



Cameron University Catalog



1997 - 1999

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CAMERON UNIVERSITY

1997-1999 CATALOG

2800 West Gore Boulevard
Lawton, Oklahoma 73505

EQUAL OPPORTUNITY POLICY

This institution in compliance with all applicable Federal and State laws and regulations does not discriminate on the basis of race, color, national origin, sex, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, and educational services.

PREFACE

This catalog provides information about the academic programs of Cameron University. It also contains information concerning admissions, academic regulations 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.

Since 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, interests of individual professors 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. For administrative reasons, because of insufficient enrollment or because of limited resources, any given course might not be offered in the announced semester. 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 annually submits a proposed academic calendar to the Oklahoma State Regents for Higher Education (OSRHE) by January 1 preceding the fall semester for which the calendar is to become effective. Academic calendars are typically approved in February. Following are OSRHE standards relating to the academic calendar:

1. The first semester will begin toward the latter part of August or the first of September and will close just prior to the Christmas vacation period.
2. The second semester will begin following the Christmas vacation in January and will end prior to the first week of June.
3. The summer session will begin about the first week in June and will end during the early part of August.

The approved calendar is distributed to all campus units and is included in the **Enrollment Schedule** published for 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 placement, 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.

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ACCREDITATION

Cameron University is accredited by the **NORTH CENTRAL ASSOCIATION OF COLLEGES AND SCHOOLS** and the **OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION**.

The Teacher Education programs at Cameron University are accredited by the **OKLAHOMA STATE BOARD OF EDUCATION** and by the **NATIONAL COUNCIL FOR THE ACCREDITATION OF TEACHER EDUCATION (NCATE)**. Approved graduates are recommended for teaching licenses in the elementary and secondary schools of Oklahoma.

The Bachelor of Arts and Bachelor of Music Degrees offered by the Department of Music are fully accredited by the **NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC**.

The Associate Degree Program of the Department of Nursing is fully accredited by the **NATIONAL LEAGUE FOR NURSING**.

The Cameron University Department of Nursing is also approved by the **OKLAHOMA BOARD OF NURSE REGISTRATION AND NURSING EDUCATION**. Graduates of this program are eligible to take the NCLEX for registered nurse licensure.

Each hospital utilized for nursing clinical experience is accredited by the Joint Commission on Accreditation of Hospitals.

The Computer Aided Design Drafting curriculum is certified by the **AMERICAN DESIGN DRAFTING ASSOCIATION** at the Design Drafter level.

The Engineering Design Technology curriculum is certified by the **AMERICAN DESIGN DRAFTING ASSOCIATION** at the Engineering Designer level.

OFFICE OF EQUITY ISSUES

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.

The Office of Equity Issues oversees the University's adherence to equal opportunity and affirmative action laws and regulations and is responsible for investigating and resolving complaints of discrimination.

Please contact the Office of Equity Issues 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. The Office of Equity Issues is located in the Administration Building, Room 230, 405-581-2291 (Voice) or 405-581-2518 (TDD).

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.Acctg.), 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.

Master of Arts in Teaching*

Master of Science*

Master of Education*

Concentrations

Early Childhood Education
Elementary Education
Reading Specialist Certificate

Secondary Education
Special Education
Alternate Program

Master of Business Administration*

Bachelor of Accounting Degree

Bachelor of Arts Degree Majors

Art
Communications
English
History
Mathematics

Music
Political Science
Romance Languages
Theatre Arts

Bachelor of Business Administration Degree

Concentrations

Business Systems
Economics
Finance

General Business Administration
Management
Marketing

*See the Graduate School Catalog for details regarding Masters Degree Programs.

Bachelor of Fine Arts Majors

Studio Art

Bachelor of Music Degree Concentrations

Composition
Instrumental Music Education
Instrumental Music Performance

Keyboard Performance
Vocal Music Education
Vocal Music Performance

Bachelor of Science Degree Majors

Agriculture
Biology
Chemistry
Communications Electronic Systems
Computer Information Systems
Computer Science
Criminal Justice
Elementary Education
Engineering Design Technology

Health and Physical Education
Human Ecology
Interdisciplinary Studies
Medical Technology
Natural Science
Physics
Psychology
Sociology
Technology

Associate in Science

Interdisciplinary Studies

Associate Degree in Applied Science Majors

Computer Aided Design Drafting
Criminal Justice
Data Processing

Nursing
Telecommunication Electronics

NON DEGREE PROGRAMS

Teaching License Programs. Cameron University offers a program whereby a person who already holds an appropriate degree may complete the requirements in professional education leading to an Oklahoma early-childhood, elementary, secondary, or elementary- secondary teaching license. Students seeking teaching licenses must consult the Director of Teacher Education concerning approved programs. Details regarding the teaching license programs are found in the teacher education section of this catalog and in the Teacher Certification Catalog.

Pre-Professional Programs. Cameron University offers course work at the pre- professional level for such fields as pre-medicine, pre-dentistry, pre-law, pre-pharmacy, pre-veterinary medicine and pre-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
Computer
Electrical
Industrial
Mechanical
Law
Medicine
Pharmacy
Veterinary Medicine

ASSISTING DEPARTMENT

Technology
Biology/Physical Science

Technology
Physical Science
Technology
Technology
Technology
Technology
Politics, Sociology and Criminal Justice
Biology/Physical Science
Biology/Physical Science
Agriculture/Physical Science

THE HONORS PROGRAM

Cameron University's Honors Program provides a system of supports and rewards for students who demonstrate exceptional achievement in their pursuit of academic excellence. The Honors Program also provides a central focus for the pursuit of academic excellence on the Cameron Campus.

The program offers honors sections of numerous courses that meet general education requirements, honors options in a number of other courses, and honors seminars in special topics. These courses and honors options are open to students with high levels of talent, preparation, and/or motivation. Typically, they are small, discussion oriented classes, and they are often augmented by field trips, museum visits, guest lectures, technological enhancements, and team teaching. All honors courses are acknowledged as such on the student's official transcript. Full listings of honors course offerings are published regularly by the office of the Honors Program. Honors course offerings are structured to encourage students to complete a significant proportion of their General Education requirements in honors courses and to encourage students to reconsider the interrelationship between disciplines and careers in interdisciplinary upper division seminars. Course offerings are often linked to Cameron University's Festival themes. This enables the Honors Program to engage students with the work of additional scholars of national and international reputation during their undergraduate years. The Honors Program also encourages the development of honors degree tracks in the major disciplines.

The program also coordinates the activities of the Cameron honor societies and works to increase their visibility and to maximize their role as hubs of academic leadership in the Cameron campus community. Through the Forum of Honor Societies, the Honors Program is also actively involved in the encouragement of the development, presentation, and publication of scholarly work by Cameron students. The Forum also administers a program which grants tuition waivers and other awards to students who present work at scholarly conferences.

The aim of the Honors Program 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. The Honors Program also publishes a journal, *Quivira*, and provides honor students with an Honors Study Center, which includes a computer facility.

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 May of 1992, an act of the legislature transferred the governance of Cameron University to the board which had previously governed only the University of Oklahoma. This new relationship with the University of Oklahoma has been hailed as the opportunity to underscore the emergence of Cameron as an interactive multi-purpose University. Both universities are committed to cooperative efforts to assure that the need for higher education programs and services are met throughout Southwest Oklahoma. Cameron will continue as the higher education center of Southwest Oklahoma and will now be better positioned to fulfill the requirements of its interactive philosophy and mission.

MISSION

Cameron University is a multi-purpose university whose mission is to offer appropriate educational programs to the people living in its service area of the eleven counties of Southwest Oklahoma. One of Oklahoma's seven regional universities, Cameron is the higher education center of Southwest Oklahoma offering associate, baccalaureate, and master's degree programs. The University recognizes that the educational process includes the development of the intellectual, cultural, social, physical, moral, and occupational capacities of persons who participate in its programs and activities. The University desires to assist its students and other persons living in its service area in acquiring the skills, knowledge, values, and attitudes that will enable them to lead creative, productive, and self-fulfilling lives.

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 which are 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 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. The University seeks to facilitate such objectives by offering curricula leading to Masters Degrees.

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 or 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 servicemembers to move from random educational activities into program-completion efforts. It allows maximum coordination of opportunities among institutions. 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.

ROOM AND BOARD CHARGES

All students residing on campus must sign a contract for Residential Life Services. This lease type agreement represents the contractual responsibilities of both the individual and the University. Rates are based on a per person charge.

Current room and board costs for living in University housing may be obtained by writing to: Office of Residence Life, Cameron University, Lawton, Oklahoma 73505.

Room and board are payable in advance, but arrangements may be made to pay them in four installments each semester. Students living in the residence hall are required to take their meals in the University dining hall. The University reserves the right to change at any time the charge for board if any food prices necessitate or permit a change. A meal plan may be used only by the person purchasing the meal plan. Meals are not transferable.

Details pertaining to the refunds of room and board payments are contained in the contract for Residential Life Services or may be obtained from the Office of Residence Life.

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.

SCHOLARSHIPS

Each year, 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 based upon scholastic ability, financial need, demonstrated talent in individual studies, athletics or fine arts.

For additional information, applicants should contact the Financial Assistance Office 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 fee 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 March 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 Department of Human Services, through the Vocational Rehabilitation Division, offers payment of tuition and other services to students who have certain physical handicaps, provided the vocational

objective selected by the student has been approved by a representative of the division. Application for Vocational Rehabilitation should be made to the Vocational Rehabilitation Office, 1324 NW 53rd, Lawton, OK 73505, 353-8300.

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 Advanced Camp.

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.

***Two-Year scholarships** are also available for students who attend Camp Challenge at Fort Knox, Kentucky. This scholarship is specifically designed for students who will become academic juniors and have not completed the Basic Course. Students are paid while attending Camp Challenge.

***Cameron University non-scholarship** students who participate in the Army Reserve Officers' Training Corps Simultaneous Membership program (Reserve/National Guard) are eligible to earn up to \$3,400 each year for education assistance.

***Additional smaller scholarships** available through 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 and applications are available at the Military Science Department.

STUDENT EMPLOYMENT

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

Employment eligibility is determined by financial need. Students seeking employment on campus should visit with a Financial Aid counselor. Vacancy listings of on-campus jobs are available in the Financial Assistance office. Off-campus part-time jobs are listed in the Placement office in the Student Development Office.

GRANTS

Federal and state funds are available through Cameron University in the form of educational grants (Pell, OTAG or SEOG) 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.

LOANS

Cameron University is a participant in the Guaranteed 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 servicemembers 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.

First Time Entering Freshmen 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) minimum composite ACT of 19 or SAT of 870 **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)
 - 2 years of history (must include one unit of American History)
 - 1 year of citizenship skills (economics, geography, government, non-western culture)
 - 3 years of other (additional subjects previously mentioned or selected from computer science, foreign language)

objective selected by the student has been approved by a representative of the division. Application for Vocational Rehabilitation should be made to the Vocational Rehabilitation Office, 1324 NW 53rd, Lawton, OK 73505, 353-8300.

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

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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 Advanced Camp.

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.

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GRANTS

Federal and state funds are available through Cameron University in the form of educational grants (Pell, OTAG or SEOG) 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.

LOANS

Cameron University is a participant in the Guaranteed 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.

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- graduate of an accredited high school or possess a GED (student's high school class must have graduated) minimum composite ACT of 19 or SAT of 870 **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)
 - 2 years of history (must include one unit of American History)
 - 1 year of citizenship skills (economics, geography, government, non-western culture)
 - 3 years of other (additional 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 19 or SAT of 870 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 of Science and Associate of 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, admitted to an Associate of Science or Associate of Applied Science degree program must remove curricular deficiencies within the first 24 semester hours attempted and prior to taking courses in the discipline. To transfer to a baccalaureate degree program, the student must formally apply and meet both the curricular and performance admission standards.

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 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:

- Meet the admission criteria (including ACT score of 21) for non-adult students other than high school graduation and curricular requirements.
- 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.
- Be eligible to satisfy requirements for graduation from high school (including curricular requirements for college admission) no later than the spring of the senior year, 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:

- Have achieved a composite score which places him/her at or above the 90th percentile on the American College Test using Oklahoma norms, or
- Have achieved a combined verbal and mathematical score on the Scholastic Aptitude Test which places him/her at or above the 90th percentile using national norms.

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:

- The student is 17 years of age or older and meets Cameron's standardized test (ACT/SAT) admissions requirements, or
- The student is 16 years of age and has achieved test scores required for provisional admission as a high school eleventh grader.

Maximum load, including both 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:

- 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
- 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
- The student originally met the performance but not the curricular requirements for admission to Cameron and has removed curricular deficiencies, or
- 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:

- Be in good standing in the institution from which s/he plans to transfer.
- 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.
- 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 to be eligible for admission to Cameron, but have not been formally suspended by another higher education institution, may be admitted as "transfer probation" students. Students seeking admission in this category should contact the Director of Admissions for details 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 lower division requirements for bachelor of arts or bachelor of science degrees. Additional lower division requirements will be required only 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 readmission.

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 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.

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 prior to the student's next registration. All grade reports and 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 enjoying majority privileges (or is legally emancipated from the parental domicile) and who is responsible for his/her own care, custody, and support.
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)

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 a 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 are year-round residence, ownership of property, registration for and voting in state general elections, filing an Oklahoma income tax return for the most recent calendar year, and payment of ad valorem property taxes. Since residence or domicile is at least partially a matter of intent, each case will be judged on its own merits, and no definitive or "magic" set of criteria can be established as sufficient to guarantee classification as a resident of Oklahoma.

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 last 30 semester hours required for the degree must be completed in residence at Cameron University.
- 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.
See the Graduate School Catalog for information about the requirements for masters degrees.

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 "I", "W", "S", "U", 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 Coordinator of General Education is ultimately responsible for determining the applicability of transfer credits to meet general education requirements. The Coordinator 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. Only one degree will be conferred at one commencement.
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. Only one degree will be conferred at one commencement.
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. **Duplicate 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 not later than 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 are invited and encouraged to attend. A candidate who cannot attend commencement should notify the Office of the Registrar.
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 3.8 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 3.6 and 3.8 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 eight semester hours. The maximum load that a student will normally be permitted to carry is 18 semester hours during a regular semester or nine 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.** Freshman 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 initiated in the Registrar's Office or departmental offices and completed by processing an Add/Drop form through the Business Office.
 - *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."
 Courses dropped after the twelfth week of a regular semester or proportionate period of other sessions and prior to the end of the fourteenth week of a regular semester or proportionate period of other sessions will be recorded on a student's academic record with a symbol of "W", or grade of "F", as assigned by the instructor.
 Courses may not be dropped after the fourteenth week of a regular semester or proportionate period of other sessions.
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 indication that it will be an audit. Auditors are not held 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. These instructions will be stated in writing and distributed to students prior to the end of the period for dropping courses without an entry on a student's academic record (see regulation 20). 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 official withdrawal. To officially withdraw from the University, follow the procedures listed in the *Enrollment Schedule* published for each semester and summer session. It is a student's responsibility to complete the withdrawal process. Grades will be assigned in accordance with regulation 20. A student may not withdraw during the last two weeks of a semester or proportionate period of other sessions. If because of unavoidable circumstances a student is unable to personally complete the withdrawal process, he/she should contact the Registrar's Office by mail or by phone for assistance.

24. **Credits.** Credits are given in semester hours. A semester hour consists of one hour (50 minutes) of class work or a minimum of two hours of laboratory work per week for a regular semester.
25. **Course Number System.** Course numbers are four digits. The first digit indicates the class year in which the subject is ordinarily taken. A zero in the first digit indicates a non-college level course. The last digit indicates the credit hours awarded for the course. The two middle digits identify the course within the department. For example a course numbered 2013 is a sophomore course carrying three semester hours of credit.
26. **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 department, or who are pursuing a particular major or majors. Prerequisites are listed with the course descriptions.
27. **Grading System.** Academic performance is evaluated using the marks shown in the following table.

GRADES USED IN CALCULATING GRADE POINT AVERAGE			GRADES NOT USED IN CALCULATING GRADE POINT AVERAGES	
GRADE	NOTE	PTS/HR	GRADE	NOTE A
A	EXCELLENT	4	S	SATISFACTORY
B	GOOD	3	U	UNSATISFACTORY
C	AVERAGE	2	P	PASS
D	BELOW AVERAGE	1	NP	NO PASS
F	FAILURE	0		
SYMBOLS USED TO INDICATE COURSE STATUS				
SYMBOL	NOTE		SYMBOL	NOTE
I	INCOMPLETE		W	WITHDRAWAL
AW	ADMINISTRATIVE WITHDRAWAL		N	GRADE NOT REPORTED
AU	AUDIT		X	THESIS IN PROGRESS

“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 Provost to indicate that the student was administratively withdrawn for disciplinary or financial reasons or inadequate attendance.

“T” 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 “T” have no more than one full semester (unless otherwise specified by the instructor) to complete the required work for the course. The instructor shall record the conditions and time limit for removing the “T” on the back of the official 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. If the instructor has not submitted a grade change within one year after the time has expired for removing the "I," the grade will remain as an "I." 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 signed the official class roll reporting 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. **Grade Reports.** Reports of final grades are made available to students at the end of each semester, summer session and eight week session.
32. **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 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 a minimum of 12 semester hours of 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. Appeals of academic suspension due to "extraordinary personal circumstances" will be considered by the Academic Appeals Committee. Copies of appeals procedures may be obtained from the Office of Admissions.

Readmission After Suspension. A student who has been academically suspended from the University may apply for readmission after one regular semester (fall or spring). Suspended students can be readmitted only one time, on probationary status, and must maintain a 2.0 GPA each semester attempted while on probation or raise their retention GPA to the retention standard. Should a reinstated student be suspended a second time, he/she cannot return to the suspending school until such time as he/she has demonstrated, by attending another institution, the ability to succeed academically by raising his/her GPA to retention standards. Copies of the procedures and conditions for readmission may be obtained from the Office of Admissions.

33. **Transcripts.** A student may obtain a copy of his/her transcript from the Office of the Registrar for a nominal fee.
34. **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.
35. **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 Coordinator of General Education. 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 Associate Provost for Undergraduate Studies or Provost.
36. **Advanced Standing Credit.** Extracurricular learning is defined as learning that is attained outside the sponsorship of accredited postsecondary institutions. Cameron awards advanced standing credit for Extracurricular 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.
37. **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. The aim is to carry well-prepared, motivated students deeper into the subject matter of the course. All honors courses are designated as such on the transcript.
38. **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.

39. **Academic Forgiveness Policy.** The policy provides a means for classifying courses as "reprieved" 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 reprieve has been granted under the provisions of the Forgiveness Policy.
40. **Remedial/Developmental Course.** A course to prepare students for college level work. The course cannot be used to meet degree requirements.
41. **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.
42. **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.
43. **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 SERVICES

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

High School University Relations

High School/University Relations personnel maintain contact with area schools and residents to inform them of the educational opportunities that exist at Cameron University. The Coordinator oversees the University's recruiting program. Campus tours may be arranged through this office. This office administers a freshman fee waiver scholarship. The deadline for applications is **March 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. As well, students can contact the Financial Assistance Office (581-2293) for further information on application procedures.

Residence Halls

Cameron University provides campus living for approximately 600 students in Shepler Center. Female students reside in North Shepler Tower while male students are housed in South Shepler Tower. Each tower has lounges, laundry facilities, public telephones, and vending machines. Between the twin towers are the common areas that include: the cafeteria, snack bar, and mezzanine meeting rooms.

Each resident has a single bed, desk and chair, large closet, and storage areas in the room. Private rooms are available on a first-come first-served basis if space permits. Also, the resident must decide the most appropriate meal plan. Six meal plans are available: 10, 15, or 20 meals per week; the resident may also purchase the flex meal plan. Resident student dining rooms are located in the Shepler Center Complex. Meals are provided by an outside professional food service under contract with the University. A residence hall ID card be presented before the resident may enter the dining room for meals.

Student Development

Counseling

The Student Development Center provides some personal counseling to help students work through problems that may affect their educational pursuits.

Student Success Program

The Student Success Program, designed to assist students in their endeavor for college success, is a feature of the Student Development Center. This program offers many free services such as tutoring referrals, campus lab referrals, workshops, seminars, personal counseling, and academic counseling.

Career Exploration

Recognizing that career development is an ongoing process, a Career Resource Center is maintained to help students select an appropriate major or learn about specific career requirements. The CRC contains:

- A collection of college, university, and professional school catalogues.
- A computer based system providing information related to occupational, and post-secondary educational institutions.
- Corporate literature, pamphlets, and brochures containing information related to services and products produced by industrial and governmental agencies.
- A career resource file, books, and periodical literature related to career exploration and decision making processes.

Multicultural Affairs

The Office of Multicultural Affairs and Disabled Services is located in North Shepler, and provides dual services to the Cameron University community. The office functions as a liaison between minority students and other University factions. Multicultural Affairs has the following responsibilities: (1) to assist with the recruitment, retention, and placement of minority students; (2) to effectively articulate the needs of minority students to appropriate administrators; (3) to promote and facilitate harmony between minority students and other University factions; (4) to establish and implement campus programs which heighten awareness of minority students diverse cultural origins; and (5) to assume supportive and consultative roles for minority students on an as needed basis.

Disabled Services

This service also facilitates access for academic services to disabled students and provides applications for temporary handicapped parking permits. It is the University's philosophy that disabled students have an opportunity to share the same educational experiences as the able-bodied and to participate in as many activities as possible.

Trio Programs

Cameron University hosts three of the original programs that were developed and funded under the Higher Education Act of 1965. 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, personal and peer counseling, free tutoring, financial assistance information, and assistance with disability accommodations to Cameron participants.

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.
- * Demonstrate **economic** need.
- * Have a documented **disability**.

Participation in Student Support Services provides personal and academic enrichment for students who may face economic, social, and cultural barriers to higher education.

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 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 tutoring and counseling for low-income, disadvantaged Lawton Public School high school students who wish to consider postsecondary education.

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 assists students in improving skills of comprehension, vocabulary, study skills and reading rate. A service of the Department of Education and Psychology, the Reading Center is staffed by specialists who are experienced in diagnosing and eliminating reading and study problems. A student visiting the Reading Center is tested to determine the materials best suited to the identified problems, then given a program of individualized instruction designed to strengthen reading and/or study skills.

The Foreign Language/ESL Laboratory. The Foreign Language/ESL Laboratory is located on the second floor of Nance Boyer Hall in Room 2005. The laboratory has a control room, twelve student listening/respond/record stations, four video stations, two computer stations, and a recording studio; and is staffed by a full-time lab director. Although the laboratory is primarily for the use of students enrolled in foreign language and ESL classes, other students may also use the tape and record programs available in more than twenty foreign languages.

Fine Arts Laboratory. The Fine Arts Laboratory is located in Rooms 139 and 140 of the Music Building. The lab consists of a listening library and an Apple/Macintosh computer laboratory. Cameron University Library's collection of recordings and musical scores is housed here, and the lab contains 25 stations available for listening. Seventeen of these carrels can be used for individual listenings and/or recordings. The remainder of this facility is devoted to seventeen computer work stations and various peripherals.

Resources of the Fine Arts Lab are available to all students, faculty, and staff on a first-come, first-served, basis. However, all users must be able to justify their use of the lab (e.g., enrollment in a course

requiring lab resources). Hours of operation for the Fine Arts Lab may vary from semester to semester and are posted outside the lab door.

The Physical Science Tutorial Program. The objectives of the physical science tutorial program are to (1) help students overcome background deficiencies in chemistry, (2) to help students who are having difficulty understanding and applying chemical principles, (3) to help students having difficulty with problem solving, and (4) to assist minority students who are experiencing difficulty with chemistry due to language problems. The program seeks to reach students with pre-determined needs, as well as students with less obvious needs, by rendering tutorial assistance to all who voluntarily avail themselves of the opportunity. The Physical Science Tutorial Laboratory and the tutorial instructor's office are located on the second floor of the Physical Science Building.

The Writing Center. A service of the School of Liberal Arts, the writing center is located on the second floor of Nance Boyer Hall, Northwest Wing. The writing center is open to all Cameron students, offering tutorial assistance and support services for writing assignments of all kinds. The center supports the Writing-Across-the-Curriculum program at Cameron with individual help, mini-labs on special problems in writing, and educational software of various kinds. Learning modules using audiotapes and computer software deal with such areas as word processing pre-writing, critical-thinking skills, reviews of usage, grammar, and spelling, and development of a personal style. The writing center encourages students to establish their own schedule of attendance or to use the center on a drop-in basis.

The Mathematics Tutorial Laboratory, located in Burch Hall, the Mathematics Tutorial Laboratory is available to students who are enrolled in mathematics classes and to students in other classes where mathematics is involved. The lab is staffed by a specialist in mathematics and is equipped with both scientific and statistical calculators. Participation by students is strictly voluntary and may be on an irregular, drop-in basis. Related assistance is available in the Computer Science Tutorial Laboratory.

The Accounting Tutorial Laboratory. The Accounting Laboratory is located on the first floor of the School of Business building. Although the emphasis is to aid students in the Principles of Accounting courses, the lab is open to anyone who has a problem or question in any level of accounting. The lab is staffed by a specialist in accounting and is equipped with calculators, tape recorders, video cassettes and programmed learning materials. The emphasis is on individual assistance, but special review sessions and other group activities are 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 Computer Science Tutorial Laboratory. A tutorial service for computer science students is available in the computer laboratory in Burch Hall. Students who require only the answer to a very specific question are assisted by the tutorial assistants in the laboratory. Students in need of more extensive assistance will be referred by the tutorial assistant to the faculty member in charge of the tutorial service or to the professor in charge of the course. Microcomputers and software are available in the laboratory for tutorial assistance in various mathematical topics.

The Academic Computer Laboratory (ACL). The Academic Computer Laboratory, 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 ACL is generally open 90 hours per week during the fall and spring semesters, and 79 hours during the summer semester.

Library

Cameron University library is a modern facility that provides an attractive academic environment to students and faculty. The library's collection contains 231,986 volumes of printed materials, 430,689 units of

microform, 5,023 titles of non-print media and over 4,070 periodical titles. Open shelves provide easy access to these materials and qualified librarians provide assistance and library instruction programs.

Advanced methods of access to materials are maintained through various indexing, abstracting and citation services. The library cooperates with over 22,000 libraries to offer access to thirty-three million documents through the AMIGOS Bibliographic Council and the Online Computer Library Center. Most of these documents are available to students and faculty through a computerized interlibrary loan system.

The library offers an online computerized approach to bibliographic information. Information about materials maintained in the library may be accessed either by computer terminals located in the library or by remote terminals on campus and in Duncan and Altus, Oklahoma. Information about periodical articles is available through CD-ROM computer workstations located in the library. A fiber optic network allows student access to Internet, E-mail and word processing within the library.

The library provides services 51 weeks each calendar year and is open 78.5 hours each week during the academic year.

Research

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. Research helps support the teaching mission at Cameron University.

As a part of the research support system, Cameron has established the Cameron Research Fund to promote scholarship. The Research Fund provides grants to students, faculty, and staff for research and innovative instruction initiatives. Cameron also maintains the Academic Research Support Center which is available to students and faculty interested in pursuing special research and scholarship projects. The Academic Research Support Center is equipped with personal computers and peripherals that interface with the mainframe computer system and other network systems. Staff members are available to provide assistance in the use of statistical, graphics, database, spreadsheet, optical scan, mark sense scanning, and communication link software and hardware.

Honor Societies

Cameron University currently has sixteen 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, 581-2272.

Student Activities

Cameron University recognizes the importance of extracurricular activities and the role they play in the college experience. The Office of Student Activities and Organizations strives to provide a variety of activities.

Cameron recognizes over 50 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 a group or in starting a new 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 and Activities Council, and the Student Government Association. The Director of Student Activities and Organizations and the Office of Student Activities is also located in the building. There are rooms available for guest speakers, club meetings, study groups and other student activities on a first come first serve basis. If special assistance is required while in the Student Activities Building, call 581-2217.

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.

Cameron Fitness Center is a 40,000 sq. ft. facility which has a gym for basketball and volleyball, four racquetball courts, Nautilus and free weights, aerobic activity machines, running track, and a 25 yard indoor swimming pool. All areas are handicap accessible.

Programming and Activities Council

The mission of the Programming and 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. If special assistance is required for PAC events, call 581-2217, 72 hours prior to the event.

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 and Organizations 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 Fine 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 Departments of Music and Theatre Arts also co-produce annual operas and musicals. Plays are offered yearly in Cameron's two theatres.

The Office of Student Activities and Organizations 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 Athletic 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.

Included in the present program are sports of men's and women's basketball, baseball, golf, women's volleyball, men's and women's tennis and softball. Scholarships are available in each of these sports. Information can be obtained by writing to the Athletic Director, who will forward inquiries to the appropriate head coach.

Intramurals

Cameron University, through its Health and Physical Education Department, offers an extensive intramural program. Activities include basketball, flag football, softball, badminton, tennis, bowling, volleyball, and archery. During the year, other sports may be offered depending upon student demand and availability of facilities and supervisory help.

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. Totalling 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 Magazine

The Wichita, published twice a year, is a permanent record of activities involving the student body, clubs and organizations, athletics, faculty and staff. It is entirely student-produced and offers staff members an opportunity to learn about advertising, reporting, layout and design, and photography. Any student may work on the magazine by enrolling in JOURN 3122, Yearbook and Magazine Production, and JOURN 3131, Yearbook and Magazine Lab, or by applying for a position. Some paid and scholarship positions are available.

The University Newspaper

The Cameron Collegian, an official publication of the University, is published by members of the staff, with the assistance of students in newswriting and photography classes. The paper serves the function of reporting news at Cameron University and providing training in journalism. Any student may work on the newspaper by enrolling in JOURN 3233, Newspaper Production Lab, or by applying for a position. Some paid positions are available.

Cameron Forum

The Cameron Forum, an annual campus literary magazine, is published under the joint sponsorship of the School of Liberal Arts, and the School of Fine Arts. Students and faculty who are talented in writing, photography, or art may contribute essays, poetry, short stories, scholarly articles, sketches, drawings, and photographs to this magazine which began publication in 1978.

Quivira

Quivira, the journal of the Cameron University Honor Societies and the Honors Program, publishes outstanding student scholarship from the honors courses and outstanding work presented at scholarly conferences by Cameron students. *Quivira* also documents the activities of honor societies and publishes interviews with visiting speakers and figures important in regional history.

KCCU Radio

KCCU FM is the National Public Radio voice of Cameron University. The station operates on 89.3 mhz in the Lawton and Duncan area. A series of translators provide public radio service to large section of southwest Oklahoma and north Texas. The station programs NRP news, local news, local sports, classical, jazz and easy listening musical programming. KCCU is operated by a professional staff with the assistance of students enrolled in communications courses. Students may work at the station by enrolling in various communications courses or by volunteering. Some paid positions are available.

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 Communications Department produces a weekly news program featuring campus events. Communications students also produce a weekly student government report, a news brief and a feature program focusing on major campus events and campus leaders.

Cameron Student Policies Handbook

The Cameron Student Policies 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 Students.

Student Conduct

Rules and regulations for the conduct of students attending Cameron University are listed in several official University publications. A primary purpose of these regulations is to help maintain both a safe and 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 board. When a student is suspended or dismissed for disciplinary reasons, this fact shall be recorded on the student's records. 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 Policies 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. Directory information may be released by authorized University officials to competent interested persons without the consent of the student. This information consists of:

Name	Degrees and awards received
Address	Dates of attendance
Current telephone number	Date of graduation
Current enrollment status	Date of birth
Athletic program information	Place of birth

Previous institution most recently attended and other similar information as permitted in the Family Education Rights and Privacy Act (Pub. L. 93-568, Sec. 99.3).

A student may restrict the release of all or part of the Directory Information by requesting restrictions with the Office of Admissions.

Personally Identifiable Information. All other information contained in student records and not listed as directory information falls into the second, or restricted category. This type of restricted information is found mainly in

- (1) the academic record maintained by the Office of the Registrar and controlled by the Registrar;
- (2) the personal record kept in the Office of the Dean of Students, under the jurisdiction of the Dean of Students; and
- (3) the records of the various other University offices of Financial Assistance, Placement, Public Safety and Residence Life, supervised by their respective directors.

To protect the right of the student or graduate, it shall be the policy of the University to release this restricted information to other persons or agencies, only as provided under section 99.31 or with the approval of the student or graduate or upon subpoena.

Emergency situations may develop which could necessitate the release of restricted information without the approval of the student or proper legal action. In these emergency situations, where the immediate welfare of the student or the University may be in jeopardy, the administrative official in charge of the office maintaining the requested information will make the decision regarding the release of the information. In cases where the responsible administrator is not available to make the decision, or, if he or she decides not to release the information, an appeal to secure the information may be made to the University President.

Student Union and Post Office

The facilities of the Clarence L. Davis Memorial Student Union are open to Cameron University students, faculty, staff and guests. During the week there is an attended game room featuring pool, Foosball, ping pong and various arcade games. All of these facilities are available for student and organization use with prior approval.

The Cameron University Post Office is located in the Davis Memorial Student Union inside the bookstore with operating hours from 8:00 a.m. to 4:15 p.m., Monday through Thursday and 8:00 a.m. through 2:30 p.m., Friday.

Campus Dining

Dining facilities are located in the Student Union and Shepler Center. The union has a grill, a Pizza Hut pizza franchise, and numerous snack items. Shepler Center has a grill, a student cafeteria, and a staff and faculty cafeteria. The student cafeteria is open to all students for breakfast, lunch, and dinner.

Bookstore

The recently remodeled Cameron Bookstore is located in the Clarence L. Davis Memorial Student Union. Students may purchase course books and study guides needed for class in the self-serve text area.

In addition to textbooks, the Bookstore carries a wide selection of imprinted clothing and gift ware, class rings, school supplies and materials, educationally priced software, study aides, electronic equipment, CD's and cassettes, and candy. Students will also find a selection of general reading material. Special orders may be placed for books and other materials. Caps, gowns and tassels, as well as graduation announcements are available in the Bookstore.

The main Buy Back is conducted at the end of each semester, during finals. It is at this time that the student may sell his books for up to half price; if the text is in current edition, to be used again the next semester and additional quantity is needed in the Bookstore. Books may be sold year round for the current wholesale value. Identification is required in order to sell books back.

Textbook purchases will be fully refunded within 15 calendar days from the start of classes or within 2 days if purchased thereafter. During 8 week classes and summer terms, refunds will be given within 10 calendar days from the start of classes or within 2 days if purchased thereafter. For workshops and interim sessions, refunds will be given until close of business on the first day of class. Within these time periods, new textbooks are fully refundable when returned in the same condition as purchased. Any book purchased during the last week of classes or during exams is not fully refundable, but may be sold back at the end of the term during book buyback. The sales receipt must be presented in order to return textbooks for a full refund.

Health/Insurance Services

Because of its proximity to the Comanche County Memorial Hospital, Cameron provides no on-campus medical services, but has chosen to contract with Memorial Hospital to secure access for Cameron students to top quality outpatient clinical services at discounted prices. Cameron encourages students to use Memorial's 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. More information on access to medical services is available from the Dean of Students or the Office of Public Safety.

Insurance Plan for Students — The University recommends that all students acquire some form of health insurance to meet unexpected medical needs. A specific policy, oriented to the needs of college students and their dependents/spouses, is available at discount rates. Questions regarding student health insurance may be directed to the Dean of Students.

R.O.T.C. Medical Eligibility — Satisfactory completion of a physical examination is required prior to participation in the advanced Military Science Program.

Job Placement Services

This service assists students and alumni in obtaining employment after graduation. The staff provides professional assistance to students seeking objective and accurate information related to career planning and employment. An on-campus interview program is designed to bring together representatives from business, governmental agencies, industry, and educational institutions. Other related services include teaching students to develop a professional resume and cover letter. Information on successful interviewing techniques is also available through this office. Some off-campus part-time jobs, full-time jobs, and internships are also posted in the office. *For assistance go to the Office of Student Development, North Shepler, Cameron University.*

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, quarterly newsletters, a benefit golf tournament to support scholarships and various other campus activities, and a membership drive.

Membership is open to anyone interested in supporting the Association. Annual membership is: one year - \$20.00; two years - \$36.00; three years - \$54.00. Life membership is \$200.00.

Further information may be obtained by contacting the Cameron University Alumni Association, Office of Alumni Relations, 2800 West Gore Boulevard, Lawton, Oklahoma 73505 or by telephone at 405-581-2988.

GENERAL EDUCATION REQUIREMENTS

BACCALAUREATE DEGREE (50 Hours)

COMMUNICATIONS9 hours

(a) ENGL 1113 (b) ENGL 1213 (c) COMM 1113

NOTE: English courses numbered lower than 1113 do not apply toward degree requirements.

MATHEMATICS3 hours

Selected from any Mathematics course numbered 1513 or above, except MATH 3353, 3363, 3373, and 3383. 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.

SCIENCE8-10 hours

Must include one course in Biological Science (Biology, Botany or Zoology) and one course in Physical Science (Astronomy, Chemistry, Earth Science, Geology, Physical Science, or Physics).

One course must be a laboratory science.

AMERICAN HISTORY AND POLITICAL SCIENCE6 hours

(a) HIST 1483 or HIST 1493 (b) POL SC 1113

HUMANITIES6 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, FINE ARTS 1013

(d) ENGL 2013, ENGL 2053, ENGL 2543, ENGL 2653, ENGL 2713, ENGL 2723, ENGL 2773, ENGL 2883 (ENGL 2000 level)

(e) (French, German, Italian, Latin, or Spanish) 1113, 1223, 2113, 2123, 2223, or equivalent

(f) HIST 1113, HIST 1123, HIST 2143, HIST 3353

(g) MUSIC 1013, MUSIC 1023, MUSIC 1413

(h) PHIL 1113, PHIL 2213

BEHAVIORAL SCIENCE3 hours

Select one from the following: FAM SC 1123, PSYCH 1113, SOCI 1113

ECONOMICS3 hours

Select one from the following: AGRIC 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: MIL SC 1062, MIL SC 1072, MIL SC 2012, MIL SC 2042, MIL SC 3013, MIL SC 3023, MIL SC 4013, MIL SC 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 of Applied Science Degree from Cameron University (30 hours for Nursing). Associate in Science Degree requires thirty-seven (37) in general education requirements. Students should consult the specific general education and degree requirements for their chosen major in ascertaining the courses which they take to satisfy these requirements.

SCHOOL OF GRADUATE AND PROFESSIONAL STUDIES

David L. Carl, Dean
Professor of Education

ASSOCIATE DEANS

Judy Neale, Graduate Coordinator - Master of Arts in Teaching
Jack Amyx, Graduate Coordinator - Master of Business Administration
John Moseley, Graduate Coordinator - Master of Education
Wade Harrison, Graduate Coordinator - Master of Science in Behavioral Sciences

DEPARTMENT OF BUSINESS
Wanda Stevens, Interim Chair

DEPARTMENT OF EDUCATION
Jane Morse, Chair and Director of Teacher Education

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION
David Cameron, Chair

DEPARTMENT OF PSYCHOLOGY AND HUMAN ECOLOGY
Lawrence Weinstein, Chair

The mission of the School of Graduate and Professional Studies is to offer undergraduate and graduate level educational opportunities to degree seeking students and life-long learners. The School provides undergraduate coursework in the fields of Business, Education, Health and Physical Education, and Psychology and Human Ecology. These primary areas of study encompass several specialities. In addition to supporting general education preparation and undergraduate degrees, the School provides graduate degrees in Business, Education, and Behavioral Sciences. Several disciplines blend academics with field based and practica 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.

DEPARTMENT OF BUSINESS

INTERIM CHAIR - Wanda Stevens, Associate Professor

Professors: Amyx, Chester, Courington, Horner, Martinez

Associate Professors: Bhattacharya, Brooks, Krishnan, Miller, Ramsey, Stevens, Sukar, Zoubi

Assistant Professors: Clinton, Jeter, Michener, Stafford, Yuyenyongwatana

Instructor: Gooch

Director of Business Research Center: Krishnan

Accounting Lab Instructor:

Business Counselor: Flowers

The Department of Business offers programs leading to the Bachelor of Accounting degree and the Bachelor of Business Administration degree with a specialization in one of the following: Management, Marketing, Business Systems, Finance, Economics, and General Business Administration. Academic advisement is provided by the faculty; enrollment is provided by the Student Support Office in the department. The department also offers a Master of Business Administration degree. Refer to Graduate Catalog for details.

BACHELOR OF ACCOUNTING DEGREE (305)

- I. GENERAL EDUCATION REQUIREMENTS50 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 Department of Business.

- II. MAJOR-MINOR57 hours

Core Courses33 hours

CIS 1013, ACCTG 2013, ACCTG 2023, ECON 2023, BUS 2113, MGMT 3013,
BUS 3213, MKTG 3413, FIN 3603, BUS 3613, BUS 4633

Specialization (Upper Division Accounting)24 hours

ACCTG 3013, ACCTG 3023, ACCTG 3133, ACCTG 4013, ACCTG 4213,
ACCTG 4513

Upper-Division Accounting Electives6 hours

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

ACCOUNTING COURSES (ACCTG)

2013* PRINCIPLES OF ACCOUNTING I, 3 hours credit

Basic principles of accounting, including use of journals, ledgers, controlling accounts, work sheets, and financial statements. Lecture 3 hours. Prerequisite: Sophomore standing or by consent of advisor.

2023* PRINCIPLES OF ACCOUNTING II, 3 hours credit

Continuation of theory presented in Principles of Accounting 2013, with special emphasis on partnerships, corporations, bonds, sinking funds, reserve depreciation and problems of valuation. Lecture 3 hours, Prerequisite: ACCTG 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: ACCTG 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: ACCTG 3013.

3133 COST ACCOUNTING, 3 hours credit

An introduction to the basic principles and analytical process of cost accounting. The areas discussed include departmentalization, expense allocation, process and job-lot costing, distribution costs, profit-volume relationships and direct costing. Lecture 3 hours. Prerequisite: ACCTG 2023.

3213 MANAGERIAL ACCOUNTING, 3 hours credit

The analysis and interpretation of accounting information for managerial decision making, forecasting, and control. Designed for non-accounting majors. No credit for accounting majors. Lecture 3 hours. Prerequisite: ACCTG 2023.

3313 GOVERNMENTAL ACCOUNTING, 3 hours credit

Characteristics of governmental organizations at various levels, including federal, municipal, and other public entities. Budgetary accounts, fund concepts, financial reports, types of funds, and new concepts in reporting are included. Lecture 3 hours. Prerequisite: ACCTG 2023.

3413 PETROLEUM ACCOUNTING, 3 hours credit

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

4013 INCOME TAX ACCOUNTING, 3 hours credit

Consideration of present income tax laws, tax problems, preparation of tax returns for individuals. Lecture 3 hours. Prerequisite: 12 hours of Accounting.

4023^{6A} CORPORATE INCOME TAX, 3 hours credit

A study of current laws and practice as they relate to Income Tax for Partnerships, Corporations, including Subchapter "S" entities. Gift and Estate tax law and practice will also be explored. Lecture 3 hours. Prerequisite: Income Tax Accounting.

4113^{6A} ADVANCED ACCOUNTING THEORY, 3 hours credit

A comprehensive study of partnership accounting, trustee accounting, and consolidated statements. Lecture 3 hours. Prerequisite: ACCTG 3023.

4213^{6A} AUDITING, 3 hours credit

Auditing theory, auditing procedures and techniques. Lecture 3 hours. Prerequisite: 18 hours of Accounting.

4413^{6A} 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 ACCTG 4113.

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

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

4491-3 INDEPENDENT STUDY IN ACCOUNTING, 1-3 hours credit

Independent readings and/or study of specific problems or special subjects in Accounting based upon pre-approved outlines of plans with conferences and/or written reports. Prerequisites: Permission of the Chair and 9 upper division hours in Accounting. A proposal must accompany the request when submitted for approval.

4513 ACCOUNTING INFORMATION SYSTEMS, 3 hours credit

A computerized accounting systems course designed to include projects which require the completion of source documents, preparation of journal entries, posting entries, and preparing ledgers, trial balances, and financial statements by both manual and computerized methods using accounting software. Lecture 3 hours. Prerequisite: ACCTG 3013.

* Liberal arts and sciences course.
GR May be taken for graduate credit.

BACHELOR OF BUSINESS ADMINISTRATION (320)

I. GENERAL EDUCATION REQUIREMENTS50 hours

General Education requirements are found on the red striped pages.
Students are encouraged to select their elective hours in general education from courses outside the Department of Business.

II. MAJOR-MINOR54 hours

Core Courses33 hours

CIS 1013, ACCTG 2013, ACCTG 2023, ECON 2023, BUS 2113, MGMT 3013,
BUS 3213, MKTG 3413, FIN 3603, BUS 3613, BUS 4633

Specialization21 hours

Individuals who major in Business Administration must complete one of the following controlled areas of Specialization.

Management: ACCTG 3213, MGMT 3513, MGMT 3613, MGMT 4023 or MGMT 4033, Upper-Division Management (6 hours), Upper-Division Elective (3 hours) selected from the following: SOCI 3383, MATH 4113, COMM 3313, COMM 3353, COMM 3383, COMM 3393, CIS 4013, CIS 4023

Marketing: MKTG 3423, MKTG 4443, Upper Division Marketing Electives (12 hours), Upper Division Business Electives (3 hours)

Business Systems: BS 2113, BS 3013, BS 3123, BS 4013, Electives chosen from any upper division Business School courses, COMM 3013, COMM 3023, COMM 3103, COMM 3113, COMM 3313, COMM 3353, COMM 3383, COMM 3393, COMM 3523, COMM 3633, CIS 2033, CIS 3023, CIS 3083, CIS 4013, CIS 4023, DATA P 1023, DATA P 1063, DATA P 1083.

Finance: FIN 3313, FIN 3623, FIN 4333 (9 hours); Upper Division Finance Electives (9 hours) chosen from FIN 4473-Seminar: Portfolio I, FIN 4473, Seminar: Portfolio II, FIN 4473-Seminar: International Finance, ACCT 3213, ECON 3013, ECON 3023; Lower Division Finance Electives (3 hours) chosen from FIN 2643, FIN 2813, FIN 2113.

Economics: ECON 3013, ECON 3023, ECON 3313

Upper-Division Economics (6 hours)

Upper-Division Electives (6 hours)

Chosen from any Psychology, Mathematics, Social Science, Technology, and/or Business Department courses, except for those courses prefixed Business Systems

General Business Administration: ACCTG 3213, MGMT 3513, Upper-Division Electives (15 hours) chosen from any Business Department courses, with no more than 6 hours from any one area.**III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.****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. No credit for juniors and seniors who are business administration or accounting majors. Lecture 3 hours.

2113* BUSINESS COMMUNICATIONS, 3 hours credit

Essential qualities of business writing; managerial approach in writing a variety of letter types; relationship of structure and layout to effective business writing. Lecture 3 hours. Prerequisite: ENGL 1113 or the equivalent. Recommended Prerequisite: Ability to keyboard.

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 Chair.

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 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 Chair; permission of Chair if taken for no credit.

4023^{ca} 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, queueing theory, game theory, PERT analysis, Markov analysis, and inventory models. Lecture 3 hours. Prerequisite: BUS 3613.

4213^{ca} 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 Chair.

4491-3 INDEPENDENT STUDY IN BUSINESS, 1-3 hours credit

Independent readings and/or study of specific problems or special subjects, based on preapproved 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 earlier studies in business administration into a viable, realistic approach to business problems. Emphasis is on comprehensive case studies and simulation gaming as students participate in applying principles, practices and techniques to complex problems at the executive level. Lecture 3 hours. Prerequisites: FIN 3603 and graduating senior status, or permission of Chair.

BUSINESS SYSTEMS COURSES (BS)**2113 INFORMATION PROCESSING I, 3 hours credit**

Study of system software. Hands-on use of word processing and spreadsheet software on microcomputers to enhance business productivity. Lecture 3 hours. Recommended Prerequisite: Ability to keyboard.

3013 ADMINISTRATIVE SYSTEMS PROCEDURES, 3 hours credit

Application of administrative systems technology to facilitate information flow. Includes study of records cycle, communications technology, and computer applications. Lecture 3 hours. Prerequisite: BS 2113.

3123 INFORMATION PROCESSING II, 3 hours credit

Development of business productivity tools through hands-on use of spreadsheet software with macros, word processing, and introduction to database. Lecture 3 hours. Prerequisite: BS 2113.

4013 ADMINISTRATIVE SYSTEMS MANAGEMENT, 3 hours credit

Planning, organizing, directing, and controlling administrative systems. Includes study of ergonomics, facilities management, and current issues in administrative systems. Lecture 3 hours. Prerequisite: Junior standing or departmental permission.

4471-3 SEMINAR IN BUSINESS SYSTEMS, 1-3 hours credit

Study of specified topics in Business Systems. Can be repeated for maximum of nine (9) hours credit under different topic titles. Prerequisite: Permission of Chair.

4491-3 INDEPENDENT STUDY IN BUSINESS SYSTEMS, 1-3 hours credit

Independent study of specified topics in Business Systems for undergraduate students based upon pre-approved outlines or plans. Prerequisites: Six upper division hours in Business Systems and permission of the Chair. A proposal must accompany the request when submitted for approval.

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 over-all 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.)

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.

4771-3 SEMINAR IN ECONOMICS, 1-3 hours credit

Seminar presentation and special studies in Economics for undergraduate students. Prerequisite: Permission of 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.

FINANCE COURSES (FIN)

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 the 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, taxes. Professional ethics of the Real Estate Business. Forty-five hours of instruction. Lecture 3 hours. Prerequisite: ECON 2013 or permission.

2823 ADVANCED REAL ESTATE PRINCIPLES AND PRACTICES, 3 hours credit

Emphasis on practical and operational problems of the broker; transferring title, contract law, mortgage theory and current mortgage practice, property valuation, investment and taxation, agency, real estate broker practice, license law and transaction closing. Lecture 3 hours. Prerequisite: FIN 2813 or equivalent.

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 ACCTG 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 Chair.

4333^{ca} FINANCIAL MANAGEMENT, 3 hours credit

A detailed examination of financial management decision making techniques. The case study method is used with the aid of micro-computer software to cover the following topics: Cash and profit planning, asset management, capital structure, capital budgeting, and firm valuation, including mergers and acquisitions. Lecture 3 hours. Prerequisites: FIN 3603 and ACCTG 3213.

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

Seminar presentation and special studies in topics of current interest in Finance. Prerequisite: Permission of Chair.

4491-3 INDEPENDENT STUDY IN FINANCE, 1-3 hours credit

Independent study of current topics in Finance for undergraduate students. Prerequisites: Permission of Chair and 9 upper-division hours in Finance. A proposal must accompany the request when submitted for approval.

MANAGEMENT COURSES (MGMT)

2033 SMALL BUSINESS MANAGEMENT, 3 hours credit

A study of policies, practices, and procedures in small firms. The emphasis is on decision making without constraints encountered in smaller firms for more effective management. Lecture 3 hours.

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 Chair.

3213 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.

3513 PERSONNEL MANAGEMENT, 3 hours credit

A foundation course in the principles and practices of personnel management. Organization and operation of the personnel function. Consideration of key personnel problems in the area of procurement, placement, training, promotion, remuneration, and separation. Lecture 3 hours. Prerequisite: MGMT 3013 or permission of Chair.

3613^{ca} PRODUCTION MANAGEMENT, 3 hours credit

A study of the manufacturing process emphasizing the planning of production facilities, quality control systems, and production control systems. 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 Chair.

4043* HISTORY OF MANAGEMENT THOUGHT, 3 hours credit

Evolution of management thought from its earliest days to the present. The emphasis is on significant contributors to the body of management knowledge. Lecture 3 hours. Prerequisite: MGMT 3513.

4053^{ca} 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 2113.

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 Chair.

4491-4 INDEPENDENT STUDY IN MANAGEMENT, 1-4 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 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; aggregate consumer behavior over time. Lecture 3 hours. Prerequisites: MKTG 3413, Junior standing.

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: MKTG 3413 and MGMT 3013.

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 Chair.

4443^{ca} 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 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 Chair. A proposal must accompany the request when submitted for approval.

* Liberal arts and sciences course.

GR May be taken for graduate credit.

DEPARTMENT OF EDUCATION

CHAIR - Jane Morse, Associate Professor

Professors: Carl, James, K. McKellips, McMahan, Prichard

Associate Professors: Bonnington, Cates, Lanasa, Moseley, Neale, Rubin

Assistant Professors: Buckles, Burton, De Almeida, DeBerry, Harris, Marcy, Ross, Smiley

Instructors: Bellin, Blackburn, Jackson, Nelson, Woods

Lead Teacher: Cranfill

The Department of Education offers programs leading to the Bachelor of Science Degree with a major in Elementary Education and to teaching licenses in Early Childhood, Special Education, Elementary, Elementary-Secondary, and Secondary Education. The Department also offers Master of Arts in Teaching and Master of Education degrees. Refer to the Graduate Catalog for details.

TEACHER EDUCATION

Teacher Education Programs at Cameron University are accredited by the Oklahoma State Board of Education and the National Council for the Accreditation of Teacher Education (NCATE). Approved graduates will be recommended for teaching licenses in the elementary and secondary schools of Oklahoma. Cameron University also holds membership in the American Association of Colleges for Teacher Education.

TEACHER LICENSING AND CERTIFICATION

Cameron University offers programs of study which prepare students to teach at the early childhood, elementary, middle school, elementary-secondary, and secondary levels. The student who satisfactorily completes such a course of study is recommended to the State Department of Education for an Oklahoma teaching license. (Teaching licenses are issued only to those who have passed the State's tests for certification. For further information about these tests, contact the Director of Teacher Education.)

Oklahoma law provides that licensed teachers be assisted through their first year of teaching by a three-member Residency Committee. After the licensed teacher successfully completes the resident year, the Residency Committee will recommend to the State Department of Education that the licensed teacher receive an Oklahoma certificate. Further details are available in the Teacher Certification Catalog.

Besides the baccalaureate-level teacher preparation programs referred to throughout this catalog, Cameron University also offers a post-baccalaureate teacher preparation program (CAMSTEP) which leads to a Master of Arts in Teaching degree (MAT). Only K-12 and Secondary licensure programs are available through CAMSTEP, which is fully described in the Graduate Catalog.

NOTE: Rules and regulations governing teacher education established by the Oklahoma State Regents for Higher Education, Oklahoma Commission for Teacher Preparation, Oklahoma State Board of Education, and the state legislature are being modified. The programs outlined in this catalog meet current interpretation of these policies. Each student should frequently check with their advisors for up-to-date information regarding teacher education.

EARLY CHILDHOOD

Cameron offers a Teacher Education program to prepare students to teach at PK-3 level in the schools of Oklahoma. Details about this program may be found in the Teacher Certification Catalog.

Elementary

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. Also refer to the Teacher Certification Catalog.

Middle School

Cameron University offers a Teacher Education Program to prepare teachers to teach at the Middle School level in the schools of Oklahoma. Details about this program may be found in the Teacher Certification Catalog.

Secondary

Students attending Cameron University may pursue programs of study for an Oklahoma teaching license at the secondary level. A secondary license is available to Cameron students in the following areas: English, Mathematics, Science, Social Studies, and Speech/Drama. For a list of the required courses in these fields of specialization, refer to the Teacher Certification Catalog. The student should be aware that, while a degree is a requirement for a teaching credential, degree requirements and certification requirements are not necessarily identical.

In addition to the required courses in the field of specialization, the student must complete course(s) in methods of teaching and the following professional education sequence:

EDUC 3003, EDUC 3050, EDUC 3073, EDUC 3653 (R), EDUC 3673 (R), EDUC 3733, EDUC 3753 (R), EDUC 4365 (R), EDUC 4375 (R), EDUC 4533, EDUC 4672 (R), SPED 3103 (R)

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.

(R) Class restricted to students admitted to Teacher Education.

Elementary - Secondary

Students may pursue programs of study in Art, Foreign Languages, (French and Spanish), Music, Physical Education/Health, and Special Education (Learning Disabilities and Mental Retardation) which will allow them to be recommended for a teaching license for the elementary-secondary levels (K-12). For a list of the required courses in these fields of specialization refer to the Teacher Certification Catalog. The student should be aware that, while a degree is necessary for a teaching credential, degree requirements and certification requirements are not necessarily identical.

In addition to the coursework required in the area of specialization, the student must take course(s) in methods of teaching and the following sequence of professional education:

EDUC 3003, EDUC 3050, EDUC 3073, EDUC 3653 (R), EDUC 3673 (R), EDUC 3733, EDUC 3753 (R), EDUC 4355 (R), EDUC 4385 (R), EDUC 4533*, EDUC 4672 (R), SPED 3103 (R)

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.

* For some majors, departmental offerings fulfill this requirement. Consult with your major department or see the Teacher Certification Catalog.

(R) Class restricted to students admitted to Teacher Education.

**Conversion Endorsements and
Special Endorsements**

The University provides programs which allow licensed or certified teachers to teach in additional fields. For complete details about Conversion Endorsements and Special Endorsements, see the Teacher Certification Catalog.

Provisional Certification

A person who completes a bachelor's degree and a prescribed course of study in the area of specialization and in professional education may be recommended for provisional certification. The Provisional Level I is a one-year credential; Level II allows an individual to teach for two years. Complete details are contained in the Teacher Certification Catalog.

Admission to Teacher Education

Admission to teacher education is achieved through a formal process which is described in the Teacher Certification Catalog.

NOTE: Complete information about Cameron University's teacher preparation programs is provided in The Teacher Certification Catalog. Copies may be obtained from your major department or from the Director of Teacher Education.

**BACHELOR OF SCIENCE DEGREE
MAJOR IN ELEMENTARY EDUCATION (350)**

I. GENERAL EDUCATION REQUIREMENTS50 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.

For certification purposes, Elementary Education majors should:

- (a) choose a geography course to fulfill Social Science requirements
- (b) choose HLTH 1012 as 2 hours of the Physical Education requirement
- (c) take PSYCH 1113 as a prerequisite to EDUC 3733
- (d) Elementary 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.

II. MAJOR41 hours

Required Courses

EDUC 3033, MATH 3353 or elective, MATH 3363 or elective, MATH 1513 or above, LIB SC 3423, EDUC 3513, EDUC 3533, EDUC 4423, EDUC 4443, EDUC 4463, EDUC 4483, EDUC 4553, FA 3003, LANG elective or Successful Proficiency Test.

III. ENDORSEMENTS (Optional)18 hours
Students who wish to teach in a middle school should complete 18 hours in an approved content area. Consult Teacher Certification Catalog for further details.

IV. PROFESSIONAL EDUCATION34 hours
EDUC 1000, EDUC 3000, EDUC 3003, EDUC 3013, SPED 3103 (R), EDUC 3733, EDUC 3753 (R), EDUC 3673 (R), EDUC 3653 (R), *EDUC 4612 (R), *EDUC 4641 (R), *EDUC 4335 (R), *EDUC 4345 (R).

* Should be taken in the professional year.

(R) Restricted to students admitted to Teacher Education.

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

VI. Students must achieve a grade of C or better in Elementary Education Major courses and the Professional Education courses, 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 or F or U is achieved, the course must be repeated. This policy will not affect Elementary Education major courses taken prior to Fall 1993 except on transfer courses which must be a C or better. No grade below C in Professional Education is accepted, regardless of when taken.

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. Consult the Teacher Certification Catalog for further details.

EARLY CHILDHOOD COURSES (ECE)

3154 METHODS AND PRACTICUM IN EARLY CHILDHOOD EDUCATION, 4 hours credit

Planning and practice in instruction and guidance of young children. Emphasis on developmental processes and motor skills. Additionally requires minimum 45 clock hours of practicum at Child Development Center arranged with Director. Lecture 3 hours.

3801-3 WORKSHOP IN EARLY CHILDHOOD EDUCATION, 1-3 hours credit

Course designed to give intensive emphasis of specific topic(s) related to early childhood education. May be repeated with different topics for a total of 3 hours. Prerequisite: Junior standing or permission of Early Childhood Education Coordinator.

3841-3 SELECTED TOPICS IN EARLY CHILDHOOD EDUCATION, 1-3 hours credit

Directed study on a special subject or problems in early childhood education. May be repeated with different topics for a total of 3 hours. Prerequisite: Junior standing or permission of Early Childhood Education Coordinator.

4142 METHODS AND PRACTICUM IN CREATIVE ARTS, 2 hours credit

Focuses on designing and delivering creative experiences in language, art, and music for the young child. Additionally requires minimum 45 clock hours of practicum at the Child Development Center arranged with Director. Concurrent enrollment in ECE 4152 required. Prerequisite: ECE 3154 recommended. Lecture 3 hours.

4152 METHODS AND PRACTICUM IN COGNITIVE DEVELOPMENT, 2 hours credit

Focuses on designing and delivering appropriate experiences in math, science, and social studies for the young child. Additionally requires minimum 45 clock hours practicum at Child Development Center arranged with Director. Concurrent enrollment in ECE 4142 required. Prerequisite: ECE 3154 recommended. Lecture 3 hours.

4403^{CR} EARLY CHILDHOOD EDUCATION, 3 hours credit

Focuses on international and interdisciplinary perspectives of child care and early childhood education. Includes historical and philosophical background of early childhood education. Needs of families and best practices for young learners are emphasized. Lecture 3 hours.

4412^{CR} CREATIVE PLAY AND PLAYGROUNDS FOR THE YOUNG CHILD, 2 hours credit

Methods of identifying attributes of play and playgrounds in terms of skill development and investigates techniques of interaction to facilitate those skills. Emphasis is placed on the knowledge and sensitivity of the teacher as one who develops an environment to promote cognitive and affective growth and psychomotor skills.

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

EDUCATION COURSES (EDUC)**0123* COLLEGE READING FUNDAMENTALS (Remedial/Developmental Course)**

Assists students in development of basic reading, vocabulary and study skills needed to attempt college study or other advanced study. Diagnostic testing provides a basis for individualized and small group activities to improve student skills **DOES NOT COUNT TOWARD GRADUATION**. May be repeated for a maximum of 6 hours credit. Lecture 2 hours, laboratory 2 hours.

0521 DEVELOPMENTAL READING LABORATORY, 1 hour credit

For students with ACT scores between 15-18 or comparable CPT placement scores. Students work on individualized programs to improve reading skills and strategies identified in testing. **DOES NOT COUNT TOWARD GRADUATION**. Concurrent enrollment in EDUC 1113 strongly recommended. Laboratory 2 hours.

1000 ELEMENTARY EDUCATION INTRODUCTORY SEMINAR

A required seminar for first semester declared elementary education majors. Provides overview of the teacher education program's conceptual framework and academic requirements (general education and major), employment opportunities (includes current supply and demand and salaries), time commitment and certification requirements.

1113 COLLEGE READING AND STUDY STRATEGIES

Prepares students for success in college with emphasis on study strategies as applied in various content areas, academic reading/thinking strategies, and an evaluation of individual strengths and weaknesses as a student. For students with ACT scores 15 and above. Lecture 3 hours.

1211 ADVANCED COLLEGE READING, 1 hour credit

Assists students in acquiring advanced reading, vocabulary or study skills which enhance academic performance. Recommended for students with ACT composite score of 22 or above, or evidence of above average academic ability. May be repeated with a different emphasis for a maximum 3 hours of credit. Variable hours of lecture or lecture/lab.

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 departmental permission. Prerequisite: As listed for each separate offering and/or departmental permission.

3000 ELEMENTARY EDUCATION ADVANCED SEMINAR

A required seminar for Elementary Education majors completing admission to the Teacher Education Program and prerequisite for the Teacher Education interview. Provides information about development of the required professional portfolio. Students will write autobiography, document previous work with children, and participate in assessment activities.

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 15 clock hours field component in the public schools. Prerequisite: Second Semester Freshman standing. Lecture 3 hours.

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.

3033 SURVEY OF ELEMENTARY METHODS AND CONTENT, 3 hours credit

Survey of general elementary methods and content; serves as a basis for specialized educational methods courses. Concentrates on planning, materials, grouping, record keeping, communications, and presentation styles used by elementary teachers. Additionally requires 8 clock hours field component in the public schools. Lecture 3 hours.

3050 SECONDARY EDUCATION TEACHING SEMINAR

A required seminar for Secondary Education students being admitted to the Teacher Education Program and a prerequisite for the Teacher Education interview. Provides information about development of the required professional portfolio, an overview of the program's conceptual framework, employment opportunities, time commitments, and certification requirements. Students will write autobiography, document previous work with children, and participate in assessment activities.

3073 SURVEY OF SECONDARY INSTRUCTIONAL STRATEGIES, 3 hours credit

Survey of general secondary teaching and learning methods as applied to varied content. Focus on planning, materials, grouping, communications, record keeping, presentation styles, learner styles and needs, and effective/reflective teaching techniques. Additionally, required field component in the public schools. Prerequisite: Departmental approval. Lecture 3 hours.

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. Prerequisite: Admission to Teacher Education. Lecture 3 hours.

3533 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. Prerequisites: EDUC 3513 and admission to Teacher Education. Lecture 3 hours.

3611 COMPUTER LITERACY FOR TEACHERS, 1 hour credit

Educational application of the non-technical and the low-technical aspects of the capabilities and limitations of micro-computers. Clarification of the necessary terminology and educational implications of the micro-computers. Prerequisite: Admission to Teacher Education.

3632 MEDIA AND TECHNOLOGY IN TEACHING, 2 hours credit

Techniques in the selection, use, and production of teaching aids; with practice in using audio-visual equipment. Prerequisite: Admission to Teacher Education.

3652 TESTS AND MEASUREMENT, 2 hours credit

Uses and construction of educational tests and measurements for the purpose of classification of students and determination of their achievements in subjects studied in public schools. Prerequisite: Admission to Teacher Education.

3653 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. Prerequisite: Admission to Teacher Education. Lecture 3 hours.

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. Prerequisite: Admission to Teacher Education.

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: PSYCH 1113.

3752* EDUCATIONAL PSYCHOLOGY, 2 hours credit

Introduction to the science of education; application of methods and results of experimental psychology to the classroom. Prerequisites: EDUC 2013, EDUC 3733, and admission to Teacher Education.

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 required 8 clock hours field component in the public schools. Prerequisites: EDUC 3733 and admission to Teacher Education. Lecture 3 hours.

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 departmental permission.

4302 FIELD EXPERIENCE WITH CHILDREN AND YOUTH, 2 hours credit

Supervised experiences in working with children and youth in school and/or approved community settings. Individual program planned to give each student experiences with culturally diverse and exceptional populations. Prerequisites: EDUC 2013, EDUC 3301, and admission to Teacher Education.

4312 FIELD EXPERIENCE WITH CHILDREN AND YOUTH, 2 hours credit

For K-12 and secondary education students. Supervised experiences in working with children and youth in school and/or approved community settings. Individual program planned to give each student experiences with culturally diverse and exceptional populations. Prerequisites: EDUC 2013, EDUC 3301, and Admission to Teacher Education.

4322 REFLECTIVE TEACHING EXPERIENCE, 2 hours credit

Practical laboratory teaching experiences with engagement in the total act of teaching. Students plan, execute, evaluate, and reflect on the teaching process. Course will concentrate on the Oklahoma Minimum Criteria for Effective Teaching. Prerequisites: Admission to Teacher Education.

4335 DIRECTED OBSERVATION AND INTERNSHIP IN PRIMARY GRADES, 5 hours credit

For Elementary Education majors. Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a University selected primary grades classroom teacher. Prerequisite: Admission to Professional Year.

4336 DIRECTED OBSERVATION AND STUDENT TEACHING IN PRIMARY GRADES, 6 hours credit

(For Elementary Education majors. Those enrolling in this course must concurrently enroll in EDUC 4346). Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a selected primary grades classroom teacher. Prerequisite: Admission to Professional Semester.

4345 DIRECTED OBSERVATION AND INTERNSHIP IN INTERMEDIATE/MIDDLE SCHOOL GRADES, 5 hours credit

For Elementary Education majors. Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a University selected intermediate grades classroom teacher. Prerequisite: Admission to Professional Year.

4346 DIRECTED OBSERVATION AND STUDENT TEACHING IN THE INTERMEDIATE GRADES, 6 hours credit

(For Elementary Education majors. Those enrolling in this course must concurrently enroll in EDUC 4336). Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a selected intermediate grades classroom teacher. Prerequisite: Admission to Professional Semester.

4355 DIRECTED OBSERVATION AND INTERNSHIP IN THE ELEMENTARY SCHOOL, 5 hours credit

(For students who are seeking teaching licensure in Special Education, Foreign Languages, Art, Music, or Health and Physical Education. Those enrolling in this course must concurrently enroll in EDUC 4385.) Observation, participation and teaching, and the directing of extra-class activities under the guidance of a University selected elementary classroom teacher. Prerequisite: Admission to Professional Semester.

4356 DIRECTED OBSERVATION AND STUDENT TEACHING IN THE ELEMENTARY SCHOOL, 6 hours credit

(For students who are seeking Teaching licenses in Special Education, Foreign Languages, Art, Music, or Health and Physical Education. Those enrolling in this course must concurrently enroll in EDUC 4386). Observation, participation and teaching, under the guidance of selected elementary classroom teacher. Prerequisite: Admission to Professional Semester.

4365 DIRECTED OBSERVATION AND INTERNSHIP IN THE JUNIOR HIGH SCHOOL, 5 hours credit

(For Secondary Education students. Those enrolling in this course must concurrently enroll in EDUC 4375.) Observation, participation and teaching, and the directing of extra-class activities under the guidance of a University selected junior high school classroom teacher. Prerequisite: Admission to Professional Semester.

4366 DIRECTED OBSERVATION AND STUDENT TEACHING IN THE JUNIOR HIGH SCHOOL, 6 hours credit

(For Secondary Education students. Those enrolling in this course must concurrently enroll in EDUC 4376). Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a selected junior high school classroom teacher. Prerequisite: Admission to Professional Semester.

4375 DIRECTED OBSERVATION AND INTERNSHIP IN THE SENIOR HIGH SCHOOL, 5 hours credit

(For Secondary Education students. Those enrolling in this course must concurrently enroll in EDUC 4365). Observation, participation and teaching, and the directing of extra-class activities under the guidance of a University selected senior high school classroom teacher. Prerequisite: Admission to Professional Semester.

4376 DIRECTED OBSERVATION AND STUDENT TEACHING IN SENIOR HIGH SCHOOL, 6 hours credit

(For Secondary Education students. Those enrolling in this course must concurrently enroll in EDUC 4366). Observation, participation and teaching and the direction of extra-class activities under the guidance of selected senior high classroom teacher. Prerequisite: Admission to the Professional Semester.

4385 DIRECTED OBSERVATION AND INTERNSHIP IN THE SECONDARY SCHOOL, 5 hours credit

(For students who are seeking teaching licensure in Special Education, Foreign Languages, Art, Music, or Health and Physical Education. Those enrolling in this course must concurrently enroll in EDUC 4355.) Observation, participation and teaching, and the directing of extra-class activities under the guidance of a University selected secondary classroom teacher. Prerequisite: Admission to Professional Semester.

4386 DIRECTED OBSERVATION AND STUDENT TEACHING IN THE SECONDARY SCHOOL, 6 hours credit

(For students who are seeking teaching licenses in Special Education, Foreign Languages, Art, Music, or Health and Physical Education. Those students enrolling in this course must concurrently enroll in the EDUC 4356). Observation, participation and teaching, and the directing of extra-class group activities under the guidance of a selected secondary classroom teacher. Prerequisite: Admission to Professional Semester.

4423 LANGUAGE ARTS METHODS AND PRACTICUM, 3 hours credit

An elementary methods course emphasizing language arts integrated with primary social studies concepts. Focus on listening, speaking, writing, and reading with primary grade applications. Additionally requires practicum two days a week in the public schools. Prerequisite: Admission to Professional Year. Lecture 3 hours.

4443 SOCIAL STUDIES METHODS AND PRACTICUM, 3 hours credit

An elementary methods course emphasizing social studies integrated with intermediate/middle school language arts concepts. Focus on history, geography, economics, sociology, anthropology, and civics with intermediate/middle school applications. Additionally requires practicum two days a week in the public schools. Prerequisite: Admission to Professional Year. Lecture 3 hours.

4463 MATHEMATICS METHODS AND PRACTICUM, 3 hours credit

An elementary methods course emphasizing mathematics integrated with primary science concepts. Focus on arithmetic and mathematical processes with primary grade applications. Additionally requires practicum two days a week in the public schools. Prerequisite: Admission to Professional Year. Lecture 3 hours.

4483 SCIENCE METHODS AND PRACTICUM, 3 hours credit

An elementary methods course emphasizing science integrated with intermediate/middle school math concepts. Focus on physical, life, and earth disciplines of science with intermediate/middle school applications. Additionally requires practicum two days a week in the public schools. Prerequisite: Admission to Professional Year. Lecture 3 hours.

4533^{ca} READING IN THE CONTENT AREA, 3 hours credit

Theories and practices of reading instruction for middle school and secondary teachers. Assists teachers in the development of instructional strategies to facilitate student understanding of written materials.

4553^{ca} DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES, 3 hours credit

A study of reading difficulties and techniques of remediation of such difficulties. Additionally requires 8 clock hours supervised field component with a child with reading problems. Prerequisite: EDUC 3533. Lecture 3 hours.

4612 SENIOR SEMINAR I, 2 hours credit

Capstone Experience focusing on classroom management, creative positive learning environments, reflective teaching, and professional interaction in the school environment with faculty and staff, parents, and community members. Prerequisite: Admission to Professional Year.

4621 METHODS OF CLASSROOM MANAGEMENT AND PARENT-SCHOOL RELATIONS, 1 hour credit

Techniques for arranging and structuring the classroom environment to maximize learning. Techniques for developing effective communication with parents during scheduled and unscheduled conferences. Implications of legal aspects of teaching and cultural pluralism are included. Prerequisite: Admission to Professional Semester.

4641 SENIOR SEMINAR II, 1 hour credit

Continuation of Capstone Experience during second internship semester. Completed portfolio will be required. Prerequisites: EDUC 4612 and Admission to Professional Year.

4672 SECONDARY PROFESSIONAL EDUCATION SEMINAR, 2 hours credit

Secondary Education Capstone Experience focusing on classroom management, positive learning environments, reflective teaching, and professional interaction in the school environment with faculty and staff, parents, and community members. Includes portfolio evaluation. Prerequisite: Admission to Professional Semester.

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 2013. May be repeated with departmental approval.

4891-3^{ca} 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 departmental permission.

LIBRARY SCIENCE COURSES (LIB SC)**3113 MATERIALS SELECTION, 3 hours credit**

Methods of selecting and acquiring books, pamphlets, and audiovisual materials for the library through publishers and other sources; use of tools and aids. Lecture 3 hours.

3123 SCHOOL LIBRARIES, 3 hours credit

Organization, administration, and planning of elementary and secondary school library media programs. Lecture 3 hours.

3223 REFERENCE MATERIALS, 3 hours credit

Selection, evaluation, and use of basic reference materials; interpretation of reference questions; library reference work. Lecture 3 hours.

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.

4013 ORGANIZATION OF LIBRARY MATERIALS, 3 hours credit

Introduction to descriptive and subject cataloging, filing rules, Dewey and Library of Congress classification schemes, automated cataloging procedures, and production of card sets. Emphasis on interpreting catalog entries to be found in general libraries. Lecture 3 hours.

4041-4 SEMINAR IN LIBRARY SCIENCE, 1-4 hours credit

Special topics in library science. Lecture 1 to 4 hours. Prerequisite: Minimum of 3 hours in library science or permission of the instructor.

4313* YOUNG ADULT LITERATURE, 3 hours credit

Survey of adolescent reading patterns, methods of selection and presentation of literature in all media, reading guidance and stimulation of young people.

SPECIAL EDUCATION COURSES (SPED)**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. Prerequisites: Admission to Teacher Education, EDUC 3033, and EDUC 3733, or departmental permission. Lecture 3 hours.

3123^{ca} 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). Prerequisite: SPED 3103.

3133^{ca} 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.

3143^{ca} INTRODUCTION TO SPEECH, HEARING, AND LANGUAGE DISORDERS, 3 hours credit

Introduces techniques for identifying and remediating speech, hearing, and language disorders (ages 0-21). Emphasizes the role of both the classroom teacher and the special educator in the identification and remediation processes. Prerequisite: SPED 3103.

3603 INTRODUCTION TO LEARNING DISABILITIES, 3 hours credit

A study of specific learning disabilities, with emphasis on theories, definitions, and identification of learning disabled children and adolescents; and diagnosis, placement, and management procedures. Prerequisite: SPED 3103.

4203 EDUCATION OF THE GIFTED CHILD, 3 hours credit

Introduces methods of identifying the gifted/talented child and surveys strategies, methods and techniques for teaching this child. Emphasis is placed on the role of the regular classroom teacher in the identification and educational processes. Lecture 3 hours. Prerequisites: SP ED 3103 or departmental approval.

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

* Liberal arts and sciences course.

GR May be taken for graduate credit.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

CHAIR - David A. Cameron, Associate Professor

Assistant Professors: Adrian, J. Jones, Lavender, Wilson

Instructors: Dering, Green, Helvey, Ihler, McDonald, Stone

PROGRAMS IN HEALTH AND PHYSICAL EDUCATION

The Department of Health and Physical Education offers five concentration areas leading to a Bachelor of Science degree: 1) Physical Education and Health, 2) Physical Education and Health Alternate, 3) Physical Education and Safety, 4) Physical Education and Recreation, and 5) Physical Education and Athletic Training. Options one, two, and three are applicable as teacher certification programs. Minors or teaching endorsements are available in Athletic Coaching, Driver and Safety Education, Health, and Physical Education and Health. Minors are also available in the areas of Athletic Training and Recreation.

Consult a departmental advisor regarding questions and/or advisement for the various programs.

BACHELOR OF SCIENCE DEGREE MAJOR IN HEALTH AND PHYSICAL EDUCATION (370)

I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

II. MAJOR or MAJOR-MINOR47-65 hours

Core Courses25 hours
HLTH 1053, HLTH 2213, HLTH 3012, HLTH 3244, HLTH 4503, HPET 2322, SFTY 3613; Physical Education Activity Courses (5 hours). Must include a course in aerobic conditioning, team sport, racquet sport, aquatic activity and dance, tumbling and gymnastics, or weight training. Courses in athletics or intramurals may not be used to meet this requirement.

Concentration27-40 hours
Majors must complete one of the following concentrations.

Physical Education and Health (Major-Minor - 30 hours)

FNS 1343, HLTH 3292, HLTH 3303, HPET 3052 or HPET 3062, HPET 3332, HPET 3352, HPET 3362, HPET 4003, HPET 4203, HPET, HLTH, or SFTY Electives (5 hours), Physical Education Activity (3 hours)

Physical Education and Health (Major - 22 hours)

Alternate Plan for Teaching License. FINS 1343, HLTH 3292, HLTH 3303, HPET 3052 or 3062, HPET 3332, HPET 3352, HPET 3362, HPET 4003, HPET 4203

NOTE: The alternate Plan for Teaching License will require the completion of an 18 hour minor or completion of the course work for a Teaching Endorsement in a second field.

Physical Education and Safety (Major-Minor - 35 hours)

FNS 1343, HLTH 3292, HLTH 3303, HPET 3052 or 3062, HPET 3332, HPET 3352, HPET 3362, HPET 4003, HPET 4203, SFTY 1001 (or other approved driver and safety education course), SFTY 3723, SFTY 3823, SFTY 4923, Physical Education Activity Electives (3 hours)

Physical Education and Recreation (Major-Minor - 30 hours)

HPET 2341, HPET 3052 or 3062, HPET 3353, HPET 3363, HPET 3373, HPET 4222, HPET 4781, SFTY 3723, MGMT 2033 or 3013 or equivalent, Elective Health and Physical Education courses (4 hours) - Physical Education Activity courses will not meet this requirement, Physical Education Activity courses (5 hours) - must include Lifeguard Training or Water Safety Instruction

Physical Education and Athletic Training Internship (Major-Minor - 31 hours)

BIOL 2034, BIOL 2134, FNS 1343, HLTH 3292, HLTH 3303, HLTH 3321 (2 hours), HLTH 4292, HLTH 4392, HPET 4003, HPET 4203, SFTY 3723.

NOTE: Four additional credit hours (or equivalent) of internship are required for consideration of NATA certification. Completion of the prescribed coursework does not automatically confer status as a certified athletic trainer. National Athletic Training Association standards must be met. Consult an HPE advisor for details.

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION**Teacher Licensure/Certification**

Cameron University offers a program leading to licensure/certification in Health and Physical Education. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

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

NOTE: A "C" grade or better will be required in the major-minor courses if a student selects professional education.

NOTE: For teacher certification, a minimum cumulative grade point average of 2.5 is required.

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 AND CORRECTIVES PHYSICAL EDUCATION, 2 hours credit

Principles and problems related to adapting physical activities and exercises to specific requirements of exceptional individuals. Lecture 2 hours.

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.

3321 SPECIAL STUDIES: CLINICAL EXPERIENCE IN ATHLETIC TRAINING, 1 hour credit

Independent study designed to allow students who are interested in becoming certified as athletic trainers to acquire practical experience in the athletic training environment under a nationally certified athletic trainer. National Certification requires 300 clock hours. May be repeated for a maximum 6 hrs.

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.

4613 METHODS AND MATERIALS IN HEALTH EDUCATION, 3 hours credit

Problem solving and conceptual approaches to teaching health education. (Evaluation techniques, selection and use of resources.) Emphasis will be placed on content selection and teaching methodology appropriate to elementary and secondary schools. Lecture 3 hours. Prerequisite: HLTH 3303 or departmental permission.

4292 SPORTS MEDICINE II, 2 hours credit

A study of methods of evaluation, managing, and treating sports related injuries specific top extremities and back area.

4392 SPORTS MEDICINE III, 2 hours credit

A study of methods of evaluation, managing, and treating sports related injuries specific to upper extremities, abdomen, thorax, head, and neck.

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: Departmental permission.

3052 SPORTS OFFICIATING I, 2 hours credit

Current rules, interpretation and techniques in sports officiating, with practical application in techniques and mechanics of officiating football, soccer and volleyball. Students with successful performance may be eligible to receive official ratings. Lecture 1 hour/laboratory 2 hours.

3062 SPORTS OFFICIATING II, 2 hours credit

Current rules, interpretation and techniques in sports officiating with practical application in techniques and mechanics of officiating baseball, basketball and wrestling. Students with successful performance may be eligible to receive official ratings. Lecture 1 hour/laboratory 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. Lecture 2 hours.

3353 CAMP COUNSELING, 3 hours credit

A study of methods and content for leadership in camping and outdoor recreation. One weekend campout required. Lecture 3 hours.

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.

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.

4003^{ca} 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.

4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS, 2 hours credit

Intramural programs; evaluation of activities, use of test in forming competitive groups. Lecture 2 hours.

4542 THEORY OF COACHING TRACK AND FIELD, 2 hours credit

A study of the techniques of coaching track and field. Lecture 2 hours.

4552 THEORY OF COACHING OFFENSIVE FOOTBALL, 2 hours credit

A study of the techniques of coaching offensive football. Lecture 2 hours.

4562 THEORY OF COACHING DEFENSIVE FOOTBALL, 2 hours credit

A study of the techniques of coaching defensive football. Lecture 2 hours.

4572 ADVANCED THEORY OF COACHING FOOTBALL, 2 hours credit

An intensive study of modern techniques of coaching football. Lecture 2 hours.

4582 THEORY OF COACHING BASKETBALL, 2 hours credit

A study of the techniques of coaching basketball. Lecture 2 hours.

4592 THEORY OF COACHING BASEBALL, 2 hours credit

A study of the techniques of coaching baseball. Lecture 2 hours.

4772 METHODS OF TEACHING PHYSICAL EDUCATION, 2 hours credit

Problems and methods in the teaching of Physical Education. Lecture 2 hours. Teacher Certification students must be admitted to teacher education prior to enrollment in this course.

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 departmental 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.

1002 LIFE TIME SPORTS, 2 hours credit

Development and practice in a variety of individual and dual sports skills that will contribute to the enjoyment and life-time participation of sports. Laboratory 4 hours.

1021 TEAM SPORTS, 1 hour credit

Fundamentals of Basketball, Football, Soccer, Speedball, Softball, and Volleyball. Four to five of these sports are incorporated in the class with instruction and practice in basic skills followed by participation as a member of a team. Laboratory 2 hours.

1022 FOUNDATIONS OF PHYSICAL ACTIVITY, 2 hours credit

Emphasizes a meaningful understanding of the "why" of physical activity through experiences illustrating the effects of exercise in five basic areas: social, emotional, organic, neuromuscular, and interpretative. Laboratory experiences and practical applications are provided. Laboratory 2 hours, Lecture 1 hour.

1041 TUMBLING AND GYMNASTICS, 1 hour credit

Introduction to basic skills in tumbling, gymnastics apparatus and trampoline. Laboratory 2 hours.

1051 INTERMEDIATE GYMNASTICS, 1 hour credit

Introduction and development in tumbling and gymnastics routines or apparatus and trampoline. Laboratory 2 hours. Prerequisite: Beginning gymnastics or instructor's permission.

1081 PHYSICAL EDUCATION ACTIVITY, 1 hour credit

Individual and group activities for general physical improvement. Laboratory 2 hours.

1101 BEGINNING SWIMMING, 1 hour credit

Introduction to swimming which will equip the individual with basic water safety skills and strokes. Provides opportunity for studying Beginner and Advanced Beginner Red Cross courses. Laboratory 2 hours.

1111 INTERMEDIATE SWIMMING, 1 hour credit

A variety of swimming skills are introduced and practiced to provide the student with the opportunity to learn the elements of good swimming. Emphasis on strokes and safety procedures in Intermediate Red Cross courses. Laboratory 2 hours. Prerequisite: Beginning Swimming or equivalent.

1121 ADVANCED SWIMMING, 1 hour credit

Student will practice the series of basic strokes with the emphasis on coordination of the whole stroke in order to swim effectively with ease, endurance, and versatility in the water. Advanced forms of safety and an introduction to swimming rescues are provided. Laboratory 2 hours. Prerequisite: Intermediate Swimming or equivalent.

1131 LIFEGUARD TRAINING, 1 hour credit

A comprehensive lifesaving course covering personal safety and self rescue skills, swimming skills for lifesaving, approaches, carries, defenses, releases, search and rescue, cardiopulmonary resuscitation and small craft safety. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.

1141 WATER SAFETY INSTRUCTION (WSI), 1 hour credit

Two part course with the first part consisting of analysis of basic swimming strokes, additional strokes, related aquatic skills plus diving fundamentals. The second part consists of practical teaching in the Red Cross program from beginner to Advanced Life Saving level with cardiopulmonary resuscitation (CPR). Laboratory 2 hours. Prerequisite: Current Senior Life Saving Certificate.

1151 SKIN AND SCUBA DIVING, 1 hour credit

Practice involving skills in safe and effective use of face mask, snorkel, fins and other scuba equipment. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.

1152 SKIN AND SCUBA DIVING, 2 hours credit

Practice involving skills in safe, effective use of face mask, snorkel, fins and other scuba equipment. Deep water check out and certification. Lecture 1 hour. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.

1201 BADMINTON, 1 hour credit

Fundamental techniques of Badminton with instruction in court work of singles and doubles. Laboratory 2 hours.

1221 ORIENTEERING, 1 hour credit

Study of basic principles in reading, interpreting, and developing skills to accurately use the map and compass for individual and group enjoyment (hiking, hunting, cross country skiing, etc.) and to develop knowledge and competitive techniques for the sport of Orienteering. Laboratory 2 hours.

1251 BEGINNING SAILING, 1 hour credit

Fundamental skills and basic knowledge for sailing small watercraft. Laboratory 2 hours. Prerequisite: Must be able to swim.

1261 CANOEING AND CAMPING, 1 hour credit

Fundamentals skills and basic knowledge for canoeing lakes and streams; preparation and use of equipment for outdoor camping. Weekend field trip. Laboratory 2 hours. Prerequisite: Must be able to swim.

1281 FLY AND BAIT CASTING, 1 hour credit

Development of skills in executing different methods of casting. Fundamentals used in selecting of rod, reel, and lures. Safety and strategy for fisherman. Laboratory 2 hours.

1291 CYCLING AND HIKING, 1 hour credit

Organizing and directing individual and group Cycling and Hiking sessions. Simple techniques in the repair and maintenance of bicycles. Proper techniques in safety and skills that will add to the individual's enjoyment and development of appreciation for outdoor recreation. Laboratory 2 hours.

2001 ELEMENTARY GOLF, 1 hour credit

Fundamentals and techniques of beginning golf. Laboratory 2 hours.

2011 ELEMENTARY BOWLING, 1 hour credit

Teaching of fundamentals and techniques of bowling. Laboratory 2 hours.

2021 ADVANCED BOWLING, 1 hour credit

Advanced into teams and league bowling. Laboratory 2 hours. Prerequisite: PE 2011.

2031 ELEMENTARY TENNIS, 1 hour credit

Fundamentals and techniques of tennis. Laboratory 2 hours.

2032 INDIVIDUAL SPORTS, 2 hours credit

Individual sports and recreational activities for general physical improvement. Laboratory 4 hours.

2041 INTERMEDIATE TENNIS, 1 hour credit

Review of fundamentals and additional instruction of strokes, court work in singles and doubles. Laboratory 2 hours. Prerequisite: Beginning Tennis or equivalent.

2061 RIFLERY, 1 hour credit

Safety and marksmanship. Laboratory 2 hours.

2062 PHYSICAL EDUCATION ACTIVITY, 2 hours credit

Individual and group activities for general physical improvement. Laboratory 4 hours.

2101 ARCHERY, 1 hour credit

Men and/or women basic fundamentals of shooting a bow and arrow, terminology, correct selection and care of equipment, safety procedures and etiquette. Laboratory 2 hours.

2121 SELF-DEFENSE, 1 hour credit

Study and development of skills and fundamental knowledge in the art of self-defense through scientific principles of body control over opposing forces. Laboratory 2 hours.

2161 INTRAMURAL SPORTS, 1 hour credit

Participation in the intramural activities of the University with approval of the Intramural Director. (Maximum credit one hour toward general education requirements.)

2181 RECREATION ACTIVITIES, 1 hour credit

Participation in outdoor and indoor recreational activities. Laboratory 2 hours.

INTERCOLLEGIATE SPORTS COURSES (ATH)**2201 BASEBALL, 1 hour credit**

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2211 BASKETBALL, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2231 GOLF, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2241 TRACK AND FIELD, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2251 TENNIS, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2261 SOFTBALL, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

2271 VOLLEYBALL, 1 hour credit

Participation in Intercollegiate Sports. Maximum credit 1 hour toward General Education.

SAFETY COURSES (SFTY)**1001 DEFENSIVE DRIVING, 1 hour credit**

Instruction for the improvement of driver skills to avoid traffic related accidents. Lecture 1 hour.

3613* DRUGS AND SOCIETY, 3 hours credit

A study of substance abuse emphasizing the adverse effects on human life, health, traffic safety, and daily living.

3723 SAFETY EDUCATION, 3 hours credit

Designed to prepare teachers in methods and materials related to safety problems and accident prevention in the home, school, recreation, work and highways. Lecture 3 hours.

Persons enrolling in the following Safety courses must have a valid driver's license.

3823 DRIVER AND TRAFFIC SAFETY I, 3 hours credit

Designed to prepare teachers in problems, techniques and methods of teaching driver and traffic safety in the secondary school. Primary emphasis on teaching the classroom phase of Driver Education related to instruction, and evaluation. Laboratory time for practicing on-the-street driving. Lecture 2 hours, laboratory 2 hours.

4923 DRIVER AND TRAFFIC SAFETY II, 3 hours credit

Designed to improve skills and techniques for teachers and supervisors in the field of driver education. Includes the study of the latest developments in materials, equipment and research. Laboratory time in teaching beginning driver in dual-control car. Lecture 2 hours, laboratory 2 hours. Prerequisite: SFTY 3823.

4943 ORGANIZATION AND ADMINISTRATION OF DRIVER EDUCATION, 3 hours credit

Designed for planning of curriculum, organization and the administration of Driver and Safety Education programs with emphasis on the evaluation of current programs and factors involved in program supervision and administration such as: qualifications, credit, state and national records, reimbursement, adult programs and scheduling. Lecture 3 hours. Prerequisite: SFTY 4923.

4953 METHODS AND MATERIALS OF TEACHING DRIVER EDUCATION, 3 hours credit

A survey of driver education content and materials including classroom, simulation, range and in-car instruction. Effective teaching strategies will be presented as to organization and evaluation of driver education programs. Lecture 3 hours. Prerequisites: SFTY 3823, SFTY 4923.

4981-4 SPECIAL STUDIES, 1-4 hours credit

Directed individual study in selected areas of Safety, Traffic and Driver Education through research, readings, reports and/or on-the-job internship. May be repeated to a total of 8 hours. Prerequisite: Junior standing and departmental permission.

* Liberal arts and sciences course

GR May be taken for graduate credit.

DEPARTMENT OF PSYCHOLOGY AND HUMAN ECOLOGY

CHAIR - Lawrence Weinstein, Professor

Professors: Harrison, Weinstein

Associate Professors: Alexander, Pazoureck

Assistant Professors: Dzindolet, Thomas, Xie

The Department of Psychology and Human Ecology offers programs leading to the Bachelor of Science degree with majors in Psychology and Human Ecology. The Department also offers the Early Childhood concentration for the Interdisciplinary Studies Associate Degree. Refer to the Graduate Catalog for information relating to the Psychology concentration in the Master of Science degree program.

BACHELOR OF SCIENCE DEGREE MAJOR IN HUMAN ECOLOGY (390)

Human Ecology is the study of humans as social, physical, biological beings in interaction with each other, their community, and with their natural constructed environments. Study of the family ecosystems is the core of Human Ecology, designed to prepare individuals, as members of a family, for productivity for self and society through education in wise decision making and effective use of resources to optimize human development and the quality of life and the environment. The University's plan of study in Human Ecology is designed to educate students for success in occupational careers that involve working with individuals and families in meeting their developmental, behavioral, relational, financial and consumption needs.

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

- II. MAJOR 36 hours

Required Core Courses 18 hours
CRM 3603, CRM 3623, CRM 4633, FAM SC 1123, FAM SC 1163, FNS 1343

Concentration 18 hours
Human Ecology majors must complete one of the following concentrations:

EARLY CHILDHOOD (18 hours)

FAM SC 3143, ECE 3154, ECE 4142, ECE 4152 and seven hours to be selected from the following: FAM SC 4143, FNS 3313, FAM SC 4801-4 or other approved electives from departmental offerings.

HUMAN ECOLOGY (18 hours)

To be selected from approved offerings within the department.

FAMILY SCIENCE (18 hours)

FAM SC 3143, FAM SC 4123, FAM SC 4133, FAM SC 4153 and six hours to be selected from the following: FNS 3313, FAM SC 4143, FAM SC 4163, FAM SC 4173, FAM SC 4783, FAM SC 4801-4*, FAM SC 4881-4 or other approved electives from departmental offerings.

* Second semester juniors must make formal application for their Field Experience with the Human Ecology Office.

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

IV. ELECTIVES SELECTED TO SUPPORT CAREER GOALS AND COMPLETE
128 HOURS FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Early Childhood Education. For further clarification, consult the Teacher Certification Catalog and your departmental advisor.

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 departmental 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 departmental permission.

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 departmental permission.

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. Prerequisite: Junior standing or department permission. Lecture 3 hours.

CRM, FAM SC, FNS

4781-3 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: Departmental approval.

FAMILY SCIENCE COURSES (FAM SC)

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: FAM SC 1123, Junior standing or departmental permission.

4123* MARRIAGE, 3 hours credit

Identification and analysis of stressors in contemporary marriages. Strategies for enrichment will be emphasized. Lecture 3 hours. Prerequisite: FAM SC 1123, Junior standing or departmental permission.

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: FAM SC 1123 or PSYCH 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 department approval.

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: FAM SC 1123, PSYCH 1113 or SOCI 1113, Junior standing or departmental approval.

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: FAM SC 1123, Junior standing, or departmental approval.

4173 FUNCTIONAL FAMILY SYSTEMS, 3 hours credit

Emphasizes the family unit as a communicational, instructional, and interactional system. Prerequisite: FAM SC 1123, Junior standing, or departmental approval.

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: Departmental approval.

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: Departmental approval.

4901-3 SEMINAR IN FAMILY SCIENCE, 1-3 hours credit

A course designed to meet the special needs within the department. Prerequisite: Departmental approval. May be repeated with a different topic for a total of 6 hours.

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 LIFECYCLE, 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.
GR May be taken for graduate credit

EARLY CHILDHOOD EDUCATION CONCENTRATION FOR INTERDISCIPLINARY STUDIES - ASSOCIATE DEGREE

GENERAL EDUCATION37 hours

CONCENTRATION21-23 hours

HUMAN ECOLOGY - CHILD DEVELOPMENT15 hours

FNS 1343, FAM SC 1123, FAM SC 3143, HLTH 2213, ECE 4803

EARLY CHILDHOOD EDUCATION6-8 hours

Selected from the following: ECE 3154, ECE 4142, ECE 4152, FAM SC 4781-3, FAM SC 4901-3

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 as part of their undergraduate experience 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 REQUIREMENTS50 hours
General Education requirements are found on the red striped pages.

II. MAJOR39 hours

Required Courses24 hours

PSYCH 1113, PSYCH 4423, PSYCH 2113, PSYCH 3353, PSYCH 3413, PSYCH 4363, PSYCH 4393, *STAT 3003

Electives15 hours
 Selected from the following list with a minimum of 9 hours having a Psychology prefix of 3000 or above. PSYCH 2223, PSYCH 2323, PSYCH 3313, PSYCH 3333, PSYCH 3383, PSYCH 4313, and PSYCH 4443

II. MINOR18 hours

II. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

*Statistics 3003 may be used to fulfill the general education mathematics requirements. However, students with insufficient high school mathematics background must complete MATH 0213 or 0115 before enrolling in STAT 3003. Cameron University offers a program leading to a Special Endorsement teaching credential in Psychology. Consult the Teacher Certification Catalog and your departmental advisor for further details.

PSYCHOLOGY COURSES (PSYCH)

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: PSYCH 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: PSYCH 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: PSYCH 1113.

2323* SENSATION AND PERCEPTION, 3 hours credit

A survey of major phenomena in sensation and perception in vision (adaptation, brightness, color vision, binocular vision, etc.), audition, taste, touch; imagery, individual differences, time and motion, attention and theories of psychophysical judgment (e.g., STD, classical, etc.). Prerequisite: PSYCH 1113.

3313* COGNITIVE PSYCHOLOGY, 3 hours credit

Examines cognitions involving language, thinking, problem solving, memory, intelligence, and categorization. Prerequisite: PSYCH 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: PSYCH 1113.

3353* LIFESPAN HUMAN GROWTH AND DEVELOPMENT, 3 hours credit

Survey of the psychological changes across the lifespan. Cognitive, social, emotional, and physical changes from birth to death will be examined. Prerequisite: PSYCH 1113.

3383 SOCIAL PSYCHOLOGY, 3 hours credit**

The study of human behavior as affected by social stimuli. Prerequisite: PSYCH 1113.

3413^{GR*} 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: PSYCH 1113.

4313 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: PSYCH 1113 and STAT 3003.

4331-3 SEMINAR IN PSYCHOLOGY, 1-3 hours credit

Specific problems or issues of concern to Psychology are given in depth exploration and analysis. A different topic may be presented each semester. (May be repeated for a total of six hours credit.) Lecture 3 hours. Prerequisites: Senior standing and departmental approval.

4363* ABNORMAL PSYCHOLOGY, 3 hours credit

The study of various abnormalities in human behavior with emphasis on the psychoses and neuroses. Lecture 3 hours. Prerequisite: PSYCH 1113.

4393* PERSONALITY, 3 hours credit

Factors determining and affecting personality, its development and assessment. Lecture 3 hours. Prerequisite: PSYCH 1113.

4423^{GR*} EXPERIMENTAL PSYCHOLOGY, 3 hours credit

Studies in the major designs, methods employed and problems in conducting experiments in psychological research. Lecture 3 hours. Prerequisites: PSYCH 1113, STAT 3003.

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: PSYCH 1113.

* Liberal arts and sciences course

GR May be taken for graduate credit.

SCHOOL OF LIBERAL ARTS

David Miller, Dean
Sally Soelle, Associate Dean

DEPARTMENT OF ART
Jack Bryan, Chair

DEPARTMENT OF COMMUNICATIONS
Tony Allison, Chair

DEPARTMENT OF ENGLISH
Scherrey Cardwell, Chair

DEPARTMENT OF HISTORY AND HUMANITIES
Charles Smith, Chair

DEPARTMENT OF
LANGUAGES AND COMMUNICATION
George Stanley, Chair

DEPARTMENT OF MUSIC
Joseph Koob, Chair

DEPARTMENT OF
POLITICS, SOCIOLOGY AND CRIMINAL JUSTICE
Frank S. Meyers, 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, communications, English, history, Romance languages, music, criminal justice, sociology, 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 - Jack Bryan, Associate Professor

Professors: Scott, Warren

Associate Professors: Liontas-Warren

Assistant Professor: Williams

The mission of the Department of Art is to support and enhance the University's "educational process" in a dynamic mode 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 disciplines.

- I. GENERAL EDUCATION REQUIREMENTS50 hours
General Education requirements are found on the red striped pages.
- II. MAJOR48 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 Courses10 hours
- III. MINOR18 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 DEGREE MAJOR IN STUDIO ART (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 disciplines. At Cameron, the B.F.A. degree is awarded with a major either in Painting, Printmaking, or Sculpture.

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

- I. GENERAL EDUCATION REQUIREMENTS50 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 Concentration18 hours

Electives in Advanced Studio Courses8 hours

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

B.F.A. students must have 40 hours of Liberal Arts and Sciences Courses.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Art. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

ART COURSES (ART)

NASAD requirements for art studios: Studio courses have an average requirement of 3 hours lab or assigned work per week for each credit hour. Studio times will be posted or arranged by the instructor. (In some classes this will be in the form of home studio work and research.)

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. Laboratory 9 hours per week.

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. Laboratory 3-9 hours per week.

1113* DRAWING I, 3 hours credit

Introduction to the basic principles, techniques and media of drawing/perception. Laboratory 9 hours per week.

1123 DRAWING II, 3 hours credit

Drawing experiences that coordinate drawing skills with perception and creativity. Laboratory 9 hours per week. 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. Laboratory 9 hours per week.

1223 DESIGN II, 3 hours credit

Application and analysis of three-dimensional elements and principles of design. Laboratory 9 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 department chairman. Laboratory 2 hours per week.

2243* COLOR, 3 hours credit

Exploration and analysis of color. Laboratory 9 hours per week.

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. Laboratory 9 hours. Prerequisite ART 1213.

2313 PAINTING, 3 hours credit

Painting courses exploring the principles, techniques, media and creative potential of painting. Laboratory 9 hours per week. 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. Laboratory 9 hours per week. Prerequisites: ART 1113.

2513 SCULPTURE, 3 hours credit

A beginning class that emphasizes sculptural form and aesthetics through various media and techniques. Laboratory 9 hours per week. 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.

2813 BEGINNING CERAMICS, 3 hours credit

Introduction to ceramic techniques, with focus on exploration, ideas, and the aesthetics of form. Laboratory 9 hours per week.

3133 FIGURE DRAWING, 3 hours credit

A studio course emphasizing drawing concepts and techniques. Laboratory 9 hours per week. Prerequisite: ART 1113.

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/laboratory 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. Laboratory 9 hours per week.

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 credited with a major in Art. Laboratory 9 hours per week.

4143 ADVANCED DRAWING, 3 hours credit

Advanced studio courses exploring the principles, techniques, media and creative potential of drawing. Laboratory 9 hours per week. May be repeated for credit under a different subtitle. Prerequisite: ART 1113.

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. Laboratory 9 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. Laboratory 9 hours per week. 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. Laboratory 9 hours per week. 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. Prerequisite: ENGL 1213 and 3 hours of History.

4823 ADVANCED CERAMICS, 3 hours credit

Advanced studio courses in the application of clay techniques emphasizing the aesthetics of form. Laboratory 9 hours per week. 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. Laboratory 3 to 12 hours per week.

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: Approval by the department Chairman.

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.

4933 SENIOR ART STUDIO, 3 hours credit

Senior level art experience in a major studio area. May be repeated for credit. Laboratory 9 hours, as assigned by department chairman. Prerequisites: Senior standing in Art and permission of the department Chairman.

* Liberal arts and sciences course.

DEPARTMENT OF COMMUNICATIONS

CHAIR - Tony Allison, Associate Professor
 Associate Professors: Heflin, Price
 Assistant Professors: Adams, Jenkins, Smith, Wallace
 Instructors: Norman, Leal
 Pre-Law Advisor: Smith

The Department of Communications (in cooperation with the Department of Languages and Communication) offers a program leading to a Bachelor of Arts degree with a major in Communications.

The Bachelor of Arts in communications is spread across the curricula of two departments in the School of Liberal Arts: the Department of Communications and the Department of Languages and Communication. The B.A. in communications attempts to balance theory and performance-based skills in four areas of concentration: speech communication, radio/television, public relations and organizational communication, and journalism. As the four concentration areas demonstrate, the disciplinary perspective of the Communications program tends to be centered in all areas of oral and mass communication. Oklahoma teacher certification is also available in "Speech-Drama" by means of a combination of courses taken from the Departments of Communications, Education, and Theatre Arts. Major activities of the department include: CUTV, KCCU, broadcast contests, Speech and Debate Team, Summer Speech-Debate-Broadcast Camp, gifted and talented workshops for southwest Oklahoma and north Texas public schools, high school Speech Demonstration Day, and Communications Week. Three student organizations in the department are: Broadcast Club, Lambda Pi Eta, and Pi Kappa Delta. (See Communications Department's web pages www.cameron.edu).

BACHELOR OF ARTS DEGREE MAJOR IN COMMUNICATIONS (140)

- I. GENERAL EDUCATION REQUIREMENT50 hours
 General Education requirements are found on the red striped pages.

- II. MAJOR42 hours
 All Communications majors are required to keep a portfolio of their work. (See advisor for details.)

Required Core Courses12 hours
 R/TV 1013, JOURN 2113, COMM 3393, COMM 3383 or PUBREL 4223

Concentration30 hours
 Majors must choose one or more of the following concentrations: Speech Communication, Radio/Television, Journalism, Public Relations and Organizational Communication.

Speech Communication

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 3013, COMM 3103, COMM 3113, COMM 3121-4, COMM 3353, COMM 3523, COMM 3643, COMM 3991-3, COMM 4633, COMM 4773, COMM 4991-3

Radio/Television

R/TV 2213, R/TV 2313, R/TV 3123, R/TV 3323, R/TV 3513, R/TV 3911-2 (R/TV 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

R/TV 2113, R/TV 3223, R/TV 3413, R/TV 4133, R/TV 4333, R/TV 4923, JOURN 4813

Radio/Television students may select three hours of their electives from the following:

THTR 1203, THTR 3303, THTR 3703

Journalism (See Department of Languages and Communication for requirements)

Public Relations and Organizational Communication

COMM 3383 or PUBREL 4223, JOURN 3013, JOURN 3043, COMM 3313, JOURN 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 Journalism: R/TV 2313, JOURN 3122, JOURN 3131, COMM 3353, COMM 3523, COMM 4633, COMM 4723, PUBREL 4823, PUBREL 4973

Students in Public Relations and Organizational Communication may select three hours of electives from the following: MGMT 3013, MKTG 3413, MKTG 4433

III. MINOR18 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.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure in Speech/Drama. Consult the Teacher Certification Catalog for details.

COMMUNICATIONS 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 to provide experience in the preparation and delivery of oral presentations. 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

An overview of the nature of discussion and its essential function in decision-making, problem solving, conflict, leadership, and cohesiveness. This course approaches small group communication from both a theoretical and application perspective. The objective of this course is to learn how to communicate within groups. 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.

3013* PARLIAMENTARY PROCEDURE, 3 hours credit

An intensive study of Robert's Rules of Parliamentary Procedure with some practical experience in application. Lecture 3 hours.

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.

3313* ADVANCED BUSINESS & PROFESSIONAL SPEAKING, 3 hours credit

Emphasis is placed on the development of public speaking skills in business and professional settings. Technical, visual aids, symposium, sales and other persuasive presentations will be given attention. Lecture 3 hours. Prerequisite: COMM 1113 or Departmental permission.

3353* TEAM LEADERSHIP PROCESSES, 3 hours credit

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 hours credit

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 hours credit

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.

3523* INTERVIEWING, 3 hours credit

Methods and guidelines of employment interviewing from the perspective of the interviewer(ee). Other types of interviews to be examined are the selection, appraisal, counseling, legal, information gathering, and sales interview. 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.

3991-3 WORKSHOP, 1-3 hours credit

Workshop designed to give intensive emphasis to a specific area of speech. May be repeated with a different topic for additional credit up to a maximum of six hours. Prerequisites: Junior standing and/or department permission.

4623* COMMUNICATION THEORY, 3 hours credit

An advanced survey of communication theories in different contexts. The focus is on how communication theories are built and tested and how different theories are related. Lecture 3 hours. Prerequisites: COMM 1113 and junior standing.

4633* COMMUNICATION ASSESSMENT AND CONSULTING, 3 hours credit

Introduction to the various instruments used in measuring communication effectiveness in the organizational setting. Emphasis will be given to auditing and diagnostic methods, designing solutions to communication problems and examining consulting strategies. Lecture 3 hours.

4723 ORGANIZATIONAL COMMUNICATION 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 corporate and organizational communication. May be repeated for a maximum of six hours. Prerequisites: Upper-division standing and department permission.

4773 SPEECH/DRAMA METHODS, 3 hours credit

Study of the basic program of speech-drama in the secondary schools; organization of materials, procedures and techniques of instruction. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Visitation and observation of the teaching situation. Lecture 3 hours. Prerequisites: Department permission and 20 hours communications and theatre arts.

4991-3* INDEPENDENT STUDY, 1-3 hours credit

An individual study course of advanced nature. Subject matter varies with background and interest of the student and may be both classwork and laboratory. Prerequisite: Department permission. May be repeated for a total of six hours credit.

RADIO/TELEVISION COURSES (R/TV)**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.

2113 BROADCAST ANNOUNCING, 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

Tools and techniques of audio recording and radio station operation. Lecture 3 hours, laboratory 2 hours.

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 PROGRAMMING AND AUDIENCE MEASUREMENT, 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 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: R/TV 2213 or department permission.

3323* 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: R/TV 2313.

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: R/TV 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: R/TV 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.

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: R/TV 2313.

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.

* Liberal arts and sciences course.

DEPARTMENT OF ENGLISH

CHAIR - Scherrey Cardwell, Professor
 Professors: Holmes, L. Shanahan, M. Shanahan
 Associate Professors: Morris, Solstad, Spencer, Underwood
 Assistant Professors: Hammond-Early, Kingsley, Sircy
 Instructor: Nickel
 Writing Center Director: Kinslow

The Department of English offers a program leading to a Bachelor of Arts degree with a major in English and concentrations in English, English Education, and Creative Writing. The English concentration is designed for students contemplating graduate work, including law school; for students desiring careers in technical writing, editing, public relations and the like; and for students desiring a broad general background in literature. The English Education concentration is designed for prospective teachers of secondary English. The Creative Writing concentration is designed for students who wish to become professional writers.

BACHELOR OF ARTS DEGREE MAJOR IN ENGLISH (120)

- I. GENERAL EDUCATION REQUIREMENT50 hours
 General Education requirements are found on the red striped pages.

- II. MAJOR45 hours

Required Courses6 hours

ENGL 93003 Introduction to Literary Studies

ENGL 3113 Shakespeare

Concentration39 hours

English majors must complete one of the following concentrations.

I. English

Required Course: ENGL 3303 Advanced Composition.

ENGL 2543 or 2653, ENGL 2713 or 2723 or ENGL 2773 or 2883.

Guided Electives*: (15 hours) one course from each of the following areas:

- A) English Literature Before 1800: ENGL 3883, 4053, 4213, 3123, 3213, or 4513.
- B) English Literature After 1800: ENGL 3613, 3713, 3883, 4053, 4113, 4123, or 4413.
- C) American Literature: ENGL 3513, 3523, 3883, 4053, 4313, 4323, or 4413.
- D) Cultural Diversity: ENGL 3313, 3323, 3883, 4053, or 4713.
- E) Language, Linguistics, and Rhetoric: ENGL 3883, 4053, 4613, 4623, or 4633.

*One of the Guided Electives must focus on the novel.

Free Choice Electives: (12 hours) Any English or Professional Writing course at the 2000 level or above. English majors are strongly advised to take at least one course or seminar which focuses on (a) poetry, (b) drama, and (c) a major author in addition to Shakespeare. Students who wish to pursue graduate studies in English are strongly advised to take ENGL 4813 and ENGL 4633.

II. English Education

Required Courses: ENGL 3303, ENGL 4613, and ENGL 4623.

Required Surveys: ENGL 2543, 2653, 2713, 2723, 2773, and 2883.

Free Choice Electives (12 hours): Any English course numbered 3000 or above, not to include ENGL 4773.

III. Creative Writing

Required Course: ENGL 3013 Nonfiction Prose

ENGL 2653 or 2883, ENGL 3523, 4123, or 4413, PROFWR 3003 or 3013, PROFWR 3103, 3203, or 3403.

Free Choice Electives: 9 hours in English courses numbered 2000 or above and 15 hours in Professional Writing courses.

Assessment Portfolio

In consultation with an advisor, each English major will be expected to maintain an assessment portfolio which includes, but is not necessarily limited to, papers written in courses taken from the English major.

III. MINOR18 hours

Teacher Certification candidates are not required to complete a minor. 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 Creative Writing majors) 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.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in English. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

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 1113. 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 14 on the ACT English test and for adult students who score below 62 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*)

Individualized, student-paced plan of study and practice in college writing skills under the direction of Writing Center staff. Does not satisfy any degree requirements for any degree program at Cameron University. Laboratory 2 hours.

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 13 but less than 19 on the ACT English test and for adult students who score greater than 61 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.

1113* ENGLISH COMPOSITION I, 3 hours credit

Systematic analysis of expository rhetoric and composition with regular practice to develop proficiency in critical thinking, reading, and writing. A student with a sufficiently high ACT score in English may take English 1113 by examination and receive full credit for the course. (See Advanced Standing Examination.) 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: Permission of instructor 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 permission of instructor.

2013* POPULAR FICTION, 3 hours credit

Reading and discussion of twentieth-century short stories and novels. This course may not be counted toward a major in English. 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.

2543* 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.

2653* 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.

2713* 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.

2723* 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

2773* 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.

2883* 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.

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 departmental 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.

3013* NONFICTION PROSE, 3 hours credit

Writing and editing creative nonfiction prose, including the personal essay. Lecture 3 hours.

3113* SHAKESPEARE, 3 hours credit

Interpretation and criticism of selected works of Shakespeare. Lecture 3 hours.

3123^{CR*} ENGLISH LITERATURE OF THE SIXTEENTH CENTURY, 3 hours credit

Reading and discussion of sixteenth-century dramatic and non-dramatic works with a special emphasis on the major literary figures of the period. Lecture 3 hours.

3213^{CR*} ENGLISH LITERATURE OF THE EARLY SEVENTEENTH CENTURY, 3 hours credit

A study of English poetry, prose, and non-Shakespearean drama from 1600-1660, including works by such key figures as Jonson, Donne, Milton, and Marvell. 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.

3313^{CR*} AFRICAN AMERICAN LITERATURE, 3 hours credit

A survey of writings by African American authors from Colonial times to the present. Lecture 3 hours.

3323^{CR*} 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.

3513^{CR*} THE AMERICAN NOVEL, 3 hours credit

A critical analysis of representative American novels written through World War II. Lecture 3 hours.

3523^{CR*} THE CONTEMPORARY AMERICAN NOVEL, 3 hours credit

A critical analysis of representative major American novels written since World War II. Lecture 3 hours.

3613^{CR*} ROMANTIC AGE, 3 hours credit

An intensive study of the five major poets of the Romantic Period: Wordsworth, Coleridge, Byron, Shelley, and Keats. Lecture 3 hours.

3713^{CR*} VICTORIAN AGE, 3 hours credit

The poetry and prose of leading authors of the Victorian period, including study of the problems of the Victorian era that bear upon major British writers. Lecture 3 hours.

3881-3* WORKSHOP, 1-3 hours credit

Designed to emphasize special topics in English and the Language Arts. May be repeated with departmental permission.

4053^{CR*} 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 English 4053 once for credit but may not elect the same topic. Seminar 3 hours. Prerequisite: Departmental approval.

4113^{CR*} THE ENGLISH NOVEL, 3 hours credit

Critical analysis of representative novels from the eighteenth century to Thomas Hardy. Lecture 3 hours.

4123^{CR*} THE MODERN ENGLISH NOVEL, 3 hours credit

Critical interpretation of major English novels from Joseph Conrad to the present. Lecture 3 hours.

4213^{CR*} CHAUCER, 3 hours credit

Critical analysis of the poetry of Geoffrey Chaucer, in the original language, with emphasis on *The Canterbury Tales*. Lecture 3 hours.

4313^{CR*} 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.

4323^{CR*} THE AMERICAN RENAISSANCE, 3 hours credit

Intensive study of the prose, fiction, and poetry of the major American writers of the mid-nineteenth century. Lecture 3 hours.

4413^{CR*} MODERN AMERICAN AND BRITISH POETS, 3 hours credit

Contemporary trends in British and American poetry; selected works from the major poets. Lecture 3 hours.

4513^{CR*} ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY, 3 hours credit

A study of British drama, poetry, and prose of the Restoration and eighteenth century, including the works of such major figures as Dryden, Swift, Pope, Johnson, and Blake. Lecture 3 hours.

4613* 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^{cr*} 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.

4713^{cr*} 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.

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: Departmental approval.

4813^{cr*} LITERARY THEORY, 3 hours credit

A historical examination of the concepts that guide our evaluation, interpretation, and appreciation of literature. Emphasis will be placed on the practical application of literary theory in teaching and criticism. Lecture 3 hours.

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: Consent of department chairman.

PROFESSIONAL WRITING COURSES (PROFWR)**2013* INTRODUCTION TO CREATIVE WRITING, 3 hours credit**

A beginning level course for persons interested in writing fiction and/or poetry; especially persons interested in writing literary fiction and poetry such as that written by Ernest Hemingway, Robert Frost, and Sylvia Plath. Lecture 3 hours. Prerequisite: ENGL 1213 or permission of the department.

3003* TECHNIQUES OF FICTION, 3 hours credit

Primarily through close analysis of individual works, the student will gain an understanding of the techniques and conventions of successful contemporary fiction. Lecture 3 hours. Prerequisite: PROFWR 2013 or permission of the department.

3013* TECHNIQUES OF POETRY, 3 hours credit

Primarily through close analysis of individual works, the student will gain an understanding of the techniques and conventions of successful contemporary poetry. Lecture 3 hours. Prerequisite: PROFWR 2013 or permission of the department.

3103* CREATIVE WRITING — THE SHORT STORY, 3 hours credit

A course for persons who want to write short stories, especially those students who want to write literary short stories in the tradition of Ernest Hemingway, Raymond Carver, Joyce Carol Oates, and John Updike. Publishing will be discussed. Lecture 3 hours. May be repeated with different topics to a total of 6 hours. Prerequisite: ENGL 1213 and junior standing or permission of the department.

3203* CREATIVE WRITING — POETRY, 3 hours credit

Practice in traditional patterns as well as original forms of poetry; assigned category-writing, studying and sharing methods of composing. Lecture 3 hours. May be repeated with different topics to a total of 6 hours. Prerequisites: ENGL 1213 and junior standing or permission of department.

3303* WRITING FOR CHILDREN AND YOUNG ADULTS, 3 hours credit

Techniques of writing and selling fiction and non-fiction for children and young adults. Lecture 3 hours. May be repeated with different topics to a total of 6 hours. Prerequisite: ENGL 1213 and junior standing or permission of the department.

3403* CREATIVE WRITING — THE NOVEL, 3 hours credit

A course for persons working on or wanting to start a novel. A particularly helpful course for persons interested in literary novels like those of John Updike and Alice Walker. Lecture 3 hours. May be repeated with different topics to a total of 6 hours. Prerequisites: ENGL 1213 and junior standing or permission of the department.

3503* INSPIRATIONAL WRITING, 3 hours credit

Designed for the individual who wants to learn more about writing for today's expanding religious/inspirational market. Areas covered include devotional type material, interviews, inspirational non-fiction, writing the "how to" article, and short fiction. Lecture 3 hours. Prerequisites: ENGL 1213 and junior standing or permission of the department.

3991-3* WRITING WORKSHOP, 1-3 hours credit

Intensive concentration on a special aspect of writing. Focus may vary from semester to semester depending on instructor and students enrolled. May be repeated with different topics to a maximum of 6 hours. Prerequisites: ENGL 1213 and junior standing or permission of department.

4961-3* DIRECTED WRITING, 1-3 hours credit

An individualized program of intensive independent writing under the supervision of a qualified member of the faculty. May be repeated to a total of 6 hours. Prerequisites: ENGL 1213 and junior standing or permission of department.

* Liberal arts and sciences course.
GR May be taken for graduate credit.

DEPARTMENT OF HISTORY AND HUMANITIES

CHAIR - Charles W. Smith, Professor

Professors: Blodgett, Miller, Musslewhite, Stegmaier

Associate Professors: Crawford, Soelle, Voeltz

Assistant Professor: Stevens

Instructors: Richardson, Wensorski

The Department of History and Humanities offers a program leading to a Bachelor of Arts degree with a major in History. The department also coordinates the Humanities offerings and advises students relative to minors in ethnic studies, general humanities, and geography.

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 on past events and a deeper understanding of present conditions. The Department of History and Humanities provides several courses which meet general education requirements for all students. It also provides more specialized upper-level courses for those wishing to pursue a career related to history. Such education prepares students for careers in teaching, law, military service, and other professions.

BACHELOR OF ARTS DEGREE MAJOR IN HISTORY (130)

- | | |
|--|----------|
| I. GENERAL EDUCATION REQUIREMENT | 50 hours |
| General Education requirements are found on the red striped pages. | |
| II. MAJOR | 42 hours |
| Required Courses .....18 hours | |
| HIST 1113, HIST 1123, HIST 1483 or HIST 1493 (in addition to the course taken to meet the general education requirement), HIST 2113, HIST 2133, HIST 4793 | |
| Electives .....24 hours | |
| (Chosen from each of the following areas with the approval of the department.) | |
| American history courses (9-12 hours) | |
| European history courses (9-12 hours) | |
| Asian History, American History or cognate studies above and beyond the general education requirement (3-6 hours). A course or courses in Asian history, Latin American history, Economics, Geography, Political Science, Family history, Philosophy, Art history, or Sociology, or in any combination of these fields in which the student does not elect to minor. | |
| III. MINOR | 18 hours |
| The student is strongly advised to select Philosophy, Political Science, Economics, Sociology, English, or a foreign language for the minor. | |
| IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION. | |

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Social Studies. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

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.

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 WESTERN CIVILIZATION, 3 hours credit

The civilizations which have contributed to the shaping of contemporary society: the civilizations of the Near East, Greece, Rome, Medieval Europe, the Church Renaissance, and the Protestant Reformation. Lecture 3 hours.

1123* MODERN WESTERN CIVILIZATION, 3 hours credit

Early modern times and the genesis of present civilization. The period of the rise of monarchy, individualism, and capitalism in Western Europe; the development of the Industrial Revolution in Great Britain and the political revolutions in France and other European nations; the growth of totalitarianism and its struggle with democracy. 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.

2033* AMERICAN MILITARY HISTORY, 3 hours credit

A survey of American military history from American Revolution to the present. Lecture 3 hours.

2113* 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.

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.

2143* 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.

3013* HISTORY OF RELIGION IN AMERICA, 3 hours credit

An examination of religious ideas, movements, and institutions in American history with emphasis on those most influential in shaping American society. 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.

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 and 1493.

3123* HISTORY OF THE AMERICAN FAMILY, 3 hours credit

An examination of the structure and role of the American family from colonial times to present, with special emphasis on the relationship between social conditions and changes inside the family. Lecture 3 hours.

3233* ENGLAND TO 1689, 3 hours credit

The English people in their political, social, and institutional development from earliest times through the Glorious Revolution. Lecture 3 hours.

3243* ENGLAND SINCE 1689, 3 hours credit

Emergence of cabinet government, the Industrial Revolution, the Napoleonic era and empire problems, and the development of England to the present. Lecture 3 hours.

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.

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 or junior standing.

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 and HIST 1493.

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.

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.

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 permission of instructor. May be repeated with a different topic for a total of 6 hours credit.

4033* AMERICAN DIPLOMATIC HISTORY TO 1900, 3 hours credit

A survey of American foreign policy from the War for Independence to 1900, with emphasis on the efforts of the United States government to obtain recognition from the Continental European States, to protect and expand foreign trade, to defend neutral rights, and to maintain peace. Lecture 3 hours. Prerequisites: HIST 1483 and 1493.

4043 AMERICAN DIPLOMATIC HISTORY SINCE 1900, 3 hours credit**

A survey of American foreign policy from the end of the Spanish-American War to the present, with emphasis on the emergence of the United States as a world power, the involvement of the United States in World Wars One and Two, the attempt to establish and maintain world peace and peace keeping organizations, and the place of the United States in an interdependent world. Lecture 3 hours. Prerequisite: HIST 1493.

4113 AMERICAN WOMEN: 1620-1890, 3 hours credit**

A study of women's lives from the Colonial Period to the Post Civil War Era, with emphasis on the socio-economics and political status of American women and the changes that women have experienced in their public and private roles. Lecture 3 hours. Prerequisite: HIST 1483.

4123* AMERICAN WOMEN: 1890-PRESENT, 3 hours credit

A study of the changing socio-economic and political roles of American women and the relationship between women and society, with emphasis on the development of new values, attitudes, and behavior for women and the impact that emerging value structures have had on social organizations. Lecture 3 hours. Prerequisite: HIST 1493.

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.

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.

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.

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.

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.

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.

4303* PROGRESSIVE ERA, 1890-1920, 3 hours credit

An intensive study of the changes in American society caused by industrialization and urbanization and the responses to those changes, with an emphasis on political and social reform. Lecture 3 hours. Prerequisite: HIST 1493.

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.

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.

4333* THE SOUTHWEST TO 1846, 3 hours credit

The development of the region prior to the arrival of United States Army troops and settlement. Topics include the environment, pre-Columbian native societies, Spanish exploration and colonization, and tenure of the Republic of Mexico as ruler of the region. Lecture 3 hours. Prerequisite: HIST 1483.

4343* THE AMERICAN SOUTHWEST, 1846-PRESENT, 3 hours credit

The development of the region after 1846. Topics include immigration, urbanization, the federal presence, science and technology, popular culture, and the Sunbelt phenomenon and its subregional distinctions. Lecture 3 hours. Prerequisite: HIST 1493.

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 1123.

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 1123.

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, THE AGE OF ABSOLUTISM 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 1123.

4413* THE RENAISSANCE AND REFORMATION, 3 hours credit

The decline of feudalism and manorialism and the rise of the national state, the revival of culture and the arts; the decline of the universal church; the Protestant Reformation. Lecture 3 hours. Prerequisite: HIST 1123.

4423 TUDOR-STUART ENGLAND, 3 hours credit**

The emergence of the English state from the medieval period through the Reformation. Emphasis on the Tudor-Stuart monarchs, the English Civil War, the Restoration, and Glorious Revolution. Lecture 3 hours. Prerequisites: HIST 1113 and 1123 or permission of instructor.

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 1113.

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 1123.

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 1123.

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 1113 and HIST 1123.

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: HIST 1123.

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: Departmental approval. 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 permission of instructor.

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 permission of instructor.

HUMANITIES COURSES (HUM)**2113* HUMANITIES IN EARLY WESTERN CULTURE, 3 hours credit**

An interdisciplinary approach to art, music, history, philosophy, literature, and drama from the origins of Western Civilization through the Middle Ages. Lecture 3 hours.

2223* HUMANITIES IN MODERN WESTERN CULTURE, 3 hours credit

An interdisciplinary approach to art, music, history, philosophy, literature, and drama from the Renaissance to the present. Lecture 3 hours.

2413* HUMANITIES OF CANADA, 3 hours credit

An introduction to the geography, history, economics, politics, society, and culture of Canada. Lecture 3 hours.

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.

4511-3* SELECTED TOPICS IN THE GREAT PLAINS EXPERIENCE, 1-3 hours credit

Intensive independent reading and research on a specific topic in the Great Plains environment or culture, based on pre-approved outlines or plans, with regular conferences and with oral and written reports. The reading and research will be directed by a faculty member from the art, English, music, or history and humanities departments. Prerequisite: HUM 2513 or permission of instructor.

RELIGIOUS EDUCATION COURSES (REL ED)**1113* OLD TESTAMENT LITERATURE, 3 hours credit**

A survey course covering the Old Testament. Lecture 3 hours.

1123* NEW TESTAMENT LITERATURE, 3 hours credit

A study based upon the New Testament records and other related sources. Lecture 3 hours.

- * Liberal arts and sciences course.
- GR May be taken for graduate credit.

DEPARTMENT OF LANGUAGES AND COMMUNICATION

CHAIR - George Stanley, Professor

Associate Professors: Evers, Lubrano

Assistant Professor: Hernandez

Instructor: Honeycutt

Foreign Language/ESL Lab Director: Godlove

The Department of Languages and Communication offers two degree programs: the Bachelor of Arts with a major in Communications (in cooperation with the Department of Communications) and the Bachelor of Arts with a major in Romance Languages; courses to satisfy the requirements for minors in French, German, journalism, public relations, and Spanish; and instruction in Albanian, Catalan, Danish, Dutch, English as a second language, Italian, Latin, Norwegian, Portuguese, Romanian, Swedish, and translation-interpretation.

Journalism is the academic study concerned with the gathering, writing, editing, and publishing or disseminating of news, as through newspapers and magazines or by radio and television. The department provides courses in journalism that serve the needs of the general student as well as students specializing in the field. Students who concentrate in journalism can design their programs to prepare for graduate studies, for a career in print or broadcast journalism, or for a career in education.

The Romance languages share a common source: their development in each case may be traced back to Latin. Today, the modern descendants of Latin are Catalan, Dalmatian, Franco-Provençal, French, Italian, Occitan, Portuguese, Rhaeto-Romance, Romanian, Sardinian, and Spanish. Romance languages are spoken by many millions of people around the world. The department provides courses in several Romance languages that serve the needs of the general student as well as those specializing in the field. Students who concentrate in Romance languages can design their programs to be the focus of a broad and liberal education, to prepare for graduate studies in a particular Romance language and to become certified K-12 teachers in French and/or Spanish.

BACHELOR OF ARTS DEGREE MAJOR IN COMMUNICATIONS (140)

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

- II. MAJOR42 hours
All communications majors are required to keep a portfolio of their work.
(See advisor for details.)

Required Core Courses12 hours
R/TV 1013, JOURN 2113, COMM 3393, COMM 3383 or PUBREL 4223

Concentration30 hours
Majors must choose one or more of the following concentrations: Speech Communication, Radio/Television, Journalism, Public Relations and Organizational Communication.

Speech Communication (See Department of Communications for requirements.)

Radio/Television (See Department of Communications for requirements.)

Journalism

JOURN 3013, JOURN 3043, JOURN 3233, JOURN 3343, JOURN 4133, JOURN 4813

Electives (12 hours) may be chosen from the following courses or from courses in the areas of Speech Communication; Radio/Television; and Public Relations & Organizational Communication

JOURN 3122, JOURN 3131, COMM 3523, R/TV 3413, JOURN 4213, JOURN 4803, JOURN 4963, JOURN 4981-3

Public Relations and Organizational Communication

COMM 3383, or PUBREL 4223, JOURN 3013, JOURN 3043, COMM 3313, JOURN 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 Journalism

R/TV 2313, JOURN 3122, JOURN 3131, COMM 3353, COMM 3523, COMM 4633, COMM 4723, PUBREL 4823, PUBREL 4973

Students in Public Relations and Organizational Communication may select up to three hours of electives from the following:

MGMT 3013, MKTG 3413, MKTG 4433

- III. MINOR18 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.

**BACHELOR OF ARTS DEGREE
MAJOR IN ROMANCE LANGUAGES (185)**

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.
- II. MAJOR39 hours
(21 hours must be upper division)
- Spanish**18 or 12 hours
- French**18 or 12 hours
- Latin**6 hours
- Linguistics**3 hours
 ENGL 4613 English Linguistics
- III. MINOR18 hours
Romance Languages majors are strongly urged to consider English, German, Political Science, Economics, Marketing, or Management as minors.
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in French and Spanish. Degree requirements are not necessarily identical with certification requirements. Consult your departmental advisor for details about certification.

ALBANIAN COURSE (ALBAN)

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.

CATALAN COURSE (CATAL)

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 permission of the department.

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.

DUTCH COURSE (DUTCH)

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 1223 or equivalent.

3123* FRENCH CULTURE, 3 hours credit

A systematic review of French culture. Conducted in French. Lecture 3 hours. Prerequisite: FREN 1223 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 2123.

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 2123.

4113* L'HISTOIRE DE LA 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 1223 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.

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.

4153* INTENSIVE STUDIES IN ITALIAN, 3 hours credit

An intensive study of Italian, with the goal of reaching near-native fluency in reading and writing the language. Some conversational practice. Lecture 3 hours. Prerequisite: Study of another Romance language or permission of the department.

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 3 hours. Prerequisite: ITAL 1223 or equivalent.

JOURNALISM COURSES (JOURN)**2113* INTRODUCTION TO JOURNALISM, 3 hours credit**

A look at the various components of the mass communications industry, with special emphasis on the press's role in modern American society. Topic areas include books, newspapers, magazines and the broadcast media. Lecture 3 hours. Prerequisites: Completion of English Comp. I & II with grades of C or higher or permission of instructor.

3013 NEWS WRITING, 3 hours credit

A study of the techniques of obtaining news, including interviews. Concentrated efforts in actual writing of news stories with emphasis on interpretive and in-depth reporting. Lecture 2 hours, laboratory 2 hours. Prerequisite: JOURN 2113.

3043* PHOTOGRAPHY, 3 hours credit

A study of the principles of photography including shooting, developing, printing and composition with an emphasis on news techniques. Lecture 2 hours, laboratory 2 hours.

3122 YEARBOOK AND MAGAZINE PRODUCTION, 2 hours credit

Examination of yearbook and magazine production techniques. Concentrated study in layout and design, headlines, copy preparation, cutlines and typography. Practical application of techniques will be gained through work on student yearbook and magazine. Student must be enrolled concurrently in JOURN 3131 Yearbook Lab. Lecture 2 hours.

3131 YEARBOOK AND MAGAZINE LAB, 1 hour credit

Students who have taken JOURN 3122, Yearbook and Magazine Production, may repeat the lab a maximum of two semesters for a total of three hours credit. Laboratory 2 hours.

3233 NEWSPAPER PRODUCTION LAB, 3 hours credit

A laboratory for students to produce the campus newspaper. Laboratory 6 hours. Prerequisites: JOURN 3013.

3343 MEDIA GRAPHICS, 3 hours credit

Emphasizes techniques, processes and procedures for putting words and illustrations into print media, with emphasis on elements of effective design. Practical application of techniques will be gained through production work on the University's literary magazines, including Cameron Forum. Lecture 2 hours/laboratory 2 hours. Prerequisites: JOURN 2113.

4133 NEWS EDITING, 3 hours credit

Study of editing and makeup techniques required in newspaper and magazine fields. Lecture 3 hours. Prerequisite: JOURN 2113.

4213 PHOTOJOURNALISM, 3 hours credit

Advanced photography for newspapers and magazines. Lecture 3 hours. Prerequisite: 12 hours of journalism or permission of the instructor.

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: 12 hours of journalism or permission of the instructor.

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 STUDIES IN JOURNALISM, 1-3 hours credit

Directed study in selected areas of journalism. May be repeated to a maximum of 3 hours. Prerequisite: 12 hours of journalism or permission of instructor.

LATIN COURSES (LATIN)**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: Latin 1113 or equivalent.

LINGUISTICS COURSES (LING)**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 ENGL COMP, 3 hours foreign language or permission of instructor.

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.

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 Germanic 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 permission of the department.

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.

PUBLIC RELATIONS COURSES (PUB REL)

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. Lecture 3 hours. Prerequisite: Junior standing.

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: PUBREL 4223.

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.

ROMANIAN COURSES (ROMAN)

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 permission of the department.

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: ROMAN 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 Spanish 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 Spanish 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 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 or equivalent.

3133* SPANISH COMPOSITION, 3 hours credit

Cultivation of facility in writing Spanish. Planned and impromptu compositions. Lecture 3 hours. Prerequisite: SPAN 3123 or equivalent.

3143* SPANISH CONVERSATION, 3 hours credit

Improving accent and rapidity of speech through speeches, presentations, impromptu dialogues. Conducted in Spanish. Lecture 3 hours. Prerequisite: SPAN 3133 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 permission of the department.

* Liberal arts and sciences course.

DEPARTMENT OF MUSIC

CHAIR - Joseph Koob

Professor: J. Lambert

Associate Professors: E. Logan, V. Sircy

Assistant Professors: T. Crowley, G. Gillis, R. High, J. Moots, H. Whang

Instructors: B. Franklin, K. Underwood

The Department of Music offers a program leading to a Bachelor of Arts degree with a major in Music as well as a program leading to a Bachelor of Music degree with a major-minor in Music.

The music program at Cameron University emphasizes the development of musical knowledge and performance skills in all students. Specifically we are concerned with helping prepare music majors for professional careers as either music educators or performers, providing non-majors the opportunity to become acquainted with or improve their skills or knowledge in music, and to serve the University and area community with opportunities for performance, departmental concert offerings, or improvement in their own musical skills. The department provides courses which serve the needs of the general student as well as students majoring in music. A minor in music is also available for students interested in developing a secondary area of interest.

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 40 hours
MUS 1000 (7 semesters), Band/Choir/Accomp./Orch. (7 semesters), MUS 1413, MUS 1423, MUS 2312, MUS 2332, MUS 3313, MUS 3333, MUS 3513, MUS 3523, MUS 3612, Major Lesson Field 8 hours (minimum 2 hours at 4000 level), Minor Lesson Field 4 hours, Electives to total 40 hours in music
- III. MINOR 18 hours
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
All music majors (B.A. Degree) must pass a junior standing examination and a keyboard proficiency examination.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Music. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details.

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. MAJOR78 hours

Core Requirements (38 hours) MUS 1000 (7 semesters), Band/Choir/Accomp/Orch (7 semesters), MUS 1413, MUS 1423, MUS 2312, MUS 2321, MUS 2332, MUS 2341, MUS 3313, MUS 3321, MUS 3333, MUS 3341, MUS 3513, MUS 3523, MUS 3612, MUS 3622, MUS 4322, MUS 4332, MUS 4990

Concentration (40 hours) Select one of the following:

Concentration in Instrumental/Keyboard Music Education (Woodwind, Brass, Percussion, Strings) MUS 3642, MUS 3652, MUS 3662, MUS 3672, MUS 4343, MUS 4712, MUS 4722, Major Lesson Field (12 hours, minimum 4 hours at 4000 level), Piano (4 hours), Electives in Music

Concentration in Vocal Music Education/Keyboard Music Education MUS 4343, MUS 4712, MUS 4732, Vocal—MUS 3761 (3 semesters - each in a different language), Vocal-MUS 4753, Keyboard-MUS 4743, Major Lesson Field (12 hours, minimum 4 hours at 4000 level), Piano (vocal major) or Voice (piano major) 6 hours, Electives in Music

Concentration in Keyboard Performance MUS 4743, MUS 4343, MUS 3983, MUS 4312, Major Lesson Field (20 hours, minimum 10 hours at 4000 level), Minor Lesson Field (6 hours), MUS 3990, MUS 4981, Electives in Music

Concentration in Instrumental Performance (Woodwind, Brass, Percussion, Strings) MUS 4343, MUS 4312, Major Lesson Field (20 hours, minimum 10 hours at 4000 level), Piano (6 hours), Private Lessons in Secondary Instruments (6 hours), MUS 3990, MUS 4981, Electives in Music

Concentration in Vocal Performance MUS 4343, MUS 4312, MUS 4753, MUS 3761 (3 semesters - each in a different language), Major Lesson Field (20 hours, minimum 10 hours at 4000 level), Piano (6 hours), MUS 3990, MUS 4981, Electives in Music

Concentration in Composition MUS 4343, MUS 4312, MUS 3351 (8 hours), MUS 4351 (8 hours), MUS 4362, Private Lesson Piano (6 hours, minimum 2 hours at 4000 level), Minor Lesson Field (6 hours), MUS 3990, MUS 4981, Electives in Music

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 (MUSIC)

1000 CONCERT 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.

1111-2 BAND, 1-2 hours credit

Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit.

1121 ORCHESTRA, 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.

1131 JAZZ ENSEMBLE, 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.

1141-2 CHOIR, 1-2 hours credit

Performance ensemble open to all University students. Rehearsal 3-5 hours per week. Prerequisite: Permission of Director. May be repeated for credit.

1201 CLASS LESSONS, 1 hour credit

Class instruction in an orchestral instrument, keyboard or voice. 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.

2201-2 PRIVATE LESSONS, 1-2 hours credit

Private instruction in an orchestral instrument, keyboard or voice. 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: Departmental 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 MUS 2312 recommended.

2332* HARMONY AND STRUCTURE II, 2 hours credit

A continuation of MUSIC 2312. Lecture 1 hour/lab 2 hours. Prerequisite: MUS 2312.

2341* SIGHT-SINGING AND EAR TRAINING II, 1 hour credit

A continuation of MUS 2321. Lab 2 hours. Prerequisite: MUS 2321. Concurrent enrollment with MUS 2332 recommended.

3151 MUSIC THEATRE LABORATORY, 1 hour credit

The development of music theatre skills through the performance of one act operas and other small vocal works. Rehearsal 2-4 hours per week. Prerequisite: Departmental permission. May be repeated for credit.

3161 SMALL ENSEMBLE, 1 hour credit

Participation in instrumental, keyboard or vocal ensemble. Rehearsal 2-4 hours per week. Prerequisite: Departmental permission. May be repeated for 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: Departmental permission. May be repeated for credit.

3313* HARMONY AND STRUCTURE III, 3 hours credit

A continuation of MUS 2332. Lecture 3 hours. Prerequisite: MUS 2332.

3321* SIGHT-SINGING AND EAR TRAINING III, 1 hour credit

A continuation of MUS 2341. Lab 2 hours. Prerequisite: MUS 2341. Concurrent enrollment with MUS 3313 recommended.

3333* HARMONY AND STRUCTURE IV, 3 hours credit

A continuation of MUS 3313. Lecture 3 hours. Prerequisite: MUS 3313.

3341* SIGHT-SINGING AND EAR TRAINING IV, 1 hour credit

A continuation of MUS 3321. Lab 2 hours. Prerequisite: MUS 3321. Concurrent enrollment with MUS 3333 recommended.

3351-3 COMPOSITION, 1-3 hours credit

An exploration of various compositional styles and techniques. Taught on an independent study basis. Prerequisite: Departmental permission. 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: MUS 1413.

3523* MUSIC HISTORY II, 3 hours credit

A continuation of MUS 3513 from Classical through Contemporary music. Lecture 3 hours. Prerequisite: MUS 1413.

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: MUS 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. Basic concepts of playing and teaching string instruments; survey of methods, materials and field experiences. Lecture 1 hour/lab 2 hours.

3672 PERCUSSION METHODS, 2 hours credit

Study of fundamentals of all percussion instruments. Basic concepts of playing and teaching percussion 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.

3692 MUSIC METHODS FOR SPECIAL EDUCATION, 2 hours credit

The use of music to assist students with handicaps in the acquisition of basic learning skills. Lecture 2 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 or voice. 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.

3981-3 SEMINAR, 1-3 hours credit

A course designed to give students the opportunity to study a subject not covered in the regular course offerings or not covered in sufficient depth for their needs. Prerequisite: Departmental 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 Department Chairman.

4312* COUNTERPOINT, 2 hours credit

A study of Eighteenth Century species counterpoint through analysis and composition. Lecture 2 hours. Prerequisite: MUS 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: MUS 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: MUS 3333.

4343* ARRANGING, 3 hours credit

The study of the art of arranging for instrumental and vocal ensembles. Lecture 3 hours. Prerequisite: MUS 3333.

4351-3 COMPOSITION, 1-3 hours credit

An exploration of various compositional styles and techniques. Taught on an independent study basis. Prerequisite: Junior standing and departmental permission. May be repeated for credit.

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: Departmental permission.

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: Departmental permission.

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: Departmental permission.

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: Departmental permission.

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: Departmental 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: Departmental permission.

4801-4 PRIVATE LESSONS, 1-4 hours credit

Private instruction in an orchestral instrument, keyboard or voice. 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 and departmental permission. 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: Departmental 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 Department Chair.

*Liberal arts and sciences course.

DEPARTMENT OF POLITICS, SOCIOLOGY AND CRIMINAL JUSTICE

CHAIR - F.S. Meyers, Associate Professor

Professors: Atwater, Simpson

Associate Professors: Chenoweth, Methvin, Meyers, Youngblood

Assistant Professors: Holloway, Kervin, May, Bausch

Instructor: Knight

Pre-Law Advisors: Simpson, Youngblood

Peace Officer Certification Coordinator: May

The Department of Politics, Sociology and Criminal Justice offers programs leading to a Bachelor of Arts degree with a major in Political Science, 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 Canadian Studies, Philosophy, Corrections, Law Enforcement, Criminal Justice, Political Science, 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 PSCJ 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. Interested students may also enroll in the Collegiate Officer Program (COP) to obtain certification as an Oklahoma Peace Officer upon graduation with a Bachelor or Associate degree.

I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found in the red striped pages.

II. MAJOR42 hours

Required Core Courses27 hours
CJ 1013, CJ 1033, CJ 1113, CJ 2013, CJ 3003, CJ 3013, CJ 3023, CJ 3043*, CJ 4013
or CJ 4133

* With Advisor's approval POL SC 3813 may be substituted for CJ 3043.

Support Courses15 hours
Courses in Criminal Justice, Philosophy (PHIL 3013), Political Science, or Sociology;
at least nine of these hours must be in upper division Criminal Justice courses.

III. MINOR18 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 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, preparing for law school, or seeking secondary education certification in social studies.

I. GENERAL EDUCATION REQUIREMENT50 hours

General Education requirements are found on the red striped pages.

II. MAJOR36 hours

Completion of POL SC 1113 and POL SC 2113 or departmental permission is required for enrollment in Political Sciences classes numbered 3000 or above.

Required Courses6 hours

POL SC 2113, POL SC 3793

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: POL SC 2001-3 may be taken for a maximum of 6 hours)30 hours

Political Theory

POL SC 2001-3, POL SC 3613, POL SC 3623, POL SC 3633, POL SC 4491-3, POL SC 4591-3, POL SC 4673

Institutions and Processes

POL SC 2001-3, POL SC 2023, POL SC 3003, POL SC 3483, POL SC 3513, POL SC 3753, POL SC 3813, POL SC 4043, POL SC 4253, POL SC 4491-3, POL SC 4591-3

Politics and Behavior

POL SC 2001-3, POL SC 3013, POL SC 3023, POL SC 3043, POL SC 3113, POL SC 3713, POL SC 3723, POL SC 4491-3, POL SC 4591-3

International Relations

POL SC 2001-3, POL SC 3213, POL SC 3223, POL SC 4053, POL SC 4491-3, POL SC 4591-3

Comparative Government

POL SC 2001-3, POL SC 4013, POL SC 4023, POL SC 4033, POL SC 4063, POL SC 4491-3, POL SC 4591-3

NOTE: Students may take selected cognate courses with advisor approval to meet major requirements. Cognate courses used to fulfill Pol. Sci. Major requirements may not be used to meet Minor requirements.

III. MINOR18 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.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure certification in Social Studies. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

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 REQUIREMENT50 hours

General Education requirements are found on the red striped pages.

II. MAJOR36 hours

Required Courses15 hours

SOCI 1113, SOCI 2013, SOCI 2023, SOCI 2223, SOCI 3123

Electives21 hours

A minimum of 18 hours of these electives must be selected from Sociology classes numbered 3000 or above.

III. MINOR18 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.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Social Studies. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

ASSOCIATE DEGREE IN APPLIED SCIENCE 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. Interested students may also enroll in the Collegiate Officer Program (COP) to obtain certification as an Oklahoma Peace Officer upon graduation.

I. GENERAL EDUCATION REQUIREMENT 24 hours

Required Courses 18 hours

ENGL 1113, ENGL 1213, COMM 1113, POL SC 1113, HIST 1483 or HIST 1493,
SOCI 1113 or PSYCH 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.

II. MAJOR 33 hours

Required Courses 15 hours

CJ 1013, CJ 1023, CJ 1033, CJ 1113, CJ 2013

Electives 18 hours

Select either Group A or Group B with the appropriate Support Courses.

Group A: (Law Enforcement) Select at least 12 hours from the following courses:

LE 2003, LE 2033, LE 2043, LE 2053, LE 2064

Support courses for Group A: Select 6 hours from the following courses:

CORR 2043, CORR 2053, CORR 2063, CJ 2001-3

Group B: (Corrections) Select 12 hours from the following courses:

CORR 2003, CORR 2033, CORR 2043, CORR 2053, CORR 2063

Support courses for Group B: Select 6 hours from the following courses:

LE 2003, LE 2043, LE 2053, LE 2064, CJ 2001-3

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

IV. Required assessment exam taken prior to graduation.

ANTHROPOLOGY COURSES (ANTH)

1113* INTRODUCTION TO ANTHROPOLOGY, 3 hours credit

A general introduction to the principles of physical and socio-cultural anthropology. Topics to be covered include an analysis of human evolution, origins of agriculture and civilization, existing pre-industrialized and industrialized peoples, and the institutions of the family and kinship, religion, economics, government, and education. Lecture 3 hours.

3023* 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 1113 or SOCI 1113.

4493* SELECTED TOPICS IN ANTHROPOLOGY, 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: Junior 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, 1113, 1033, and PSYCH 1113.

2033 CORRECTIONAL INSTITUTIONS AS A SOCIAL SYSTEM, 3 hours credit

The study of social systems within correctional institutions. The effect of deprivation of liberty, heterosexual relationships, autonomy, security. Cultures and subcultures as a response to imprisonment. Lecture 3 hours. Prerequisites: CJ 1013 and 1113.

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. Prerequisite: CJ 1013, 1113 and PSYCH 1113.

2053 PROBATION AND PAROLE, 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.

2063 MANAGEMENT OF CORRECTIONAL INSTITUTIONS, 3 hours credit

Problems of management of the correctional process. Includes security, information systems, case management, evaluation of progress, custody and discipline as related to rehabilitative efforts, problems of recidivism and the condemned, education and training in rehabilitative programs. Lecture 3 hours.

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 criminal law. The administration of justice as it exists in the municipality under state statutes. The rights and privileges of the accused and the jurisdiction of violators. Lecture 3 hours. Prerequisites: CJ 1013 or concurrent enrollment.

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.

2001-3 SPECIAL PROBLEMS IN CRIMINAL JUSTICE, Up to 3 hours credit

An analysis of a selected problem or special topic in criminal justice, corrections and/or law enforcement. May be repeated, with different topics, for a total of 6 hours credit. Prerequisites: Sophomore standing and departmental permission.

2013 LEGAL PROCEDURES IN CRIMINAL AND CIVIL LAW, 3 hours credit

Organization and jurisdiction of state, federal and municipal courts. Procedures for commencing civil litigation and criminal trial procedures. Lecture 3 hours. Prerequisites: POL SCI 1113, CJ 1013, CJ 1033.

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, 1033, and 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, 1033 and 2013.

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. Lecture 3 hours. Prerequisite: 12 hours of CJ or department permission.

3043* CONSTITUTIONAL PROCEDURES IN CRIMINAL JUSTICE, 3 hours credit

An examination of constitutional case law as decided by the U.S. Supreme Court. Focus is on the criminal justice system and its relation to government powers and citizen's constitutional rights. Lecture 3 hours. Prerequisites: CJ 1013, 1033 and 2013.

3053 INDUSTRIAL AND RETAIL SECURITY, 3 hours credit

Managerial aspects of the security field in public and private sectors; topics addressed include health services, computer and transportation programs. Emphasis on the implementation of loss prevention programs. Lecture 3 hours. Prerequisites: CJ 1013, 1033 and LE 2003.

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's permission.

4013* CRIMINAL JUSTICE PLANNING, 3 hours credit

A systematic approach to planning, organizing, budgeting and implementing a criminal justice system. Includes evaluation and validation. Lecture 3 hours. Prerequisite: 18 hours of CJ or department 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.

4103 STRESS MANAGEMENT IN CRIMINAL JUSTICE OCCUPATIONS, 3 hours credit

A study of stress and related issues in the criminal justice profession, with a focus on the definition, causes, costs and prevention/treatment of stress and related phenomena. Development of human relations skills used in coping with stress in order to improve personal and criminal justice agency effectiveness. Lecture 3 hours. Prerequisite: CJ 1013 or junior standing or department permission.

4133* CRIMINAL JUSTICE ADMINISTRATION, 3 hours credit

Organization, administration and supervision of criminal justice agencies. An evaluation of personnel policies, management styles, administrative concepts, public relations, organization theory and budgeting in the law enforcement, judicial, and corrections agency. Lecture 3 hours. Prerequisite: CJ 1013 or POL SC 3713 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: CJ 1013 or 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, POL SC 1113, and junior standing.

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 SYSTEMS, 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, 1113 and 1033.

2033 POLICE PATROL AND TRAFFIC FUNCTIONS, 3 hours credit

The role and responsibilities of the police patrol emphasizing the enforcement of laws, traffic regulations and defensive driving. Lecture 3 hours. Prerequisites: CJ 1013, 1033 and 1113.

2043 INTRODUCTION TO POLYGRAPH SCIENCE, 3 hours credit

The history and theory of the science of polygraph. The judicial treatment of polygraph evidence; legislative regulations concerning polygraph examiners; and polygraph examiner qualifications. Lecture 3 hours. Prerequisites: CJ 1013, 1113, and 1033.

2053 METHODS OF INVESTIGATION, 3 hours credit

Methods of gathering facts relative to criminal and civil laws, juvenile procedures, legal research, pre-sentence and other related situations requiring investigative skills. Lecture 3 hours. Prerequisites: CJ 1013 and 1033.

2064 CRIMINALISTICS, 4 hours credit

The investigation of crime, showing the relationship between the crime scene, forensic science and the preparation of evidence for legal presentation into a court of law. Emphasis is placed on the collection, identification, and processing of physical evidence. Lecture 2 hours, laboratory 2 hours. Prerequisite: LE 2053 or concurrent enrollment.

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 2213 or permission of instructor.

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 permission of instructor.

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's permission.

POLITICAL SCIENCE COURSES (POL SC)

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, 3 hours credit

An analysis of a selected problem or special topic in government, criminal justice, corrections, and/or law enforcement. May be repeated, with different topics, for a total of 6 hours credit. Prerequisites: Sophomore standing and departmental 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.

Completion of Political Science 1113 and Political Science 2113 (or permission of the Department) is required for enrollment in Political Science classes numbered 3000 or above.

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, INTEREST GROUPS, AND VOTING BEHAVIOR, 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* POLITICS AND THE CINEMA, 3 hours credit

A review of the outstanding political films of our time, an in depth analysis of the themes and issues developed in these films, and a bibliographic review of material relating to the film and political issues. Such films as "Gandhi", "Citizen Kane", and "All the King's Men" will be examined. Lecture 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 LAW AND 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.

3483* THE NORTH AMERICAN EXECUTIVE, 3 hours credit

A comprehensive study of the Presidency and Prime Minister of Canada with emphasis on the development of the power, influence, philosophy and personalities of the office. The course will also compare the office of the Presidency with the office of governor in the various states and the Canadian Prime Minister. 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* EARLY POLITICAL THOUGHT, 3 hours credit

Political thought in ancient Greece, ancient Rome and the Middle Ages. Close study of texts by thinkers such as Plato, Aristotle, Cicero, and Aquinas. 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.

3713* 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.

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: POL SC major, junior standing, and instructor's permission.

3753* AMERICAN CONSTITUTIONAL LAW: THE DIVISION OF GOVERNMENTAL POWERS, 3 hours credit

Development of principles of constitutional law by the Supreme Court concerning federalism and separation of powers with particular emphasis on political and doctrinal developments surrounding judicial review, regulation of commerce, taxing and spending, and Presidential power. Lecture 3 hours.

3793* RESEARCH METHODS IN POLITICAL SCIENCE, 3 hours credit

The study and application of research methods in political science. The course will include an overview of research designs, the organization and preparation of research papers, and trends in research. Lecture 3 hours.

3813* AMERICAN CONSTITUTIONAL LAW: CIVIL LIBERTIES, 3 hours credit

Development of principles of constitutional law by the Supreme Court concerning individual liberties with particular emphasis on political and doctrinal developments surrounding the First Amendment privacy, defendants rights and Fourteenth Amendment due process and equality concepts. Lecture 3 hours.

4013* COMPARATIVE GOVERNMENT, 3 hours credit

A comparative study of modern political institutions and processes, with particular attention to Canadian and European political systems. Lecture 3 hours.

4023* THE 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.

4033* GOVERNMENT AND POLITICS IN THE FORMER SOVIET UNION, 3 hours credit

The fall of Soviet Communism; developing governmental and political institutions in the former Slavic and non-Slavic republics; cultural, ethnic, economic and political dilemmas within the newly independent states; international and interethnic relation within the Confederation of Independent States; foreign affairs of the CIS, Russia and the remaining former republics. Lecture 3 hours.

4053* PROBLEMS OF AMERICAN OR CANADIAN FOREIGN POLICY, 3 hours credit

A survey of American or Canadian policies with regard to current international conflicts and problems, with a descriptive analysis of the manner in which these courses or actions are determined and carried out and an intensive examination of major alternatives to the existing policies. Lecture 3 hours.

4063* CANADIAN GOVERNMENT AND POLITICS, 3 hours credit

A study of the Canadian governmental system. The course includes an analysis of Canadian confederation and federalism, the parliamentary system, public policy formation, Crown Corporations, political parties, interest groups, and elections. 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 different topic, 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: POL SC major, junior standing, and instructor's permission.

4673* CONTEMPORARY POLITICAL THOUGHT, 3 hours credit

Normative political theory in the twentieth century. Intensive study of recent work on topics such as liberty, equality, justice, and democracy. Lecture 3 hours.

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.

3003* DEVIANT BEHAVIOR, 3 hours credit

An in-depth study of current sociological theories of deviant behavior. Lecture 3 hours. Prerequisite: SOCI 1113.

3013* RACIAL AND CULTURAL MINORITIES, 3 hours credit

Investigation of the sociological processes of a racially and culturally heterogeneous society; migration, accommodation, assimilation, amalgamation, segregation, pluralism. Lecture 3 hours. Prerequisite: SOCI 1113 or 2023.

3113* DEVELOPMENT OF SOCIOLOGICAL THOUGHT, 3 hours credit

An inquiry into the historical origins of contemporary sociological theories, ranging from the classical Greek period to the present, but with special attention to the works of Auguste Comte. Lecture 3 hours. Prerequisite: SOCI 1113 or PHIL 1113.

3123* CONTEMPORARY SOCIOLOGICAL THEORY, 3 hours credit

Survey of contemporary sociological theories of society, including symbolic interactionism, communication theory, systems theory, ethnomethodology, mathematical theories, power theories, etc. 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.

3333* 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.

3343* POLITICAL SOCIOLOGY, 3 hours credit

A study of man's social environment as it relates to and interacts with man's political world. Included is consideration of the sociological influences on man's political behavior in the following areas: (a) power distribution on the national, state and local levels; (b) public opinion, voting behavior, and political participation; (c) interest group formation and structure; (d) the forces of political change and ideological movements; and (e) the legal-institutional level of political decision making. Lecture 3 hours. Prerequisite: SOCI 1113 or POL SC 1113 or 3023.

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.

3383* INDUSTRIAL SOCIOLOGY, 3 hours credit

A study of the impact of technology on social organization. An investigation of industrial and other work settings, formal and informal organization, work alienation and alternative proposals to the routinization of work. 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.

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

An introduction to the Social Welfare institution and the purposes, concepts, methods, and theories used in the delivery of Human Services. Lecture 3 hours. Prerequisites: SOCI 1113 and 2023.

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: PSYCH 1113 or SOCI 2023.

4003* CRIMINOLOGY, 3 hours credit

Current social research and theory dealing with crime, and society. Lecture 3 hours. Prerequisite: SOCI 2023 or permission of the department.

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.

4023-6 FIELD PRACTICUM, 3-6 hours credit

Practicum and experiences in community based social and political service agencies and programs; including coursework dealing with career preparation. Lecture 1-2 hours, practicum experience 4-8 hours. Maximum credit for Practicum: 6 hours. Prerequisite: Permission of instructor.

4033* SOCIO-LEGAL ASPECTS OF THE FAMILY, 3 hours credit

A para-professional approach to family law, covering the following areas: marrying, procreation, divorce, neglect and abuse, adoption, parent and children's rights. The court systems involved with families will also be discussed. Lecture 3 hours.

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.

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 FAM SC 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 permission of department.

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 permission of the instructor.

* Liberal arts and sciences course.

DEPARTMENT OF THEATRE ARTS

CHAIR - Scott Richard Klein, Assistant Professor

Professor: Fennema

Assistant Professors: Ayres, Hofmann

The Department of Theatre Arts offers a program leading to a Bachelor of Arts degree with a major/minor in Theatre.

The Theatre Arts Department has committed itself to a dual focus: 1) to provide an opportunity for personal and artistic development and growth within a liberal arts atmosphere, 2) to offer its majors opportunity to develop collaboration, communication, reasoning, and leadership skills needed for a professional career in theatre and/or related areas.

Working within the philosophy of a liberal arts format, the department feels its students should achieve a level of competence in all areas of the theatre including performance, technical theatre and the academic areas of theatre history, literature and criticism/analysis. We provide these opportunities to the campus through our course offerings and our production program. Our course offerings include theory, history, criticism and practical foundations in all areas of the theatre while our active production program allows the student to use and put into practice the ideas presented in the classroom. We encourage and attempt to stimulate campus-wide, cross-disciplinary growth. In support of Cameron's "interactive mission," the department's production program serves our students and the Lawton-Fort Sill community.

BACHELOR OF ARTS DEGREE MAJOR/MINOR IN THEATRE (170)

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.
- II. MAJOR56 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 OPTION15 hours
THTR 2203, THTR 2503, THTR 3303, THTR 1503 or THTR 3703, and either
THTR 4203, THTR 4303, or THTR 4503

Electives in Theatre6 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.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Speech/Drama. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

FINE ARTS COURSE (FN ART)

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/Laboratory 2 hours. Prerequisite: THTR 1103 or permission of instructor.

3303* 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/Laboratory 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.

SCHOOL OF SCIENCE AND TECHNOLOGY

David H. O'Keeffe, Dean
Professor of Chemistry

Department of Agriculture	Al Bennett, Chair
Department of Biological Science	David Groves, Chair
Department of Mathematical Science	Caroll Riecke, Chair
Department of Military Science	LTC Thomas Mayock, Chair
Department of Nursing	Lynn Barnhart, Chair
Department of Physical Science	Theodore Snider, Chair
Department of Technology	Tom Russell, Chair

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, nursing, mathematics 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, medical technology, mathematics, computer science, chemistry, natural science, physics, communications electronic systems, computer information systems, engineering design and technology. Associate of applied science degrees are provided in data processing, computer aided design drafting, nursing, and telecommunications electronics. Programs leading to teacher licensure/ certification are offered in science (biology, chemistry, natural science, physics) 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 - A. C. (Al) Bennett, Professor

Associate Professors: Hagee, Fischer

Assistant Professor: Kennedy

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, Environmental Science or Ornamental Horticulture. Majors may also elect the Agricultural Business Management option with any concentration. 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 National 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, plant nursery businesses, and landscape maintenance firms. 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 sciences.

BACHELOR OF SCIENCE DEGREE MAJOR IN AGRICULTURE (400)

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

II. MAJOR 38 hours

Core Courses21 hours
AGRIC 1124, AGRIC 1214, AGRIC 1334, AG MEC 1413, AGRIC 2124, AGRIC 4423, AGRIC 4572

Required Support Courses10 hours
CHEM 1364, CHEM 1361, CHEM 1474, CHEM 1471

Concentration14 hours
Majors must select at least 14 hours from one of the following concentrations.

Animal Science

ANIM S 3102, ANIM S 3112, ANIM S 3133, ANIM S 3653, ANIM S 4113,
ANIM S 4123, ANIM S 4133, ANIM S 4333, ANIM S 4423, ANIM S 4434

Agronomy

AGRON 3213, AGRON 3312, AGRON 3434, AGRON 3513, AGRON 3683, AGRON 4123, AGRON 4223, AGRON 4234, AGRON 4673, Selected Electives (5 hours) must be approved by Academic Advisor

Horticulture

HORT 2102*, HORT 3115, HORT 3213, HORT 4204, HORT 4313, HORT 4413, HORT 4453

Agriculture Mechanization

AG MEC 3123, AG MEC 3223, AG MEC 3152, AG MEC 3172, AG MEC 4203, AG MEC 4702, AG MEC 4802

Environmental Science Option

Required Courses: ENV SC 2004, CHEM 2113, CHEM 3333, BIOL 2124, AGRON 3434, AGRON 3683, AGRON 4223

Agricultural Business Management Option

Choose concentration from above.

Required Courses: AGRIC 3003, AGRIC 3413, ACCTG 2013, BUS 3213, MGMT 3013, MKTG 3413

Electives: Choose 9 hours from the following: FIN 3313, FIN 2643, FIN 2813, FIN 3603, FIN 3623, MKTG 3433, MKTG 3533, other courses approved by the Chair.

No minor is required for either the Environmental Science option or the Agriculture Business Management option.

* Course required; choose 14 additional hours of 3000 or 4000 level HORT courses.

III. MINOR 18 hours

IV. ELECTIVES TO COMPLETE 128 SEMESTER HOURS REQUIRED FOR GRADUATION.

AGRICULTURE COURSES (AGRIC)

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 are related 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, soil productivity and land use. Lecture 3 hours, laboratory 2 hours. Prerequisite: CHEM 1225 or 1474 or equivalent.

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: AGRIC 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: AGRIC 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: AGRIC 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. Prerequisites: Senior standing and departmental approval.

4423 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. Prerequisite: Junior Standing.

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 (AG MEC)**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 1213 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 1213 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 to pumping plants and power units. Layout and management of irrigation systems. Lecture 2 hours, laboratory 2 hours. Prerequisites: MATH 1213 or equivalent and AG MEC 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: AG MEC 4702.

AGRONOMY COURSES (AGRON)**3213 FORAGE, RANGE, AND PASTURE CROPS, 3 hours credit**

Principles of production management, utilization, and improvement of forages for livestock. Lecture 3 hours. Prerequisites: AGRIC 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, implement calibration, and field research techniques. Laboratory 4 hours. Prerequisites: Concurrent enrollment in AGRON 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: AGRIC 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: AGRIC 1214 and Junior standing.

3683 SOIL PHYSICAL PROPERTIES, MANAGEMENT, AND CONSERVATION, 3 hours credit

Identification, description, maintenance and management of soil physical properties that affect plant growth. Management and conservation of soil resources. Lecture 2 hours, laboratory 2 hours. Prerequisite: AGRIC 2124.

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: AGRIC 1214 or BOT 1114.

4223 PESTICIDES, 3 hours credit

Identification, distribution, characteristics, and methods of controlling pests. Lecture 3 hours. Prerequisites: CHEM 3345 and BIOL 3024.

4234* 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: AGRIC 2124 and Junior standing.

4673 GRAIN CROPS, 3 hours credit

Principles of grain crop production, classification, and improvement. Lecture 3 hours. Prerequisites: AGRIC 1214 and Junior standing.

ANIMAL SCIENCE COURSES (ANIM S)**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 Animal Science 3102. Laboratory 4 hours. Prerequisite: ANIM S 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: AGRIC 1124.

3653 APPLIED NUTRITION, 3 hours credit

Composition, characteristics and nutritive value of feeds 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: CHEM 3345 and AGRIC 1123.

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 S 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. Prerequisite: ANIM S 3653, 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 S 3653, and 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 3345 and 4 hours biological science.

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: AGRI 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. Prerequisites: AGRIC 1124 and Junior standing.

EARTH SCIENCE COURSE (EASCI)**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 (ENVSCI)**2004 INTRODUCTION TO ENVIRONMENTAL SCIENCE, 4 hours credit**

A survey of factors influencing the environment with emphasis on proliferation and activities of mankind; impact on the atmosphere, soil, oceans, and other life forms. Lecture 3 hours, laboratory 2 hours.

HORTICULTURE COURSES (HORT)**2102 HORTICULTURAL SCIENCE, 2 hours credit**

Study of the science and practices underlying the occupational areas in horticulture, including a survey of structures, equipment, growing media, production techniques, and marketing techniques which relate to the specialized career areas in the horticulture industry. Lecture 2 hours. Prerequisite: BOT 1114.

3115 IDENTIFICATION AND USE OF ORNAMENTAL PLANTS, 5 hours credit

An indepth study of the landscape uses and characteristics of trees, shrubs, vines, and ground covers. Emphasis on identification, ornamental value, growth habits, landscape uses and limitations of various plants. Identification and uses of some herbaceous and exotic plants will be included. Lecture 3 hours, laboratory 4 hours. Prerequisites: BOT 1114 and HORT 2102.

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. Prerequisites: AGRIC 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. Prerequisites: HORT 3213 and HORT 2102.

4413 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. Prerequisites: HORT 3213, 3112, and AGRIC 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. Prerequisites: HORT 3112, AG MECH 2002, and DRAFT 1013.

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. Prerequisites: HORT 2102 and AGRIC 2124.

* Liberal arts and sciences course.

DEPARTMENT OF BIOLOGICAL SCIENCES

CHAIR - David L. Groves, Professor

Professors: Cooper, Epperson, Netherland, Tyler

Assistant Professors: Tauer, Ziegler

The study of biology provides an understanding of living things in the world around us. Biologists examine life at the ecosystem, population, organismal, cellular, and molecular levels in their development of an understanding of the mechanisms involved, their evolution, and their interrelationships. The department offers the Bachelor of Science Degree in *biology* and in *medical technology*.

BACHELOR OF SCIENCE DEGREE MAJOR IN BIOLOGY (310)

There are five areas of concentration within the biology program. The **biology** concentration offers a broad introduction to the field without specialization in a particular area. This area of concentration is designed for individuals with a wide interest in biology such as those wishing to become licensed/certified high school biology teachers*. Concentrations in **zoology** or **botany** focus on animal and plant biology, respectively. These field-oriented areas are also for individuals interested in wildlife management, ecology, the environment, and related fields. The **cellular/molecular biology** concentration provides introduction to these exciting areas of modern biology and their importance in many facets of biological and biomedical research. The **professional** concentration is for those interested in attending a professional school upon completion of their bachelors program. This includes would-be physicians and dentists, veterinarians, and those interested in research careers in the biomedical sciences. All areas of concentration prepare the student for entry into masters and doctoral graduate programs throughout the country.

Biology is also an appropriate major for those interested in allied health areas such as physical therapy, occupational therapy, physician assistant programs, etc. While these programs must be pursued elsewhere, Cameron University can provide the prerequisite course work.

*Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

II. MAJOR 44 hours

Required Courses (all areas of concentration)20 hours
BIOL 1364, BIOL 1474, BIOL 2144, BIOL 2154, BIOL 3014

Biology Concentration

Requisites12 hours
BIOL 3054 or BIOL 3074, BIOL 3064, BIOL 3154

Botany Concentration

Requisites12 hours
 BIOL 3054 or BIOL 4054, BIOL 3154 or BIOL 4163, BIOL 3064

Zoology Concentration

Requisites12 hours
 BIOL 3024 or BIOL 3134, BIOL 3074, BIOL 4004

Cell/Molecular Concentration

Requisites12 hours
 BIOL 3154, BIOL 3174, BIOL 4174

Professional Concentration

Requisites12 hours
 BIOL 3034 or BIOL 3094 or BIOL 3124, BIOL 3154, BIOL 4004

Electives (all areas of concentration)12 hours
 Biological Science electives to complete the major.

III. MINOR 18 hours

IV. ADDITIONAL REQUIREMENTS**Biology Major**

MATH 1513 and 1613 (high school trigonometry course may substitute for MATH 1613)
 CHEM 1015 (or 1364/1361) and 1225 (or 1474/1471)
 CHEM 3314 and 3324
 PHYS 1115 (or 2015) and 1215 (or 2025)

Required for Teacher Certification

CHEM 1015 (or 1364/1361) and 1225 (or 1474/1471), BIOL 2034 or BIOL 2134 or BIOL 4004,
 GEOL 1015 or 1024 or EASCI 1135, PHYS 1115 and 1215

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

BACHELOR OF SCIENCE DEGREE MAJOR IN MEDICAL TECHNOLOGY (570)

Medical technologists work primarily in hospital laboratories (clinical chemistry, microbiology, blood banking, immunology, etc.). The bachelors 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 REQUIREMENT50 hours
 General Education requirements are found on the red striped pages.

II. MAJOR 78 hours

Required Courses68 hours

Biology20 hours
 BIOL 1474, BIOL 3014, BIOL 3094, BIOL 3154, BIOL 4004

Chemistry18 hours
 CHEM 1225 or CHEM 1474/1471, CHEM 2113, CHEM 2232, CHEM 3314,
 CHEM 3324

Medical Technology30 hours
 MEDTECH 4117, MEDTECH 4125, MEDTECH 4236, MEDTECH 4246,
 MEDTECH 4325, MEDTECH 4351

Electives10 hours
 Electives must be selected and advisor approved from BIOL, CHEM, MATH, and/or
 PHYSICS.

III. ADDITIONAL REQUIREMENTS

BIOL 1364, CHEM 1364/1361 (or 1015), MATH 1513

BIOLOGY COURSES (BIOL)

1005* GENERAL BIOLOGY, 5 hours credit

Laboratory-centered course offered each semester. One-cell animals to complex animals, including man; one-cell plant to multicellular plants. The economic value of the study of the biological world as it pertains to man, his problems, his progress as well as his place in society is a foremost factor in this course. Not applicable to Biology or Medical Technology major or minor. Lecture and laboratory 5 hours.

1114* GENERAL BOTANY, 4 hours credit

An introduction to the structure, life processes and reproduction of the seed-bearing plants and their relation to the environment. Lecture 3 hours, laboratory 2 hours. Not applicable to Biology or Medical Technology major or minor.

1124* GENERAL ZOOLOGY, 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.

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 3 hours.

1474* PRINCIPLES OF BIOLOGY II, 4 hours credit

A continuation of BIOL 1364. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1364.

2024* COMPARATIVE VERTEBRATE ANATOMY, 4 hours credit

Morphological comparisons of the vertebrate classes with emphasis on evolutionary relationships of major systems. The course will fulfill the needs of preprofessionals and biology majors. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474 or equivalent.

2034* HUMAN ANATOMY, 4 hours credit

Introductory anatomy with emphasis on histology and human gross anatomy. Lecture 3 hours, laboratory 3 hours. Prerequisite: departmental permission. Not applicable to Biology or Medical Technology major or minor. Will not satisfy General Education requirements.

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. Prerequisites: 8 hours of Biological Science.

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 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. Not applicable to Biology or Medical Technology major or minor. Will not satisfy General Education requirements.

2134* HUMAN PHYSIOLOGY, 4 hours credit

Fundamental concepts and principles which serve as a foundation for understanding human physiology. Information which complements clinical aspects of medically related areas. Laboratory experiences which demonstrate physiological functions. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 2034 or departmental permission. Not applicable to Biology or Medical Technology major or minor. Will not satisfy General Education 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 or equivalent.

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 or equivalent.

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.

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. Prerequisite: 12 hours of Biological Science or departmental permission.

3024* ENTOMOLOGY, 4 hours credit

Structure, life history, and recognition of common insects. Lecture 3 hours, laboratory 3 hours, field trips. Prerequisite: BIOL 1474 or equivalent/departmental permission.

3034* EMBRYOLOGY, 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. Prerequisite: BIOL 1474 or equivalent.

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 3014.

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 1474 or equivalent.

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. Prerequisites: BIOL 1474 or equivalent.

3074* NATURAL HISTORY OF THE VERTEBRATES, 4 hours credit

Ecology, taxonomy and life histories of vertebrates. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: BIOL 1474 or equivalent.

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 1474 or equivalent.

3094* IMMUNOLOGY, 4 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, laboratory 3 hours. Prerequisites: BIOL 3014 and CHEM 1225.

3104 LABORATORY AND FIELD BIOLOGY FOR ELEMENTARY TEACHERS, 4 hours credit

Designed for elementary education majors. Emphasis on biology as a science and application to local organisms. Lecture, discussion, experiments, laboratory and local field trips. Not available to biology majors. Prerequisite: One course in Biological Science.

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 1474 or equivalent.

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 1474 or equivalent. BIOL 2024 is recommended.

3134* INVERTEBRATE ZOOLOGY, 4 hours credit

Morphology, taxonomy, natural history, and evolutionary relationships of the invertebrates. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474 or equivalent.

3154* PRINCIPLES OF MICROBIOLOGY, 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 1474 and CHEM 1225 or 1474, or equivalents.

3174* 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 1474 and CHEM 1225 or 1474, or equivalents.

4004* PHYSIOLOGY, 4 hours credit

General Physiology. Homeostatic mechanisms of organ systems including cellular respiration and energy transfer. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 1474 and CHEM 3324, or equivalents. CHEM 4403 is recommended.

4014* HERPETOLOGY, 4 hours credit

Taxonomy, distribution, natural history of amphibians and reptiles with emphasis on local forms. Techniques of collection and preservation. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: BIOL 1474 or equivalent.

4024* ICHTHYOLOGY, 4 hours credit

Taxonomy, morphology and ecology of fishes, with emphasis on those of the area. Field trips. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIOL 1474 or equivalent.

4054* VASCULAR AQUATIC PLANTS, 4 hours credit

Taxonomy and ecology of the fresh water vascular plants. Lecture 3 hours, laboratory 3 hours and field trips. Prerequisite: BIOL 1474 or equivalent.

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* COMPARATIVE ETHOLOGY, 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 1474 or equivalent.

4094* LIMNOLOGY, 4 hours credit

An introduction to the biological, chemical, and physical features of freshwater lakes, ponds, and streams, with emphasis on methods. Lecture 3 hours, laboratory 3 hours, field trips. Prerequisites: CHEM 1015 and BIOL 1474 or equivalents.

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: 8 hours of Biological Science.

4114* MEDICAL MICROBIOLOGY, 4 hours credit

Host-parasite relationships of medical importance and the principles of infection and immunity with special emphasis on the isolation and identification of pathogenic bacteria. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3154 and 3094, or equivalents.

4121-4 SPECIAL STUDIES, 1-4 hours credit

Term paper and oral examination required. Laboratory may be required. Prerequisite: 8 hours of Biological Science.

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: 16 hours of Biological Sciences and MATH 1513.

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 AGRON 4123. Prerequisite: AGRIC 1214 or BIOL 1474 or equivalent.

4174* MOLECULAR BIOLOGY, 4 hours credit

Emphasis is on the informational macromolecules (nucleic acids and proteins) associated with life processes, including their synthesis, genetics, regulation, and mechanism of action. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIOL 3014 and 3174 and CHEM 3324. CHEM 4413 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.

4881 SENIOR SEMINAR, 1 hour credit

A general seminar course for biology majors. May be repeated for a maximum of 2 credit hours. Prerequisite: Departmental 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. Departmental 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. Departmental permission required. Lecture/laboratory.

4236 CLINICAL HEMATOLOGY, 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. Departmental permission required. Lecture/ laboratory.

4246 CLINICAL IMMUNOLOGY, 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. Departmental 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. Departmental 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. Departmental permission required. Lecture/laboratory.

* Liberal arts and sciences course.

DEPARTMENT OF MATHEMATICAL SCIENCES

CHAIR - Caroll Riecke, Professor

Professors: Argyros, George, Hajek, Huckabay, T. McKellips, Morris, Tabatabai

Associate Professors: Moinian, Jankovic

Assistant Professors: Gary, Morton, Williams

Instructor: Goos

The Department of Mathematical Sciences offers programs in mathematics, one of the oldest academic disciplines, as well as in statistics and computer science, two of the newer disciplines. The Department offers programs leading to a Bachelor of Arts degree with a major in Mathematics and a Bachelor of Science degree with a major in Computer Science. Minors are also offered in mathematics, computer science, and statistics.

The areas of mathematics, statistics, and computer science are closely interrelated. Mathematics, more an art than a science, is at its core concerned with abstract reasoning. In recent years it has found a plethora of new applications in decision theory, game theory, and computer science. Statistics is instrumental in the study of the behavioral and social sciences; the biological and physical sciences; and business. Computer science studies algorithms and discrete methods and has applications in almost every subject. Without mathematics, statistics, and computer science, a technologically advanced society could not exist.

BACHELOR OF ARTS DEGREE MAJOR IN MATHEMATICS (150)

- I. GENERAL EDUCATION REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

- II. MAJORMinimum of 35 hours

Required Courses29-35 hours

MATH 1715 or MATH 1513 (Not required if equivalent courses were taken in high school.), MATH 1613, MATH 2215, MATH 2235, MATH 2244, MATH 2613, MATH 3013, MATH 3213, MATH 3253, MATH 4483

Electives6 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 3013, STAT 3023, STAT 3113, STAT 3123, STAT 3202

Computer Science

CS 3343, CS 3443

- III. ADDITIONAL REQUIREMENTS4 hours
 A student majoring in mathematics must complete the following:
 CS 1301 and CS 1313
- IV. MINOR18 hours
- V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Mathematics. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

BACHELOR OF SCIENCE DEGREE MAJOR IN COMPUTER SCIENCE (415)

- I. GENERAL EDUCATION REQUIREMENT50 hours
 General Education requirements are found on the red striped pages.
- II. MAJORMinimum 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 4001-3*
 *No more than 2 hours at each level.
- Electives**3 hours
 CS 3343, CS 3443, CS 3573, CS 4013, CS 4223
- III. ADDITIONAL REQUIREMENTS16 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 0213 Intermediate Algebra, MATH 1513 College Algebra, MATH 1613 Plane Trigonometry and MATH 1715 College Algebra and Trigonometry as prerequisites.
 MATH 2215, MATH 2235, MATH 4433, STAT 3013
- IV. MINOR18 hours
 (A minor in mathematics may include the courses listed under additional requirements above.)
- V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

COMPUTER SCIENCE COURSES (CS)

1301* OPERATING SYSTEM UTILITIES I, 1 hour *crédit*

The basic commands of the operating system currently in use. Lecture 1 hour. Corequisite: CS 1313.
 Prerequisites: None.

1313* INTRODUCTION TO COMPUTER SCIENCE I, 3 hours credit

An introduction to a structured programming language and its use in solving simple problems. Lecture 3 hours. Corequisite: CS 1301. Prerequisites: MATH 1513, concurrent enrollment in MATH 1513 or departmental permission.

1501* OPERATING SYSTEM UTILITIES II, 1 hour credit

Continuation of CS 1301. Lecture 1 hour. Corequisite: CS 1513. Prerequisite: CS 1301.

1513* INTRODUCTION TO COMPUTER SCIENCE II, 3 hours credit

A continuation of CS 1313. Lecture 3 hours. Corequisite: CS 1501. Prerequisite: CS 1313.

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.

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.

2401 OPERATING SYSTEM UTILITIES III, 1 hour credit

Continuation of CS 1501. Lecture 1 hour. Corequisite: CS 2413. Prerequisite: CS 1501.

2413* 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. Corequisite: 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 AND DISTRIBUTED COMPUTING, 3 hours credit

Concepts of multiprocessing and interprocess communication, networking protocol architecture, construction of client/server software using low and high level system calls. Introduction to parallel/distributed computing. Lecture 3 hours. Prerequisite: CS 2513.

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 departmental permission.

3443 NUMERICAL ANALYSIS II, 3 hours credit

A continuation of Computer Science 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 2513.

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, 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, 3 hours credit

Acquisition of the skills necessary to control complex programming projects. Lecture 3 hours. Prerequisites: CS 2413 and senior standing.

4223 PROGRAMMING LANGUAGES AND COMPILERS, 3 hours credit

Coverage of the syntax and organization of a number of high-level languages, and an introduction to the theory of compiler construction. Lecture 3 hours. Prerequisite: CS 2513.

4443^{GR} 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 departmental 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.

MATHEMATICS COURSES (MATH)

"Students who have credit in mathematics courses numbered 2000 or above may not enroll in courses below 2000 without departmental approval."

0104 BEGINNING ALGEBRA, 4 hours credit (Remedial/Developmental Course)

The equivalent of a year of high school algebra. Offered only in night classes. Does not satisfy any degree requirement for any degree program at Cameron University. Prerequisite: None. Lecture 4 hours.

0115 BEGINNING AND INTERMEDIATE ALGEBRA, 5 hours credit (Remedial/ Developmental Course)

An integration of beginning and intermediate algebra. Especially designed for students who need remediation in high school algebra. This course is equivalent to the two courses MATH 0104 and MATH 0213. Does not satisfy any requirements for any degree program at Cameron University. Lecture 5 hours.

0213 INTERMEDIATE ALGEBRA, 3 hours credit (Remedial/Developmental Course)

Introductory algebra of the real number system. This course is designed for students who need remediation in the intermediate level high school algebra. Does not satisfy any requirements for any degree program at Cameron University. Lecture 3 hours. Prerequisite: MATH 0104 or one year of high school algebra.

1513* COLLEGE ALGEBRA, 3 hours credit

Topics included are theory of exponents, equations, variables, and functions; logarithms, mathematical induction, binomial theorem, progressions, complex numbers and partial fractions. Does not apply towards a major in mathematics. Lecture 3 hours. Prerequisite: MATH 0213 or 0115 or equivalent.

1613* PLANE TRIGONOMETRY, 3 hours credit

The development and use of circular and trigonometric functions; relations between the functions, logarithms, solutions of triangles; applications to practical problems throughout the course. Does not apply towards a major in mathematics. Lecture 3 hours. Prerequisite: MATH 1513 or equivalent or concurrent enrollment in MATH 1513.

1715* 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 towards a major in mathematics. Lecture 5 hours. Prerequisite: MATH 0115 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. Lecture 3 hours. Prerequisite: None.

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.

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 in mathematics. 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: Departmental permission.

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.

3353 MATHEMATICS FOR ELEMENTARY TEACHERS I, 3 hours credit

A basic course in (contemporary or modern) mathematics for elementary education majors. An introduction to problem solving and number theory as they relate to numeration systems, rational numbers, elementary algebra, functions, and the use of current technologies. Lecture 3 hours. Prerequisite: Completion of General Education Requirement.

3363 MATHEMATICS FOR ELEMENTARY TEACHERS II, 3 hours credit

Structure of the real number system, functions, statistics, probability, and elementary geometric concepts with emphasis on informal geometry. Additionally, use of technology as a teaching tool is introduced. Does not apply toward a major or minor in mathematics. Lecture 3 hours. Prerequisite: MATH 3353.

3373 ALGEBRA FOR ELEMENTARY TEACHERS, 3 hours credit

A course in algebra specifically designed for the elementary teacher which includes those topics of algebra that permeate the modern elementary program and many of those which elementary students will encounter in the secondary school. Does not apply towards a major or minor in mathematics. Lecture 3 hours. Prerequisite: MATH 3363 or departmental permission.

3383 GEOMETRY FOR ELEMENTARY TEACHERS, 3 hours credit

A course in geometry specifically designed for the elementary teacher. The geometrical concepts which are introduced in modern elementary mathematics programs are covered in detail in this course. Does not apply towards a major or minor in mathematics. Lecture 3 hours. Prerequisite: MATH 3363 or departmental 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, analytical hierarchies. Lecture 3 hours. Prerequisite: MATH 2215 or 2713 or departmental 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 departmental 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 departmental permission.

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

Group projects designed to meet special needs. May be repeated as often as desired with permission of the department chairman. Prerequisite: Departmental approval. Will count on major or minor only with departmental permission.

4772 TEACHING OF SECONDARY MATHEMATICS, 2 hours credit

The general aspects of the teaching of mathematics; detailed study of the teaching of the various high school mathematics courses. Does not apply towards a major or minor in mathematics. Lecture 2 hours. Teacher Certification students must be admitted to teacher education prior to enrollment in this course. Prerequisite: Senior standing.

4483 INTRODUCTION TO REAL ANALYSIS, 3 hours credit

A study of the basic concepts of analysis, elementary set theory, the real numbers, sequences, real functions, derivatives, and integrals. Lecture 3 hours. Prerequisite: MATH 2244 and 2613.

4491-3 INDEPENDENT STUDY IN MATHEMATICS, 1-3 hours credit

Assigned research, readings, and reports based on the needs of the individual student. May be taken only by juniors and seniors. May be repeated as often as desired with permission of the department chairman. Prerequisite: Departmental 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. 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 equivalent.

3023 INTRODUCTORY PROBABILITY AND STATISTICS II, 3 hours credit

A continuation of Statistics 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 Statistics 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 departmental permission.

* Liberal arts and sciences course.

DEPARTMENT OF MILITARY SCIENCE

CHAIR - LTC Thomas J. Mayock, Jr., Professor

Assistant Professors: CPT McNair, CPT Davis

Chief Instructor: MSG Adamski

Supply Sergeant: SGT Seldon

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 students enrolled in freshman and sophomore level classes. Cadets enrolled in the Advanced Course (Junior and Senior years) 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)

MIL SC 1062 Introduction to ROTC .....	.2 hours
MIL SC 1072 Introduction to Leadership .....	.2 hours

MS II (Sophomore Year)

MIL SC 2012 Self and Team Development .....	.2 hours
MIL SC 2042 Individual and Team Military Tactics .....	.2 hours
MIL SC 2002-8 Camp Challenge (Summer Semester Only) .....	.2-8 hours
(A Leadership Laboratory is required for MS II courses)	

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 Camp Challenge (MIL SC 2002-8) if they are interested in qualifying for the Advanced Course.

ADVANCED COURSE MS III (Junior Year)

MIL SC 3013 Leading Small Organizations I .....	.3 hours
MIL SC 3023 Leading Small Organizations II .....	.3 hours
(A Leadership Laboratory is required for MS III courses.)	

MS IV (Senior Year)

MIL SC 4004 Advanced Camp (Summer Semester Only) .....	.4 hours
MIL SC 4013 Leadership and Goal Setting .....	.3 hours
MIL SC 4023 Transition to Lieutenant .....	.3 hours
(A Leadership Laboratory is required for MS IV courses.)	

Completion of the Basic Course, Camp Challenge 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 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 COURSES (MIL SC)

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, and 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. Full academic credit is given for all ROTC basic courses. Each enrollment in MIL SC 1062, 1072, 2012, and 2042 will satisfy 1 hour of Physical Education Activity for General Education requirements. To successfully complete the Basic Course and qualify for enrollment in the Advanced Course, a student must complete all 1000 and 2000 series courses, or MIL SC 2002-8 Camp Challenge. Students are paid while attending Camp Challenge. Students with JROTC experience or with prior military service may receive placement credit.

1062 INTRODUCTION TO ROTC, 2 hours credit

Increase self-confidence through team study and activities in basic drill, physical fitness, first aid, making presentations and basic marksmanship. Learn the fundamental concepts of leadership in a profession in both classroom and hands on environments. Participation is optional in one weekend exercise, physical fitness training, and leadership laboratory. Lecture 2 hours.

1072 INTRODUCTION TO LEADERSHIP, 2 hours credit

Learn and apply the principles of effective leading. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. Reinforce self-confidence through participation in challenging exercises with upper division ROTC students. Participation is optional in one weekend exercise, physical fitness training, and leadership laboratory. Lecture 2 hours.

2012 SELF AND TEAM DEVELOPMENT, 2 hours credit

Learn and apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams. Develop skills in oral presentations, concise writing, planning events, coordination of group efforts, land navigation and basic military tactics. Learn the fundamentals of ROTC's Leadership Assessment Program. Participation is optional in one weekend exercise and physical fitness training. Lecture 2 hours, laboratory 3 hours.

2032 INDEPENDENT STUDY IN MILITARY HISTORY, 2 hours credit

Independent study of a survey of American Military History. This course is only available to students who are unable to meet their military history requirement any other way. Prerequisite: Permission of the department chairman.

2042 INDIVIDUAL AND TEAM MILITARY TACTICS, 2 hours credit

Introduction to individual and team aspects of military tactics in small unit operations. Includes safety assessments, movement techniques, planning for team safety/security and pre-execution checks. Learn techniques for training others as an aspect of continued leadership development. Participation is optional in one weekend exercise and physical fitness training. Lecture 2 hours, laboratory 3 hours.

2052 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 course. Content will duplicate the content of the course it replaces. Laboratory required if replacing MIL SC 2012 or 2042. Prerequisite: Permission of the department chairman.

Basic Camp**2002-8 CAMP CHALLENGE, 2-8 hours credit**

A six week summer camp conducted at an Army post. The environment is rigorous and emphasizes developing leadership, and basic military skills. No military obligation incurred. Open only to students who have not taken all four of the 1000 and 2000 level courses, and who pass a physical examination (paid for by ROTC). Completion of MIL SC 2002-8 qualifies a student for entry into the Advanced Course. Prerequisite: Permission of the department chairman.

Advanced Course

The Advanced Course, consists of MIL SC 3013, 3023, 4004, 4013 and 4023. Cadets normally attend Advanced Camp (MIL SC 4004) during the summer between their junior and senior years and they are paid for attending. It is open only to students who have completed the Basic Course, Camp Challenge 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 Advanced Camp, and may declare a minor in Military Science. Students receive a stipend of \$150 a month during the school year and veterans may draw the ROTC stipend and VA educational benefits concurrently. The Advanced Course emphasizes practical exercises in leadership.

3013 LEADING SMALL ORGANIZATIONS I, 3 hours credit

A series of practical exercises in leading small groups, receiving personal assessments and encouragement, and leading again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower division students to develop training skills and to practice leading. Participation is required in one weekend exercise and physical fitness training. Lecture 3 hours, laboratory 3 hours. Prerequisite: Military Science Basic Course or placement credit for the Basic Course and permission of the department chairman.

3023 LEADING SMALL ORGANIZATIONS II, 3 hours credit

Continues the methodology of MIL SC 3013. Analyze tasks and prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine the importance of ethical decision making in setting a positive climate that enhances team performance. Participation is required in one weekend exercise and physical fitness training. Lecture 3 hours, laboratory 3 hours. Prerequisite: Military Science Basic Course or placement credit for the Basic Course and permission of the department chairman.

4004 ROTC ADVANCED CAMP, 4 hours credit

A five-week camp conducted at an Army post. Open only to (and required of) students who have completed MIL SC 3013 and 3023. The Advanced Camp 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 Advanced Camp and the beginning of the fall semester. Prerequisites: MIL SC 3013 and 3023.

4013 LEADERSHIP CHALLENGES AND GOAL-SETTING, 3 hours credit

Plan, conduct and evaluate activities of the ROTC cadet organization. Articulate goals and put plans into action to attain them. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn and apply various Army policies and programs in this effort. Participation is required in one weekend exercise and physical fitness training. Lecture 3 hours, laboratory 3 hours. Prerequisite: Permission of the department chairman.

4023 TRANSITION TO LIEUTENANT, 3 hours credit

Continues the methodology from MIL SC 4013. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as they relate to leading as an officer in the Army. Prepare for a future as a successful Army lieutenant. Participation is required in one weekend exercise and physical fitness training. Lecture 3 hours, laboratory 3 hours. Prerequisite: Permission of the department chairman.

Leadership Laboratory

Leadership laboratory is a weekly period emphasizing practical application of leadership and military skills. Activities include: rifle marksmanship, map reading and 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, allows students to get out of the classroom and apply the skills they have learned in fast paced exercises. Leadership Laboratory is included in all Military Science courses beginning with the 2000 (sophomore level). Attendance is optional for freshmen, but they are always welcome and encouraged to attend.

DEPARTMENT OF NURSING

CHAIR - Lynn Barnhart, Assistant Professor
Assistant Professor: Tallent
Instructor: J. Lavender

Purpose

The Associate Degree Nursing Program (560) provides an instructional program in technical education to prepare students for the practice of nursing in a variety of settings. Students completing the program receive an Associate of Applied Science Degree from the University and are eligible to take the NCLEX for registered nurse licensure.

Admission Requirements

Admission to Cameron University is a prerequisite to admission to the Department of Nursing. Admission to Cameron University does not, however, assure admission to the program in nursing. In addition to the admission requirements of Cameron University, the student must meet the following requirements:

High school graduate or equivalent.

Must have no University curricula deficiencies before acceptance into the nursing program.

Minimum GPA 2.5 on a 4.0 scale is required on high school and college transcripts.

Procedures for Admission

1. Obtain admission to Cameron University.
2. Call or write the Department of Nursing and request application materials for the nursing program.
3. Applicants are responsible for furnishing current (unofficial) high school and college transcripts to be placed in the nursing application file.
4. Nursing application file must be complete by January 15.
5. Letters of acceptance are mailed by the first week of April.
6. Completion of University curricula deficiencies, final grades, and/or overall GPA will be certified by departmental admissions committee before full acceptance letter is sent to applicants.
7. Due to limited clinical laboratory facilities, enrollment in the nursing program is limited. In the event that the number of eligible applicants exceeds the number who can be admitted, candidates will be assigned preference points based on GPA, ACT composite score, and college level courses which complement the nursing program and are accepted for credit by Cameron University.

Curriculum Plan

First Year

First Semester (Fall)		Second Semester (Spring)	
Nursing 1018	8 credits	Nursing 1025	5 credits
Biology 2034	4 credits	Nursing 1055	5 credits
English 1113	3 credits	Biology 2134	4 credits
Psychology 1113	3 credits	Sociology 1113	3 credits
TOTAL HOURS	18 credits	TOTAL HOURS	17 credits

Second Year

Third Semester (Fall)		Fourth Semester (Spring)	
Nursing 2009	9 credits	Nursing 2109	9 credits
Biology 2124	4 credits	Nursing 2302	2 credits
Pol. Sci. 1113	3 credits	History 1483/1493	3 credits
		Elective	3 credits
TOTAL HOURS	16 credits	TOTAL HOURS	17 credits

(Minimum of 68 hours necessary to meet Oklahoma Board of Nursing requirements.) Any of the general education courses required may be taken before entering the nursing program.

All nursing courses are 16 weeks in length, with the exception of Nursing 1025 and Nursing 1055 which are 8 weeks in length.

General Information

All students must maintain a 2.0 overall average (C) and must achieve grades of C or above in all nursing courses and required biological sciences for the purposes of retention, progression, and graduation. Nursing courses and required biological sciences with an unsatisfactory grade must be repeated until a grade of C or above is achieved.

Failure to achieve "C" in theory of a nursing course will constitute an unsatisfactory grade in clinical areas. Clinical and theory portions of the course must be repeated.

Failure to achieve a satisfactory grade in the clinical area of a nursing course will constitute an unsatisfactory grade in the theory of a nursing course. Clinical and theory portions of the course must be repeated.

Students must maintain a cumulative overall GPA of 2.0 or above on a 4.0 scale. Students failing to maintain at least a 2.0 overall GPA will be placed on probation in the nursing program for one semester. If at the end of the probation semester, the overall GPA is not 2.0 or above, the student will be dismissed from the nursing program. Students must adhere to the policies of the University as they pertain to academic suspension.

Students who fail to meet academic requirements of Nursing 1018 must wait until the following academic year before reapplying to the nursing program. He/she cannot enroll in other nursing courses during this time, but may enroll in supportive courses if otherwise eligible. Students wishing to repeat Nursing 1018 must apply for readmission and be readmitted to the program.

Second year students who fail to meet minimum standards in a nursing course must withdraw from the program. Students wishing to repeat either Nursing 2009 or Nursing 2109 must apply for admission. The time when students may repeat courses will be determined on an individual basis, keeping in mind factors such as prerequisites, space in class, etc.

Students must provide their own transportation to clinical agencies.

Nursing students must obtain/maintain basic CPR certification prior to assignment in the clinical facility.

Re-Admission Requirements

Students returning to the nursing program must have a cumulative GPA of 2.5, and will be admitted on the basis of the availability of space in the class. Students returning to the program with a lapse of more than one year in the program of learning may be assessed additional cost of testing to ascertain placement level of re-entry.

Advanced Standing

Students currently enrolled at Cameron University who have completed an NLN accredited state approved practical nursing program within the past five (5) years and are currently licensed in the state of Oklahoma may apply for the State Regents approved exception to the Advanced Standing Credit Policy for Nursing 1018. Candidates must meet admission requirements and will be admitted to the appropriate nursing class on a space available basis.

Students currently enrolled at Cameron University and who have completed a state approved practical nursing program and are currently licensed in the State of Oklahoma may challenge Nursing 1018 by successfully passing the NLN Mobility I examination. Successful challenge candidates will be admitted to the appropriate nursing class on a space available basis.

Transfer credits from an accredited nursing school will be considered on an individual basis.

NURSING COURSES (NURS)

NURS 1011 MEDICAL TERMINOLOGY

Emphasizes components of medical terms, definitions, spelling, and correct oral and written communication. Enrollment not limited to nursing students. Lecture 1 hour.

1018 FUNDAMENTALS, 8 hours credit

This course is designed to introduce the student to the nursing skills that meet the basic needs of individuals as they adapt to alterations in homeostasis. The concepts of therapeutic communication are presented. Emphasis is on physical assessment techniques and the assessment component of the nursing process. Lecture 6 hours, laboratory 6 hours.

1025 MATERNAL-NEWBORN NURSING, 5 hours credit

This course is designed to develop student understanding and utilization of the nursing process as related to the concepts and principles of maternal-newborn health care. The focus is on the needs of the normal pregnant individual from the time of conception through the postpartum period and the influence of the pregnancy on the total family structure. Adaptation of the mother and the fetus to alterations in the normal pregnancy will be examined. Lecture 6 hours, laboratory 12 hours. Prerequisite: NURS 1018

1055 NURSING OF CHILDREN, 5 hours credit

This course is designed to focus on the utilization of the nursing process in the care of children. Emphasis is to promote adaptation of the child and the family to health-related changes from infancy through adolescence. Lecture 6 hours, laboratory 12 hours. Prerequisite: NURS 1018.

2009 ACUTE MEDICAL-SURGICAL NURSING, 9 hours credit

This course is designed to focus on adult clients with medical-surgical alterations in health and the use of the nursing process in promoting adaptation. Special emphasis is placed on nursing interventions for clients with alterations in tissue perfusion, oxygenation, sensory-perception and coordination. Lecture 6 hours, laboratory 9 hours. Prerequisites: NURS 1018, NURS 1025, NURS 1055, BIOL 2034, BIOL 2134.

2109 ACUTE MEDICAL-SURGICAL NURSING, 9 hours credit

This course is designed to present a continuation of medical-surgical content in NURS 2009. The nursing process is utilized in promoting adaptation of the adult client with alterations in metabolism, hormone regulation, and fluid-electrolyte balance. Lecture 6 hours, laboratory 9 hours. Prerequisites: NURS 1018, NURS 1025, NURS 1055, NURS 2009, BIOL 2034, BIOL 2134, BIOL 2124.

2302 NURSING SEMINAR, 2 hours credit

This course is designed to assist students in establishing their identity as a registered nurse. The following topics will be addressed in seminar basis: history of nursing, nursing roles, trends in nursing, health care delivery system, and ethics. Lecture 2 hours. Prerequisite: Enrollment in second year nursing classes.

DEPARTMENT OF PHYSICAL SCIENCE

CHAIR - Theodore Snider, Professor

Professors: Buckley, Crane, Hawk, Nalley, O'Keeffe, Stanton

Associate Professors: Hormann, Koll, Vitense

Assistant Professor: Bryan

The Department of Physical Science offers programs leading to the Bachelor of Science degree with majors in Chemistry, 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 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 a pharmacy, medical technology, physical and occupational therapy, and radiological technology, biotechnology, and environmental sciences. A bachelors degree in chemistry may be utilized 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 utilizes the Physical Chemistry option (described in the degree outline), will fit most economically (that is fastest, with minimal financial investment) into a Bachelors 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 Bachelors 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 best 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 REQUIREMENT50 hours

General Education requirements are found on the red striped pages.

II. MAJORMinimum of 36 hours

Required Courses25-29 hours

CHEM 1015 or CHEM 1364/1361; CHEM 1225 or CHEM 1474/1471; CHEM 2113; CHEM 2232; CHEM 1474/1471 or CHEM 2222 or CHEM 3333 or CHEM 3343 or CHEM 4024; CHEM 3314; CHEM 3324; CHEM 4442

Concentration8 hours

Majors must complete one of the following concentrations. It is recommended that students wishing to become professional chemists take the Physical Chemistry concentration.

Physical Chemistry

CHEM 4353, CHEM 4351, CHEM 4363, CHEM 4361

Biochemistry

CHEM 4403, CHEM 4401, CHEM 4413, CHEM 4411

Electives0-3 hours

(Chemistry electives to complete the requirements for the major. 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))

III. ADDITIONAL REQUIREMENTS15 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 0104, 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. MINOR18 hours

It is strongly recommended that the student select a minor from the fields of Biology, Mathematics or Physics.

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Science. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

BACHELOR OF SCIENCE DEGREE MAJOR IN NATURAL SCIENCE (380)

The Natural Science degree program is designed to prepare secondary teachers for the smaller rural schools where they would often have to teach Biology, Chemistry, and Physics. This program may also be utilized to satisfy most pre-admission requirements for those wishing to prepare for careers in the health industries (Medicine, Osteopathy, Optometry, Dentistry, Veterinary Medicine). However, the student should be cautious and seriously consider another degree program if teaching is not an acceptable alternative.

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 REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

- II. MAJOR-MINOR54 hours

Required Courses40-43 hours

Principles of Biology I and II (BIOL 1364 and BIOL 1474) or General Botany (BIOL 1114) and General Zoology (BIOL 1124), Biology electives (4 hours) selected from 2000 or above level courses, CHEM 1015 or 1364/1361, and CHEM 1225 or 1474/1471, CHEM 3314 and 3324 sequence or CHEM 3345, 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 54 semester hours are earned in Biology, Chemistry, and Physics. Depending upon high school background some students may also need MATH 0104, 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.

- II. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Science. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

**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 multidisciplinary 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 REQUIREMENT50 hours
General Education requirements are found on the red striped pages.

- II. MAJOR45 hours

Required Courses33 hours

PHYS 1115 or PHYS 2015, PHYS 1215 or PHYS 2025, PHYS 3003, PHYS 3011, PHYS 3024, PHYS 3031, PHYS 3303, PHYS 3403, PHYS 4113, PHYS 4403, CHEM 4442

Required Electives12 hours

(A minimum of 6 semester hours must be taken from Group A Electives and 6 semester hours from Group B Electives.)

GROUP A ELECTIVES

CS 3344, CS 3443, MATH 2244, MATH 3253, ELECT 2014, ELECT 3034, ELECT 3124, CHEM 2113, CHEM 3343, CHEM 4024, PHYS 3073, PHYS 3083

GROUP B ELECTIVES

PHYS 3033, PHYS 4452, PHYS 4491-3, CHEM 4353, CHEM 4351, CHEM 4363, CHEM 4361, MATH 3013, MATH 4433

- III. ADDITIONAL REQUIREMENTS 23 hours
All physics majors must complete the following six courses, CHEM 1015 or CHEM 1364/1361, CHEM 1225 or 1474/1471, MATH 2215, MATH 2235, MATH 2244, and MATH 3253. Depending upon high school background some students may also need MATH 0104, 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 Mathematics, Chemistry, or Electronics.)
- V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Teacher Licensure/Certification

Cameron University offers a program leading to licensure/certification in Science. Degree requirements are not necessarily identical with certification requirements. Consult the Teacher Certification Catalog and your departmental advisor for details about certification.

COURSES

The course curricula to complete a degree in the Department of Physical Science is designed to be studied in a sequential manner. The prerequisites are advisory and reflect this sequence. These courses are taught utilizing knowledge and skills that the student is expected to retain from previous studies. Taking Physical Science 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.

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 terminal course for non-science majors. Principal concepts and theories of chemistry are critically examined from the layman's point of view. 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. Prerequisite: At least one year of high school algebra.

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 Chemistry 1364 (Exception: A student with an ACT MATH score of 26 or above who has not had high school chemistry should take Chemistry 1364.) 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 Chemistry 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. Chemistry 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 26 or above, or CHEM 1004. CHEM 1361 must be successfully completed before credit is received in this course.

1471* GENERAL CHEMISTRY LABORATORY II, 1 hour credit

Chemical principles involved in detection of common cations and anions by semi-micro laboratory techniques. Laboratory 2 hours. Prerequisite: CHEM 1361 and 1474 or concurrent enrollment. Chemistry 1474 must be successfully completed before credit is given in this course.

1474* GENERAL CHEMISTRY II, 4 hours credit

A continuation of Chemistry 1364. Lecture 4 hours. Prerequisite: CHEM 1364. Chemistry 1471 must be successfully completed before credit is given in this course.

2113* FUNDAMENTALS OF ANALYTICAL CHEMISTRY, 3 hours credit

An introductory course in analytical chemistry emphasizing volumetric and electrochemical methods. Spectroscopic and chromatographic techniques are also introduced. Lecture 3 hours. Prerequisites: CHEM 1225 or CHEM 1474 or equivalents.

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 2113 or concurrent enrollment.

2232* QUANTITATIVE ANALYSIS LABORATORY, 2 hours credit

Laboratory techniques of quantitative analysis including both volumetric and spectroscopic methods. Laboratory 6 hours. Prerequisite: CHEM 2113 or concurrent enrollment.

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. Prerequisites: CHEM 1225 or CHEM 1474 and 1471 or equivalent.

3324* ORGANIC CHEMISTRY II, 4 hours credit

A continuation of Chemistry 3314. The second semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHEM 3314.

3333* CHEMISTRY OF WATER AND WASTEWATER, 3 hours credit

Inorganic chemistry of natural water supplies, pollution and water treatment. Lecture 2 hours, laboratory 6 hours. Prerequisite: CHEM 2113.

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.

4024* INSTRUMENTAL METHODS OF ANALYSIS, 4 hours credit

Theoretical and laboratory study of modern analytical techniques, both qualitative and quantitative, with emphasis on instrument types, their components and methodology. Lecture 2 hours, laboratory 6 hours. Prerequisite: CHEM 4353.

4303* DRUGS AND THE HUMAN BODY, 3 hours credit

A course for nonscience 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.

4333* INORGANIC CHEMISTRY I, 3 hours credit

A survey of all of the elements and important compounds based on atomic structure and position in the periodic system; effect of atomic size, ionic size, and charge on the properties of elements. Lecture 3 hours. Prerequisite: CHEM 4353.

4343* INORGANIC CHEMISTRY II, 3 hours credit

Introduction to theoretical implications underlying bonding, Introduction to theoretical implications underlying bonding, stereochemistry, and other structural concepts in inorganic chemistry. Ionic, valence bond, molecular orbital, and crystal field theories. Mechanisms of reactions in solution. Lecture 3 hours. Prerequisite: CHEM 4333.

4351* PHYSICAL CHEMISTRY LABORATORY I, 1 hour credit

Apparatus, methods and calculations employed in physio-chemical measurements. Laboratory 3 hours. Prerequisite: CHEM 4353 or concurrent enrollment.

4353* PHYSICAL CHEMISTRY I, 3 hours credit

A fundamental course in physical chemistry, including application of thermodynamics, kinetics and theory of physical properties of matter as applied to chemical systems. Lecture 3 hours. Prerequisites: CHEM 2232, PHYS 1115 and MATH 2215.

4361* PHYSICAL CHEMISTRY LABORATORY II, 1 hour credit

A continuation of Chemistry 4351. Laboratory 3 hours. Prerequisite: CHEM 4363 or concurrent enrollment.

4363* PHYSICAL CHEMISTRY II, 3 hours credit

A continuation of Chemistry 4353. 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 2232 and 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 4401. Laboratory 3 hours. Prerequisites: CHEM 4401, 4413 or concurrent enrollment.

4413* BIOCHEMISTRY II, 3 hours credit

A continuation of Biochemistry 4403 with emphasis on the catabolic routes of metabolism. Lecture 3 hours. Prerequisite: CHEM 4403.

4442* LITERATURE FOR PHYSICS AND CHEMISTRY, 2 hours credit

Introduction to the library resources of physical science 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 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.

4453* ADVANCED GENERAL CHEMISTRY, 3 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: 15 hours of college chemistry and departmental permission. Teacher Certification students must be admitted to teacher education prior to enrollment in this course.

4491-4 SPECIAL PROBLEMS IN CHEMISTRY, 1-4 hours credit

Training in independent work. Experimental investigations of an assigned problem. Laboratory 3-12 hours. Prerequisite: Departmental permission.

GEOLOGY COURSES (GEOL)**1015* PHYSICAL GEOLOGY, 5 hours credit**

Igneous, sedimentary and metamorphic rocks; results of erosion of the earth's surface by streams, oceans, winds, glaciers; phenomena of mountains, volcanoes, earthquakes and interior of the earth. Field trips. Lecture 3 hours, laboratory 3 hours.

1024* HISTORICAL GEOLOGY, 4 hours credit

Geological history of the earth as revealed in the character and fossil content of the rocks. Field trips. Lecture 3 hours, laboratory 3 hours.

PHYSICS COURSES (PHYS)**1004* DESCRIPTIVE PHYSICS, 4 hours credit**

A survey course in general physics. Topics include mechanics, heat, sound, electricity, magnetism, light, and modern physics. For students who wish only four semester hours of physics. Credit earned in this course cannot be counted towards a science major or minor. Lecture 4 hours. Prerequisite: At least one year of high school algebra.

1115* PHYSICS I, 5 hours credit

A beginning lecture and laboratory study of the fundamental principles of mechanics, heat, and sound. Lecture 4 hours, laboratory 2 hours. Prerequisite: MATH 1613 or 1715.

1215* PHYSICS II, 5 hours credit

A continuation of Physics 1115. A lecture and laboratory study of the fundamental principles of electricity, magnetism, light, and modern physics. Lecture 4 hours, laboratory 2 hours. Prerequisite: PHYS 1115.

2015* PHYSICS I FOR SCIENCE AND ENGINEERING MAJORS, 5 hours credit

A lecture-laboratory course of general physics taught with calculus. Includes topics from mechanics, heat and sound. Lecture 5 hours, laboratory 2 hours. Prerequisite: MATH 2215 or concurrent enrollment.

2025* PHYSICS II FOR SCIENCE AND ENGINEERING MAJORS, 5 hours credit

A continuation of Physics 2015. Includes topics from electricity, light, and modern physics. Lecture 5 hours, laboratory 2 hours. Prerequisite: PHYS 2015.

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 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 or concurrent enrollment and 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 application of dc and ac circuits analysis, measuring instruments, operational amplifiers, and various solid state devices. Lecture 4 hours. Prerequisites: PHYS 1215, 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 Physics 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: PHYS 3003.

3073 MICROPROCESSORS I, 3 hours credit

Introduction to microcomputer systems, number systems, binary operations, machine coding, solid state memory, digital communication, A to D and D to A. Lecture 2 hours, laboratory 2 hours. Prerequisite: MATH 1513 or equivalent. (Some programming experience is desirable.)

3083 MICROPROCESSORS II, 3 hours credit

Advanced machine coding, multiplexing, input/output methodology, analog to digital conversion, automatic data recording, process control, system approach to microcomputer instrumentation. Lecture 3 hours. Prerequisite: PHYS 3073.

3303* 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.

4403* LIGHT, 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: Departmental permission.

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: 10 hours of College Physics and permission of department.

PHYSICAL SCIENCE COURSES (PHYSICI)**0124 BEGINNING PHYSICAL SCIENCE, 4 hours credit (Remedial/Developmental Course)**

A prerequisite lecture-laboratory course for students who are deficient in Science laboratory science credits required by the "College Admission Curricular Requirements". Does not satisfy any requirement for any degree program at Cameron University. Lecture-Demonstration 3 hours, laboratory 2 hours.

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 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.

* Liberal arts & sciences course.

DEPARTMENT OF TECHNOLOGY

CHAIR - Tom Russell, Associate Professor

Professor: Phillips

Associate Professor: Russell, Sutherland

Assistant Professors: Hickerson, G. Jones, Karasz

Instructors: Penick, Taylor, Tice

The Department of Technology provides Associate in Applied Science degrees in Data Processing, Computer Aided Design Drafting, and Telecommunication Electronics. A Bachelor of Science Degree is offered with studies in Communications Electronic Systems, Computer Information Systems, Engineering Design, 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 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 for students to acquire advanced technical expertise and preparation for supervisory or managerial positions. Program requirements are flexible to allow students to select courses to meet individual goals.

These programs are designed to serve (1) graduates of Cameron University associate degree technology programs, (2) graduates of associate degree technology programs offered by other regionally accredited institutions of higher education and (3) individuals with extensive backgrounds in a technical specialty. Additionally, students with backgrounds in other disciplines have completed the programs.

BACHELOR OF SCIENCE DEGREE TECHNOLOGY: COMMUNICATIONS ELECTRONIC SYSTEMS (413)

Advanced topics in telecommunication electronics form the nucleus of this major. Students cover advanced topics including visual systems, optoelectronics and network communications management. Graduates are capable of moving into telecommunications design and management career paths.

- | | |
|---|----------|
| I. GENERAL EDUCATION REQUIREMENT | 50 hours |
| General Education requirements are found on the red striped pages. | |
| II. MAJOR-MINOR | 67 hours |
| Technical Specialty | 37 hours |
| ELEC 1014, ELEC 1054, ELEC 2014, ELEC 2024, ELEC 3133 | |
| TCE 1063, TCE 2063, TCE 2173, TCE 2083, TCE 3063 or TCE 3173, TCE 4063 or | |
| ELEC 4013 | |
| Core Courses | 12 hours |
| TECH 3013, TECH 3033 or TECH 4003, TECH 4023, TECH 4033 | |

Upper Division Courses 9-12 hours

BUS 3213, R/TV 3323 or R/TV 4333, R/TV 4133

BUS Additional advisor approved upper division courses selected to compliment the student's goals and objectives.

Required Support Courses 9-12 hours

MATH 2215 or MATH 2713, R/TV 2313, CAD 1013 or CIS 1013

Additional Department of Technology approved support courses selected to complement the student's goals and objectives.

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Please note: Student must complete a minimum of 40 semester hours of upper division courses.

BACHELOR OF SCIENCE DEGREE TECHNOLOGY: COMPUTER INFORMATION SYSTEMS (411)

The Computer Information Systems program builds on knowledge learned in the Data Processing associate degree program and provides new areas of study. Upper level courses in computer graphics, data 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

General Education requirements are found on the red striped pages.

II. MAJOR-MINOR 60 hours**Technical Specialty** 28-34 hours

CIS 1013, DATA P 1063, CIS 2033, DATA P 2063, DATA P 2023 or TCE 1063, DATA P 3023, CIS 3083, CIS 3023, DATA P 3043, CIS 4063, Computer Language electives.

Required Support Courses 6 hours

ACCTG 2013, ACCTG 2023

Core Courses 12 hours

TECH 3013, TECH 3033 or TECH 4003, TECH 4023, TECH 4033

Upper Division Courses 9 hours

Selected to complement the student's goals and objectives and approved by the Department of Technology.

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Please note: Student must complete a minimum of 40 semester hours of upper division courses.

BACHELOR OF SCIENCE DEGREE TECHNOLOGY: ENGINEERING DESIGN (412)

Students in the Engineering Design program study advanced topics in mechanics and electronics design. Computer assisted engineering projects which enhance the student's analytic and design skills are included in the advanced classes. Students from this program have been placed in engineering level jobs and are able to progress to supervisory or management levels.

- I. GENERAL EDUCATION REQUIREMENT 50 hours
General Education requirements are found on the red striped pages.
- II. MAJOR-MINOR 67-70 hours
 - Technical Specialty** 28 hours
CAD 1013, CAD 1023, CAD 1073, CAD 2073, DESIGN 2102, DESIGN 2164,
DESIGN 2173, ENGR 1053, ELECT 1014
 - Core Courses** 12 hours
TECH 3013, TECH 3033 or TECH 4003, TECH 4023, TECH 4033
 - Upper Division Courses** 17 hours
Approved by Technology Department
DESIGN 3004, DESIGN 3034, DESIGN 4013, DESIGN 4043, CAD 3023 or CAD 3053
 - Required Support Courses** 10-13 hours
MATH 1613, MATH 2713 or MATH 2215, PHYS 1115 or PHYS 1004
- III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.
Please Note: Student must complete a minimum of 40 semester hours of upper division courses.

BACHELOR OF SCIENCE DEGREE TECHNOLOGY (410)

- I. GENERAL EDUCATION REQUIREMENT 50 hours
General Education requirements are found on the red striped pages.
- II. MAJOR-MINOR 60 hours
 - Core Courses** 12 hours
TECH 3013, TECH 3033 or TECH 4003, TECH 4023, TECH 4033
 - Technical Specialty** 32 hours
Approved by Department of Technology
 - Upper Division Courses** 16 hours
Selected to complement the student's goals and objectives and approved by the
Department of Technology.

III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

Please Note: Student must complete a minimum of 40 semester hours of upper division courses.

ASSOCIATE DEGREE IN APPLIED SCIENCE

Associate Degree in Applied Science programs are designed to prepare for employment requiring expertise in a technical specialty. Graduates of these programs have been most successful in obtaining employment in a variety of positions in business, industry and government.

ASSOCIATE DEGREE IN APPLIED SCIENCE COMPUTER AIDED DESIGN DRAFTING (530)

Computer aided design and drafting courses prepare students for current industrial needs. 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, POL SC 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	45 hours
A. TECHNICAL SPECIALTY	
Computer Aided Drafting Courses	15 hours
CAD 1013, CAD 1023, CAD 1073, CAD 2073, CAD 3023 or CAD 3053	
Design Courses	13 hours
DESIGN 2102, DESIGN 2164, DESIGN 2173 and DESIGN 3004 or DESIGN 3034	
B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES	10 hours
MATH 1513 (3 hours); MATH 1613 (3 hours); PHYS 1115 or PHYS 1004 (4 hours)	
C. TECHNICAL-OCCUPATIONAL RELATED COURSE WORK	7 hours
ENGR 1053, ELECT 1014	
TOTAL	63 hours

ASSOCIATE DEGREE IN APPLIED SCIENCE DATA PROCESSING (520)

The Data Processing 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, POL SC 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	
Required Courses	24 hours
CIS 1013, DATA P 1063, CIS 2033, DATA P 2063, CIS 3023, TCE 1063, CIS 3083, CIS 4063	
Computer Language Electives	9 hours
DATA P 1023, DATA P 1083, DATA P 3023, DATA P 3043, ENGR 2113, CIS 3011-3, CAD 1013	
(Other courses approved by Department of Technology advisor.)	
B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES	9 hours
ACCTG 2013, ACCTG 2023 (6 hours)	
MATH 1513 or MATH 1813 (3 hours)	
C. TECHNICAL-OCCUPATIONAL RELATED COURSE WORK	6 hours
TECH 3013, TECH 3033, TECH 4003, TECH 4023, TECH 4033, Other Related Courses (Approved by Technology Advisor)	
TOTAL	66 hours

ASSOCIATE DEGREE IN APPLIED SCIENCE TELECOMMUNICATION ELECTRONICS (540)

Telecommunication electronics majors complete course work leading to a cognitive understanding of complex telecommunication systems. Analog and digital concepts are related to both discrete and integrated network systems. Students completing this degree are typically able to start as entry level network technicians.

I. GENERAL EDUCATION	18 hours
Required Courses	9 hours
ENGL 1113, POL SC 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	46 hours
A. TECHNICAL SPECIALTY	
Electronics	16 hours
ELECT 1014, ELECT 1054, ELECT 2014, ELECT 2024	
Telecommunication Electronics	15 hours
TCE 1063, TCE 2063, TCE 2173, TCE 2083, TCE 3063 or TCE 3173	
B. TECHNICAL-OCCUPATIONAL SUPPORT COURSES	9 hours
CAD 1013 or CIS 1013 (3 hours); R/TV 2313, ELECT 3133 (6 hours)	
C. TECHNICAL-OCCUPATIONAL RELATED COURSE WORK	6 hours
MATH 1513 (3 hours); MATH 1613 (3 hours)	
(NOTE: MATH 1715 plus 1 hour elective will satisfy this requirement)	
TOTAL	64 hours

PRE-PROFESSIONAL PROGRAMS ARCHITECTURE AND ENGINEERING

This is a 2-year program suggested by the Department of 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, ENGR 2113

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

PSYCH 1113, HIST 1483 or 1493, POL SC 1113, HUM 2113 or 2223

ARCHITECTURE COURSES (ARCH)

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.

2123 SURVEYING, 3 hours credit

Measurement of distance and angles using the transit and theodolite. Lecture 2 hours, laboratory 3 hours. Prerequisite: MATH 1613 or concurrent enrollment.

3023 COMMERCIAL ARCHITECTURE, 3 hours credit

The design of commercial buildings with emphasis on safety, durability, and comfort. Lecture 1 hour, laboratory 4 hours. Prerequisite: ARCH 1043.

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.

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 1 hour, laboratory 4 hours. Prerequisite: CAD 1013 or equivalent.

2073 SOLIDS MODELING, 3 hours credit

A study of three dimensional drawing techniques on CAD systems and production of data structures used for Computer Aided Manufacturing. Lecture 2 hours, laboratory 2 hours. Prerequisite: CAD 1023.

3023 PRINTED CIRCUIT DESIGN, 3 hours credit

Computer Aided Drafting techniques used to develop printed circuit patterns. Lecture 1 hour, laboratory 4 hours. Prerequisites: CAD 1013, and ELECT 1014.

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 1 hour, laboratory 4 hours. Prerequisites: ENGR 1053 and CAD 1023.

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.

2033 SYSTEMS ENGINEERING, 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. A project is required to show understanding of topics presented. Lecture 3 hours. Prerequisites: CIS 1013 and DATA P 1063.

3011-3 SOFTWARE APPLICATIONS (NAME OF SOFTWARE), 1-3 hours credit

A study of selected commercial software for microcomputer and/or minicomputer systems. Emphasis is on implementation, equipment requirements, integration capabilities and limitations of each software application. Course may be repeated for credit with different software packages. Prerequisite: Departmental permission.

3023 FACILITIES MANAGEMENT, 3 hours credit

Site planning, preparation and layout. Facility and data security, job scheduling, library maintenance, supervision of data processing personnel, and job control language. Lecture 3 hours. Prerequisite: CIS 2033.

3083 DATABASE, 3 hours credit

Emphasis on design and use of data base systems and a comparison to sequential file structures. Lecture 3 hours. Prerequisite: DATA P 2063.

4023 BUSINESS APPLICATIONS OF COMPUTER GRAPHICS, 3 hours credit

Computer graphics as it applies to business decisions making. Lecture 3 hours. Prerequisite: Departmental permission.

4063 ADVANCED SYSTEMS AND PROGRAMMING, 3 hours credit

A capstone course designed to integrate earlier studies in systems and programming into a viable and realistic approach to solving information system problems. Emphasis is on advanced concepts of screen design, direct access techniques and systems analysis techniques. Assignments are designed to stimulate realistic data center activities from scheduled project to emergency requests. Lecture 2 hours/laboratory 2 hours. Prerequisites: CIS 3083, 3023.

DATA PROCESSING COURSES (DATA P)**1023* RPG PROGRAMMING, 3 hours credit**

Elements of RPG II programming language applied to business applications. Lecture 3 hours.

1063* COBOL APPLICATION I, 3 hours credit

Elements of COBOL programming languages applied to business systems. Use of terminals and editor systems will be stressed in the laboratory. Lecture 2 hours/laboratory 2 hours.

1083* VISUAL BASIC PROGRAMMING, 3 hours credit

Elements of VISUAL BASIC programming language. Lecture 3 hours.

2023 BUSINESS APPLICATIONS OF C++, 3 hours credit

Elements of the C++ programming language with emphasis on business applications. Lecture 3 hours. Prerequisite: DATA P 1063, or department permission.

2063 COBOL APPLICATIONS II, 3 hours credit

COBOL programming of business systems emphasizing file processing, interactive processing, terminal formats, subprograms, and software validation. Lecture 3 hours. Prerequisites: CIS 1013 and DATA P 1063.

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: DATA P 2023.

3043 FOURTH GENERATION LANGUAGES, 3 hours credit

An in-depth study of fourth generation computer languages (4GLs), including general application development, report generation, and query applications. Lecture 3 hours. Prerequisite: DATA P 2023 or DATA P 2063.

DESIGN COURSES (DESIGN)**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.

2102 STATICS, 2 hours credit

A study of coplanar forces determining loads and reactions on standard beams. Emphasis is given to shear, moments, and critical beam stress. Standard tables including AISC and CRSI are used. Lecture 2 hours. Prerequisite: MATH 1613 or equivalent or concurrent enrollment.

2164 STRENGTH OF MATERIALS, 4 hours credit

The design of the size, shape, and function of structural members. The analytical and graphical solutions of structural problems. Includes testing of physical characteristics of compression, shear, hardness, and tension on various materials. Lecture 3 hours, laboratory 2 hours. Prerequisites: CAD 1013 and DESIGN 2102.

2173 TOOL DESIGN, 3 hours credit

A study of machine shop practices as related to workholding devices. Design of specialized machining tools using standard industrial components is emphasized. Lecture 1 hour, laboratory 4 hours. Prerequisite: CAD 1013.

3004 APPLIED KINEMATICS, 4 hours credit

Plane motion analysis of machine elements such as linkages, cams, gears, and drives. The dynamics of rotating machine elements is emphasized. Lecture 3 hours, laboratory 2 hours. Prerequisite: Trigonometry.

3034 MACHINE DESIGN, 4 hours credit

The design of power transmitting machinery composed of machine elements such as gears, pulleys, and cams. Lecture 3 hours, laboratory 2 hours. Prerequisite: DESIGN 2164 or concurrent enrollment.

4013 COMPUTER AIDED DRAFTING AND DESIGN, 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: Departmental permission.

4024 ADVANCED ELECTRONIC DESIGN, 4 hours credit

Design and layout of printed circuits and very large scale integrated circuits applying computer aided design techniques. Lecture 2 hours, laboratory 4 hours. Prerequisite: CAD 3023.

4043 STRUCTURAL DESIGN AND DETAILING, 3 hours credit

The analysis, design and detailing of structural steel components and systems in accordance with the American Institute of Steel Construction. Problems are solved analytically and graphically using personal computer based CAD systems. Lecture 1 hour, laboratory 4 hours. Prerequisites: CAD 1073 and DESIGN 2164.

ELECTRONICS COURSES (ELECT)**1014* ELECTRICITY, 4 hours credit**

Elementary principles of electricity and its applications. Topics include electrical parameters and units, direct current, alternating current, series and parallel circuits, equivalent circuits, capacitance, magnetism, inductance, transformers, schematic symbols. Lecture 3 hours, laboratory 2 hours. Prerequisite: Working knowledge of algebraic principles.

1054 ELECTRONICS I, 4 hours credit

An introduction to semiconductor principles, semiconductor device characteristics and operation, circuit applications, and circuit schematics. Lecture 3 hours, laboratory 2 hours. Prerequisite: ELECT 1014 or concurrent enrollment.

2001-3 SPECIAL PROBLEMS IN ELECTRONICS, 1-3 hours credit

Guidance in independent work. Assigned study projects which will include topics not covered in detail in electronics curricula and based on student needs. Lecture arranged, laboratory arranged. Prerequisites: Sophomore standing and departmental permission.

2014 ELECTRONICS II, 4 hours credit

A study of single and multistage electronic analog and pulse amplifiers, power supplies, and oscillators. Included are discrete components and integrated circuit operational amplifiers. Lecture 3 hours, laboratory 2 hours. Prerequisite: ELECT 1054.

2024 DIGITAL COMPUTER ELECTRONICS, 4 hours credit

Circuit analysis and applications using digital integrated circuits with emphasis on digital computer circuits. Lecture 3 hours, laboratory 2 hours. Prerequisite: ELECT 1054

3034 INDUSTRIAL CONTROL ELECTRONICS, 4 hours credit

Applications of electronics to industrial process measurement and control. Topics include sensors, transducers, feedback control, actuators, and telemetry interfacing. Lecture 3 hours, laboratory 2 hours. Prerequisite: ELECT 2024

3133 MICROPROCESSOR TECHNOLOGY, 3 hours credit

A study of microprocessors, including architecture, assembly language programming and machine language programming. Lecture 2 hours, laboratory 2 hours. Prerequisite: ELECT 2024, or CS 2513, or departmental permission.

4013 ELECTRONIC DESIGN AND ANALYSIS, 3 hours credit

Team oriented electronic system design, construction, and demonstration. Includes system analysis, costs, and component availability. Lecture 2 hours, laboratory 2 hours. Prerequisite: 20 credit hours in electronics or departmental permission.

ENGINEERING TECHNOLOGY COURSES (ENGR)**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.

2113* FORTRAN PROGRAMMING, 3 hours credit

Elements of FORTRAN programming. Lecture 3 hours. Prerequisite: MATH 1513, College Algebra.

4001-3 ENGINEERING SYSTEMS: (TOPICS), 1-4 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.

TECHNOLOGY COURSES (TECH)**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 and/or departmental permission.

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 or departmental permission.

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 or departmental permission.

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: TECH 3013 and 3023 or departmental 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, CAD 1013, ART 1113, or departmental permission.

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 or departmental permission.

4491-3 INDEPENDENT STUDY IN TECHNOLOGY, 1-3 hours credit

Assigned research, reading, and reports based on the needs of the individual student and directly related to the student's technical specialty. Individual guidance will be provided by a faculty member. Prerequisite: Junior standing or departmental permission. The total number of hours earned in Independent Study may not exceed four.

TELECOMMUNICATION ELECTRONICS COURSES (TCE)**1063 TELECOMMUNICATIONS, 3 hours credit**

An introduction to telecommunication hardware and operating systems software, networking, wire lines, fiber optics, ground antennas, and satellite communications. The course is an overview of civilian and military applications of electronic based communication systems. Lecture 3 hours.

2063 TELECOMMUNICATION SYSTEMS, 3 hours credit

A study of terminal devices, telephone digital and analog signaling techniques, telephone circuits, and the connection of customer equipment. Lecture 2 hours, laboratory 2 hours. Prerequisites: ELECT 1014 and TCE 1063.

2173 COMMUNICATION NETWORKS, 3 hours credit

A study of communications via a distributed network. Topics include packet switching, the physical and logical structure of networks, user interfaces, intertask communication and the relationship among system components. Lecture 2 hours, laboratory 2 hours. Prerequisite: TCE 1063.

2083 RECEIVERS AND TRANSMITTERS, 3 hours credit

The study of transmitters and receivers including resonant circuits, coupled circuits, r-f power amplifiers, oscillators, modulators and demodulators. Lecture 2 hours, laboratory 2 hours.

3063 VISUAL SYSTEMS, 3 hours credit

A technical analysis of analog and digital video devices, the interfacing of video components, and multimedia systems. Lecture 2 hours, laboratory 2 hours. Prerequisites: ELECT 1054 and ELECT 2014.

3173 OPTOELECTRONICS, 3 hours credit

A study of electroluminescence devices, photo receptors, fiber optics, lasers, and optoelectronic interfacing. Lecture 2 hours, laboratory 2 hours. Prerequisite: ELECT 2014.

4063 NETWORK COMMUNICATIONS MANAGEMENT, 3 hours credit

Management of network communications systems. Topics include feasibility studies, customer coordination, system hardware and software vendors, technical personnel, project life cycle, budgeting, and marketing. Lecture 3 hours, laboratory 2 hours. Prerequisites: TCE 2063 and TCE 2173.

VOCATIONAL COURSES (VOC)**Technology Department****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 Technology Department Chairman.

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. Prerequisite: None.

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.

DIVISION OF EDUCATIONAL OUTREACH

Associate Provost (Position Vacant)

Tom Sutherlin, Director of Assessment and Planning

Linda Phillips, Assessment Specialist

Susan Camp, Coordinator, Duncan Higher Education Facility

Kathleen Glenn, Programs Coordinator

Rhonda Mahaffey, Health Education Outreach Learning Resources Coordinator

Kimberly Merritt, Projects Coordinator Faculty Development

Edna Alvarillar, Director Health Education Outreach Center

The mission of the Division of Educational Outreach is to assist the academic schools and departments in their efforts to provide services to citizens in the University's service area. The Division coordinates degree programs offered in Altus and Duncan, course offerings at Ft. Sill and other courses offered off-campus. The division provides administrative support for telecourses, teleconferences, workshops, seminars and conferences. In addition, the Center for Faculty Development, the Center for Staff Development, Health Education Outreach Center, and Institutional Assessment and Planning are located in the Division of Educational Outreach.

TESTING

The Testing Center provides registration and supervision for the ACT (American College Testing), SAT (Scholastic Achievement Test), MCAT (Medical College Admissions Test), GMAT (Graduate Management Admissions Test), GRE (Graduate Record Exam), and the LSAT (Law School Admissions Test). Testing information is also available for the NTE (National Teachers Examination), and TOEFL (Test of English as a Foreign Language).

Through the CLEP and DANTES examination programs, any person with substantial knowledge of a subject, whether gained through high school or other experiences, may receive credit for certain college courses. In addition to these nationally standardized tests for credit, students may also obtain college credit by successful performance on institutionally prepared exams.

UNIVERSITY INTERDISCIPLINARY DEGREES

Director (Position Vacant)

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.

BACHELOR OF SCIENCE DEGREE INTERDISCIPLINARY STUDIES (360)

This degree may or may not prepare a student for a particular occupation or entry into a graduate or professional school. 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.

- I. GENERAL EDUCATION REQUIREMENT 50 hours
- II. CONCENTRATION 45 hours
Courses selected from two or more disciplines which in their aggregate comprise a rational combination of skills and concepts. A minimum of 25 semester hours must be upper division courses.
- III. ELECTIVES 33 hours

ASSOCIATE IN SCIENCE DEGREE INTERDISCIPLINARY STUDIES (365)

This degree may or may not prepare a student for a particular occupation or entry into a baccalaureate degree program. 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.

- I. GENERAL EDUCATION REQUIREMENT 37 hours
 - English Composition** 6 hours
ENGL 1113 English and ENGL 1213
 - American History and U.S. Government** 6 hours
POL SC 1113 and HIST 1483 or HIST 1493
 - Science** 6 hours
One course must be a laboratory science
 - Mathematics (MATH 1513 or above)** 3 hours
 - Humanities** 6 hours
 - Electives sufficient to complete 37 hours**
At least one course from the following areas: Psychology, Social Science, Foreign Languages, Fine Arts

- II. CONCENTRATION21-23 hours
 Courses selected from two or more disciplines which in their aggregate comprise a rational combination of skills and concepts
- III. ELECTIVES sufficient to complete60 hours

Procedures

1. Submit a completed application for admission to an Interdisciplinary Studies Degree Program to the Director of Admissions. A copy of the form may be obtained from the Office of Admissions. The Director of Interdisciplinary Studies Degree Programs will notify the student of approval or denial of the application.
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. A copy of the approved program of study will be forwarded to the Registrar and will be used for checking graduation requirements.
4. Changes in the study program must be approved by the advisor.

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 from department to 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

*Accounting	Economics	*Marketing
Agriculture	Engineering Design Tech	*Mathematics
Agricultural Mechanics	English	Military Science
Agronomy	*Environmental Studies	*Music
Animal Science	*Ethnic Studies	Nursing
*Art	Family Science	*Philosophy
*Art History	*Finance	*Physical Educ & Health
*Athletic Coaching	Foreign Language	*Physics
*Athletic Training	French	Political Science
*Biology	*General Humanities	Professional Writing
*Business Systems	Geography	Psychology
*Canadian Studies	German	Public Relations
*Chemistry	*Health	*Radio/Television
COMM. Electronic Sys.	*History	*Recreation
Comp. Aided Design Draft.	Horticulture	*Recreational Arts
*Computer Science	*Human Ecology General	Sociology
Comp. Information Sys.	Journalism	Spanish
*Corrections	*Language Arts	*Speech Communications
*Criminal Justice	*Law Enforcement	*Statistics
*Driver & Safety Education	Library Science	*Theatre Arts
*Early Childhood	*Management	
* Defined minor		

DEFINED MINORS

Accounting

Non-Business Majors: ACCTG 2013, ACCTG 2123 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 2313, ART 2243, ART 2513, ART 1223 and 6 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). HLTH 3244, HLTH 3292, HLTH 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)

NOTE: This minor will meet requirements for special endorsement in Athletic Coaching. See Teacher Certification Catalog for details.

Athletic Training

(Closed to Physical Education majors who are taking the Physical Education and Athletic Training Internship Option). HLTH 2313, HLTH 3292, HLTH 3244, HLTH 3321 Training (2 hours), HLTH 4503, HLTH 4292, HLTH 4392

Additional Recommended Courses for Certification 15 hours: HLTH 3321 (4 hours), SFTY 3613, BIOL 2034, BIOL 2134

NOTE: Completion of the prescribed course work does not automatically confer status as a certified trainer. National Athletic Training Association standards must be met. Consult an HPE advisor for details.

Biology

BIOL 1364, BIOL 1474 and 10 semester hours of upper division biology courses.

Business Systems

BUS 1113, BS 2113, BS 3123, BS 3013, BS 4013, MGMT 3213

Canadian Studies

FREN 2123, HIST 3343, HUM 2413, POL SC 3483, POL SC 4053, POL SC 4063

Chemistry

CHEM 1015 & 1225 (8-10 hours) and 10-12 hours selected from CHEM 2113, 2332, 3345 OR 3314 and 3324 or other approved Chemistry courses.

Computer Science

Eighteen semester hours of computer science including a minimum of 9 semester hours at the upper division level.

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.

Driver and Safety Education

(Closed to Health and Physical Education majors with a concentration in Physical Education and Safety) SFTY 3723, SFTY 3823, SFTY 4923 and 9 hours chosen from other Safety Education courses; HLTH 2213, EDUC 3632 and/or other approved courses, workshops, seminars in traffic or safety education.

NOTE: This minor will meet requirements for a special endorsement in Driver Education. See Teacher Certification Catalog for details.

Environmental Studies

HUM 2513 and selected from the following:

GEOL 1024, GEOG 2014, BIOL 2444, GEOG 3253, SOCI 3373, ECON 4213

Ethnic Studies

HUM 2513 and 15 hours selected from the following: ANTH 1113, SPAN 1113, SPAN 1223, SOCI 3013, SOCI 3123, GEOG 3243, ENGL 3313, ENGL 3323, HIST 3343, HIST 3353, HIST 3363

Finance

Non-Business Majors:

FIN 3603, FIN 3313, FIN 3623, FIN 4333 and 6 hours of finance electives.

Business Administration and Accounting Majors: FIN 3313, FIN 3623, FIN 4333 and 9 hours of finance electives.

General Humanities

HUM 2113 or HUM 2223 and 15 hours selected from the following with no more than 6 hours with the same prefix) ART 1013, ART 2613, ART 2623, ENGL 2713, ENGL 2723, PHIL 1113, THTR 1113, MUSIC 1023, HIST 1113, HIST 1123

Health

(Closed to Health and Physical Education majors). HLTH 1053, HLTH 2213, HLTH 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)

NOTE: 24 hours in this area will meet requirements for Special Endorsement in teaching. See Teacher Certification Catalog for details.

History

HIST 1113, HIST 1123, HIST 1483, HIST 1493, and 6 hours of history electives.

Human Ecology

There are three options for the student who elects a minor in Early Childhood, Family Science, 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, ACCTG 2013, MGMT 3013, MGMT 3513 and management electives (6 hours).

Business Administration and Accounting Majors: ACCTG 3213, MGMT 3513, MGMT 3813, MGMT 4023 or MGMT 4033 and management electives (6 hours).

Marketing

MKTG 3413, BUS 1113 and marketing electives (12 hours).

Mathematics

A minimum of 18 semester hours of mathematics, computer science or statistics which must include MATH 2215 and a minimum of 6 semester hours of upper division courses permitted for the mathematics major.

Music

Band/Choir/Accomp./Orch. (4 semesters)

MUS 1413, MUS 1423, MUS 2312, MUS 2332, MUS 2201 (4 semesters)

Philosophy

PHIL 1113, PHIL 2213, PHIL 3013, PHIL 3123 and at least two of the following courses:

EDUC 3013, PHIL 4591-3, POL SC 3613, POL SC 3623, POL SC 3633, POL SC 4673, SOCI 3113

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.

NOTE: 24 hours in this area will meet requirements for a special endorsement in teaching. See Teacher Certification Catalog for details.

Physics

PHYS 1115 and PHYS 1215 or PHYS 2015 and PHYS 2025, PHYS 3003 and electives (5 hours).

Radio/Television

R/TV 1013, R/TV 2213, R/TV 2313 and R/TV electives 9 hours.

Recreation

(Closed to Health and Physical Education majors with a concentration in Physical Education and 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 MUSIC 3683 Music for the Elementary Teacher) MUSIC 1111, MUSIC 1141, MUSIC 1023

Theatre: THTR 1103, THTR 1203, THTR 1603, THTR 2603, THTR 3403

Speech Communications

COMM 1113, COMM 1133 or COMM 2313, COMM 3313 or COMM 3393 and electives 9 hours.

Statistics

A minimum of 18 semester hours of mathematics or statistics which must include MATH 2215 and a minimum of 9 semester hours of statistics excluding STAT 3003.

Theatre Arts

THTR 1103, THTR 1203, THTR 2603 and electives 9 hours.

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DON SULLIVAN	Vice President for Development
JOHN STERLING	Controller
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FACULTY AND ADMINISTRATIVE STAFF

- ADAMS-DUNFORD, JANE, (1988)** *Director, Multicultural and Disabled Services*, A.S., B.S., M.S., Cameron University.
- ADAMS, STEPHEN M., (1987)** *Communications*, B.S., M.S., Oklahoma State University.
- ADAMSKI, THOMAS, (1995)** *Military Science*, B.S., Troy State University.
- ADRIAN, PHILLIP, (1994)** *Health and Physical Education*, B.S., M.Ed., Wichita State University; Ed.D., Oklahoma State University.
- ALEXANDER, RALPH, (1984)** *Psychology and Human Ecology*, B.A., Texas Christian University; M.Ed., Ph.D., University of Oklahoma.
- ALLISON, TONY, (1972)** *Chairman, Communications*, B.A., Abilene Christian University; M.A., Southwest Texas State University.
- ALVILLAR, EDNA B., (1988)** *Director, Health Education Outreach Center*, B.S., Cameron University.
- AMYX, JACK F., (1965)** *Associate Dean, School of Graduate and Professional Studies*, B.S., M.S., Ed.D., Oklahoma State University.
- APLIN, SUZANNE, (1988)** *Director of Student Support Services*, B.A., Tarleton State University; M.A., North Texas State University.
- ARGYROS, IOANNIS K., (1990)** *Mathematical Sciences*, B.Sc., University of Athens (Greece); M.Sc., University of Georgia; Ph.D., University of Georgia.
- ATWATER, O. THOMAS, (1978)** *Politics, Sociology and Criminal Justice*, B.A., St. Mary's College of California; Ph.D., University of Notre Dame.
- AYRES, TERESA, (1994)** *Theatre Arts*, B.F.A., Southwest Missouri State University; M.F.A., University of Georgia.
- BACA, ROBERT, (1995)** *Library*, B.S., Cameron University; M.L.S., University of Oklahoma.
- BARNHART, LYNN, (1989)** *Nursing*, B.S.N., University of Oklahoma; M.S., Iowa State University; M.S.N., George Mason University.
- BARTNIK, JOSEPH M. IV, (1996)** *Computer Technician, Institute for Applied Telematics*, B.S., Cameron University.
- BAUSCH, ROBERT S., (1995)** *Politics, Sociology and Criminal Justice*, B.A., M.A., California State University-Fullerton; Ph.D., Purdue University.
- BELLIN, SUSANNE, (1992)** *Education*, B.A., Buena Vista College; M.A., A.B.D., University of Northern Colorado.
- BENNETT, ALLISON C., (1976)** *Chairman, Agriculture*, B.S., M.S., Oklahoma State University; Ph.D., Auburn University.
- BHATTACHARYA, T. K., (1990)** *Business-Finance*, B.Sc., (Eng), Banaras Hindu University; M.S. (Marketing), Dahanukar Institute of Management; Ph.D., University of Oklahoma.
- BLACKBURN, MARCY, (1993)** *Education*, B.S., Cameron University; M.Ed., Southwestern Oklahoma State University.
- BLODGETT, RALPH E., (1971)** *History and Humanities*, B.A., M.A., Ph.D., University of Colorado.
- BONNINGTON, SONDRRA, (1982)** *Education*, B.S., Texas Tech University; M.Ed., Ph.D., Texas Woman's University.
- BROOKS, NANCY, (1969)** *Business-Systems*, B.S., M.B.E., Ph.D., University of Oklahoma.
- BROWN, DEBORAH, (1977)** *Bookstore Manager/Student Union*, B.A., Cameron University.
- BROWN, LOUISE, (1987)** *Vice President for Student Affairs*, B.S. Education, University of Missouri; M.A. in Administration, University of Oklahoma.
- BRYAN, CLINTON, (1988)** *Physical Science*, B.S., University of Arkansas; M.S., University of Kansas; Ph.D., University of Arkansas.
- BRYAN, JACK, (1967)** *Art*, B.F.A., University of Oklahoma; M.A., University of Tulsa.
- BUCKLES, JANICE, (1993)** *Education*, B.S., Oklahoma State University; M.Ed., Northwestern Oklahoma State University; Ed.D., Oklahoma State University.
- BUCKLEY, GARY, (1986)** *Physical Science*, B.S., Northern Illinois University, M.S.; Ph.D., Texas A & M University.
- BUCKNER, LISA, (1996)** *Academic Coordinator/Counselor, Upward Bound*, B.A., M.S., Cameron University.

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