State University; Ph.D., Auburn University. 2000

BLACKBURN, MARCY (1993) Education, B.S., Cameron University; M.Ed., Southwestern Oklahoma State University; Ph.D., University of Oklahoma.


BREWER, BURNEY, H. (1929) Social Science, B.S., Central State University; M.Ed., University of Oklahoma. 1982


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COOPER, MICKEY (1964) Biological Sciences, B.S., East Central State College; M.S., Ph.D., Oklahoma State University. 2000


CRANE, JOE (1969) Chair, Physical Sciences, B.S., M.S., Ph.D., Oklahoma State University. 2006


DOANE, BENNE (1975) Agriculture, B.S., Oklahoma State University; M.S., University of Illinois. 1995


EPPESON, WAYNE E. (1968) Biological Sciences, B.S., M.S., Ph.D., Oklahoma State University. 2003

FINKE, WILLIAM C. (1966) *Physical Science*, B.S., Southeastern State College; M.T. Southwestern State College; Ph.D., University of Oklahoma. 1987


GROVES, DAVID L. (1988) *Biological Sciences*, B.S., Marietta College; M.S., Ph.D., University of Wisconsin. 2006


HAJEK, FRANCIS B. (1968) *Mathematical Sciences*, B.S., Peru State College; M.S., Kansas State University; M.S., Ed.D., Oklahoma State University. 2006

HARMON, JOHN C. (1953) *Biology*, B.S., Southwestern State College; M.S., North Texas State University. 1987

HARRISON, WADE (1996) *Associate Provost, Division of Educational Outreach*, B.A., M.S., Ph.D., University of Oklahoma.

HAWK, IRA L. (1968) *Physical Sciences*, B.S., M.S., Oklahoma State University; Ph.D., Baylor University. 2004


HINES, JESSIE MAY (1946) *Language Arts*, B.A., Central State University; M.A., Oklahoma State University. 1972

HOLMES, LEIGH (1975) *English*, *Foreign Languages and Journalism*, B.S., University of Florida; M.A., University of Missouri; Ph.D., University of Kansas. 2003

HOPKINS, HOWARD R. (1968) *Biological Sciences*, B.S., M.S., Penn State University; Ph.D., Oklahoma State University. 1996

HOPKINS, SCOTT (1976) *Education*, B.S., East Central State University; M.T., Northeastern State University; Ed.D., Oklahoma State University. 1993

HORNER, JAMES (1976) *Business-Economics*, B.B.A., West Texas State University; M.S., North Texas State University; Ph.D., University of Texas at Dallas. 2007

HUCKABAY, GARY (1974) *Mathematical Sciences*, B.S., Southwestern State College; M.A., University of Missouri; Ph.D., Oklahoma State University. 2003

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KENNEDY, IRA E. (1965) *Agriculture*, B.S., M.S., Oklahoma State University. 2000


LAIR, MARILYN G. (1968) *Administrative Sciences*, B.S., Oklahoma College of Liberal Arts; Ph.D., University of Oklahoma. 1987


MAPLES, VAL (1957) *Health and Physical Education*, B.S., Southwestern State College; M.S., Oklahoma State University. 1988

MARTIN, DAVID L. (1970) *Chair, Agriculture*, B.S., Oklahoma A&M; M.S., Oklahoma State University. 1985


MCCOLLOM, TOM (1959) *Music*, B.M., Oklahoma State University; M.M., Yale University; D.M.E., University of Oklahoma. 1992

MCCOY, DOYLE (1969) *Biology*, B.S., East Central State University; M.S., University of Oklahoma; Ph.D., Oklahoma State University. 1982

MCKELLIPS, KAREN (1968), *Education*, B.S., Southwestern State University; M.S., Ed.D., Oklahoma State University. 2001

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MERAZ, EMMETT (1959) *Mathematical Sciences*, B.S., Southwestern State College; M.E., University of Oklahoma. 1986


MILLER, SYLVIA A. (1978) *Business-Marketing*, B.A., Southeastern Missouri University; M.A., University of New Mexico; M.B.A., Ph.D., University of Oklahoma. 2007

MORRIS, JAMES KENT (1968) *Mathematical Sciences*, B.S., Southwestern State College; M.T., Central State College; Ed.D., North Texas State University. 2005

MUSSELWHITE, LYNN RAY (1971) *History and Humanities*, B.A., Abilene Christian College; M.A., Ph.D., Texas Tech University. 2001

NEWELL, SHERRY ANNE (1975) *English*, B.A., B.S., Baker University; M.A., University of Kansas. 1994

NETHERLAND, EDWIN LANE (1972) *Biological Sciences*, B.S., Huntington College; M.S., Ed.D., Oklahoma State University. 2004


PATE, EUGENE F. (1964) *Communications*, B.S., State College of Arkansas; M.A., University of Arkansas. 1985

PAZOURRECK, REBECCA L. (1978) *Psychology and Human Ecology*, B.A., James Madison University; Dietetic Internship, Virginia Commonwealth University; M.S., University of Oklahoma; Ph.D., Oklahoma State University. 2004


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PROPHET, DONALD P. (1947) *Agriculture*, B.S., M.S., Oklahoma State University. 1982


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SEALS, THELMA JOLLY (1959) Physical Science, B.S., Oklahoma State University; M.Ed., University of Oklahoma; M.S., Oklahoma State University. 1978
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SMITH, CHARLES WAYNE (1970) Chair, History and Humanities, B.S., William Carey College; M.A., Ph.D., University of Southern Mississippi. 2000
SNIDER, THEODORE (1968) Physical Sciences, B.S., M.S., Kansas State College of Pittsburgh; Ph.D., Oklahoma State University.
SOLSTAD, KENNETH (1972) English and Foreign Languages, B.A., Yale University; M.A., Ph.D., University of California at Berkeley. 2005
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WAGNER, HARRY (1969) Mathematical Sciences, B.S., Naval Postgraduate School; M.S., Kansas State Teachers College; Ed.D., University of Arkansas. 1990
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